Author	Study Design	Sampling Sampling method	Number of sites Timing of	'data Country	rv (Country income level UNSD Region Study period	Mean or Median age	Age range (years) Male percentage Recrutment setting Setting	Type of hospital	Hospitalization	S7 Table. Individual charac	teristics of included studies	rameters taken into Num	nber of tick per pool range Study participants clinical	CCHFV suspected case CCHFV probable	e case CCHFV confirmed case	Risk of bias Species Gender (Tick) Order (Other animals) Population characteristics Mixed categories	Detec	rtion assav T	arget detected	Infection StatusSt	Sample types
Abdiyeva, 2019	Cross sectional	Non probabilistic Consecutive sampling	Number of sites Timing of collection Multicenter Prospectively	y Kazakhsta	stan U	Upper-middle-income economies Central Asia Apr/2014-Oct/2014; Apr/2015	(Years) 15-Oct/2015 Unclear/Not reported	Age range (years) Ivrate percentage Recrutiment setting Setting All ages Unclear/Not reported Unclear/Not reported Hospital-based	Unclear/Not reported	Unclear/Not reported	approach Not applicable Not applicable	pooling approach acco le Not applicable Not a	t applicable Not ap	applicable Patients with FUO were defined a baying a temperature >37.5 C (ex	definition definition as Unclear/Not reported	definition First and second serum samples with an optical density (OD)	s Low risk of bias Humans-Prevalence	Febrile patients Febrile patients	Indirect	ct ELISA Ig	G	Past infection Status San	Serum
														for more than 3 days and by exclusion of rheumatic diseases.		difference of 0.3 were considered to indicate IgG from a previous infection. All other sera were	ed s						
																titrated in log2 steps (1:100, 1:2 up to 1:3200). A four-fold titre change was considered to indic	200, Pate						
Adam, 2013 Ahmed, 2019 Ahmeti, 2019	Cross sectional Community outbreak	Probabilistic Multistage sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	Multicenter Prospectively Multicenter Prospectively Monocenter Petrospectively	y Sudan y Sudan y Sudan	L L L L L	Low-income economies Northern Africa Unclear/Not reported Low-income economies Northern Africa Aug/2015-Feb/2016 Upper middle income economies UNSD uncleasified 2013 2016	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based All ages 84.4 Unclear/Not reported Hospital based	Not applicable (if not in the hospital) Unclear/Not reported Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable Not applicab Not applicable Not applicab	le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap t applicable Not applicable	applicable Not applicable applicable Unclear/Not reported Unclear/Not reported	Not applicable Not applicable Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	acute infection. Unclear/Not reported Unclear/Not reported	Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Humans-Prevalence Image: CEP	Cattle Patient with hemorrhagic symptoms Positive among CCHEV suspected cases	Indirect Indirect Real Ti	ct ELISA Ig ct ELISA Ig Time BT PCP V	G M iral RNA	Past infection Ser Recent infection Se Current infection U	erum Serum
Akuffo, 2016 Akuffo, 2016 Akuffo, 2016 Akuffo, 2016	Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	Molecenter Readspective Multicenter Prospectively Multicenter Prospectively Multicenter Prospectively	y Ghana y Ghana y Ghana		Lower-middle income economiesWest AfricaMay/2011-Nov/2011Lower-middle income economiesWest AfricaMay/2011-Nov/2011Lower-middle income economiesWest AfricaMay/2011-Nov/2011	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable All samples were transported to US Unclear/ Not	Not applicable Not a le Not applicable Not a le Not applicable Not a reported After identification, the Speci	t applicable Not ap t applicable Not ap t applicable Not ap eccies, source of capture, Uncles	applicable Not applicable Not applicable applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence Moderate risk of bias Tick pools	High risk individuals High risk individuals Positive tick pool species Ambylomma variegatum, Hyalomma e	excavatum Classic	ct ELISA Ig ct ELISA Ig cla RT-PCR V	G M iral RNA	Past infection Ser Recent infection Ser Current infection Ti	erum Ficks
				-							Naval Medical Research Unit No. 3 in Cairo, Egypt, for taxonomic identification using the African Ixodidae	ticks were grouped into pools by species, sex, and animal source.	nder										
Al Adhamy, 1992	Cross sectional	Non probabilistic Consecutive sampling	Multicenter Prospectively	y Iraq	L	Upper-middle-income economies Western Asia Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Urban Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	key [3]. Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Humans-Prevalence	Mixed human categories Patient with hemorrhagic symptoms, C contact	CCHFV positive case Comple	lement fixation test A	ntibodies	Past infection Ser	erum
Al Adhamy, 1992 Alam, 2013	Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	Multicenter Prospectively Monocenter Retrospective	y Iraq rely Pakistan	L L	Upper-middle-income economiesWestern AsiaUnclear/Not reportedLower-middle income economiesSouthern AsiaSep/2008-Oct/2008	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Urban Community-based All ages Unclear/Not reported Unclear/Not reported Hospital-based	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable Not applicab Not applicable Not applicab	le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap	applicable Not applicable applicable Unclear/Not reported	Not applicable Not applicable Standard case definitions were practiced as laid by the World A "probable" case is d any patient with acute	Unclear/Not reported defined when Unclear/Not reported history of	Moderate risk of bias Other animals Animal unspecified Moderate risk of bias Humans-Prevalence Image: Comparison of	Animal unspecified CCHFV suspected cases	Comple Enzyme	lement fixation test A ne immunoassay Ig	ntibodies M	Past infectionSenRecent infectionSer	erum
															Health Organization. A "suspected" case is defined as any patient with sudden onset of illness thrombocytopenia less	ays or less s than							
															for more than 72 hours and less than 10 days, especially in CCHF andomic arrays and among those in	ence of any petechial or is,							
															contact with sheep or other livestock.	gum norrhagic							
															"confirmed" case is m probable case with po diagnosis of CCHE ma	nagliosis of a nade if any sitive arkers in							
															blood sample such as IgG or IgM antibodies and/or detection of vir	presence of s in serum ral nucleic							
Alam, 2017 Albayrak, 2010	Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Capture	Multicenter Prospectively Multicenter Prospectively	y Pakistan y Turkey	L. I.	Lower-middle income economies Southern Asia Jan/2011-Mar/2017 Upper-middle-income economies Western Asia May/2008-Jul/2008	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Unclear/Not reported Not applicable (if not in the hospital)	Unclear/Not reported	Not applicable Not applicab Unclear/Not reported No	le Not applicable Not a They were pooled Size	t applicable Not ap	applicable Unclear/Not reported Not applicable	acid in specimen. Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Individual tick	CCHFV suspected cases Hyalomma aegyptium	Real Ti	Time RT-PCR V	iral RNA	Current infection Ur	Jnclear/Not reported
												according to size and pools ranged from 1 to 20 ticks.											
Albayrak, 2010	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Turkey	L	Upper-middle-income economies Western Asia May/2008-Jul/2008	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Unclear/ Not reported No	They were pooled Size, according to size and pools ranged from 1 to 20	e, Species 1-20	Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma anatolicum	Direct I	ELISA V	iral antigen	Current infection Ticl	icks
Albayrak, 2010	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Turkey	τ	Upper-middle-income economies Western Asia May/2008-Jul/2008	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Unclear/ Not reported No	ticks. They were pooled Size, according to size and	e, Species 1-20	Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Tick pools	Positive tick pool species Dermacentor marginatus, Hyalomma of Hyalomma marginatum marginatum, F	detritum, Ixodes ricinus, Direct I Rhipicephalus bursa,	ELISA	iral antigen	Current infection Tic	.'icks
Albayrak, 2010	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Turkey	Ľ	Upper-middle-income economies Western Asia May/2008-Jul/2008	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Unclear/ Not reported Unclear/ Not	reported Ticks were pooled Size,	e, Species 1-20	Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Tick pools	Positive tick pool species Hyalomma anatolicum excavatum, Hy	yalomma anatolicum Direct I	ELISA	iral antigen	Current infection Ti	
												according to size and pools ranged from 1–20 ticks.						anatolicum, Hyalomma detritum, Ixod bursa, Hyalomma marginatum margina turanicus	des ricinus, Rhipicephalus natum, Rhipicephalus				
Albayrak, 2012	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Turkey	L	Upper-middle-income economies Western Asia Mar/2009-jul/2009	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	After identification using standard keys, No	They were pooled Size, according to size and pools ranged from one to	e, Species 1-20	Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Dermacentor	Dermacentor marginatus	Classic	cal RT-PCR V	iral RNA	Current infection Tick	cks
Albayrak, 2012	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Turkey	L	Upper-middle-income economies Western Asia Mar/2009-jul/2009	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	After identification using standard keys, No	They were pooled Size, according to size and	e, Species 1-20	Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Haemaphysalis	Haemaphysalis punctata	Classic	cal RT-PCR V	iral RNA	Current infection Tic'	icks
Albayrak, 2012	Cross sectional	Non probabilistic Consecutive sampling	Multicenter Prospectively Multicenter Prospectively	y Turkey	L	Upper-middle-income economies Western Asia Mar/2009-jul/2009	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable	20 ticks le Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Other animals Artiodactyla Moderate rick of bias Other animals Artiodactyla	Goat		ct ELISA Ig	G	Past infection Se	serum
Albayrak, 2012 Albayrak, 2012 Albayrak, 2012 Albayrak, 2012	Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	Multicenter Prospectively Multicenter Prospectively Multicenter Prospectively	y Turkey y Turkey y Turkey		Upper-middle-income economies Western Asia Mat/2009-jul/2009 Upper-middle-income economies Western Asia Mar/2009-jul/2009 Upper-middle-income economies Western Asia Mar/2009-jul/2009 Upper-middle-income economies Western Asia Mar/2009-jul/2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	le Not applicable Not a le Not applicable Not a le Not applicable Not a They were pooled Size	t applicable Not applicable Not applicable 1-20	applicable Not applic	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Tick pools Artiodactyla	Sheep Sheep Positive tick pool species Rhipicenhalus turanicus. Hyalomma m	Indirect Classic marginatum marginatum Classic	ct ELISA Ig cal RT-PCR V cal RT-PCR V	G iral RNA iral RNA	Past infection Ser Current infection Ser Current infection Ti	erum berum Ticks
				,								according to size and pools ranged from one to 20 ticks	.,					Rhipicephalus bursa, Hyalomma detrit	itum				
Almasri, 2019 Al-Nakib, 1984	Cross sectional Cross sectional	Non probabilisticConsecutive samplingProbabilisticSimple random sampling	MonocenterProspectivelyMulticenterProspectively	y Saudi Ara y Kuwait	rabia H.	High-income economiesWestern AsiaOct/2013High-income economiesWestern AsiaDec/1979-Oct/1982	37 Unclear/Not reported	Unclear/Not reported100Unclear/Not reportedCommunity-basedAll ages54.29UrbanHospital-based	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicableNot applicabNot applicableNot applicab	le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap	applicable Not applicable unclear/Not reported	Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Low risk of bias Humans-Prevalence	High risk individuals Apparently healthy individuals, Patient fever diseases	Real Ti nt with illnesses other than Comple	Time RT-PCR Vi lement fixation test; Immunoflorescent assay A	iral RNA ntibodies	Current infectionSerPast infectionSer	erum
Altaf, 1998 Altaf, 1998 Andriamandimby, 2011	Community outbreak Community outbreak Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	MulticenterRetrospectiveMulticenterRetrospectiveNationally representativeProspectively	rely Pakistan rely Pakistan y Madagasa	L scar L	Lower-middle income economiesSouthern AsiaDec/1994-Jan/1995Lower-middle income economiesSouthern AsiaDec/1994-Jan/1995Low-income economiesEastern AfricaSep/2008-May/2009	Unclear/Not reported Unclear/Not reported 34	Unclear/Not reportedUnclear/Not reportedUrbanHospital-basedUnclear/Not reportedUnclear/Not reportedUrbanCommunity-basedAll agesUnclear/Not reportedUrban/ruralCommunity-based	General Hospital and khan university Hospital General Hospital and khan university Hospital Not applicable (if not in the hospital)	Hospitalized Ambulatory Not applicable (if not in the hospital)	Not applicableNot applicabNot applicableNot applicabNot applicableNot applicab	le Not applicable Not a le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap t applicable Not ap	applicableNot applicableapplicableNot applicableapplicableNot applicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasHumans-PrevalenceModerate risk of biasHumans-PrevalenceModerate risk of biasHumans-Prevalence	CCHFV positive case contact Healtcare workers High risk individuals	Indirect Indirect Indirect	ct ELISA Ig ct ELISA Ig ct ELISA Ig	M and IgG M and IgG G	Past infectionSenPast infectionSerPast infectionSe	srum erum Serum
Andriamandimby, 2011 Antoniadis, 1982 Aslani, 2017	Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	Nationally representative Prospectively Multicenter Prospectively Monocenter Prospectively	y Madagasc y Greece y Iran	scar L H U	Low-income economiesEastern AfricaSep/2008-May/2009High-income economiesSouthern Europe1980-1981Upper-middle-income economiesSouthern Asia2000-2016	34 Unclear/Not reported Unclear/Not reported	All ages Unclear/Not reported Urban/rural Community-based Unclear/Not reported Unclear/Not reported Rural Community-based Child: Birth-18 years Unclear/Not reported Unclear/Not reported Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicable	leNot applicableNot aleNot applicableNot aleNot applicableNot a	t applicable Not ap t applicable Not ap t applicable Not ap	applicableNot applicableapplicableNot applicableapplicableUnclear/Not reported	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence	High risk individuals Apparently healthy individuals CCHFV suspected cases	Indirect Hemag Classic	ct ELISAIggglutination inhibition test; Immunoflorescent assayAical RT-PCRVi	M ntibodies iral RNA	Recent infection Servent Past infection Servent Current infection Servent	erum erum Serum
Aslani, 2017 Athar, 2005 Aykut, 2007	Cross sectional Hospital outbreak Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConvenience samplingNon probabilisticCapture	Monocenter Prospectively Monocenter Prospectively Multicenter Prospectively	y Iran y Pakistan y Turkey	L L L	Upper-middle-income economiesSouthern Asia2000-2016Lower-middle income economiesSouthern AsiaFeb/2002Upper-middle-income economiesWestern AsiaMay/2005-Aug/2005, May/20	Unclear/Not reported Unclear/Not reported 2006-Aug/2006 Unclear/Not reported	Child: Birth-18 years Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Unclear/Not reported Unclear/Not reported Not applicable (if not in the hospital)	Unclear/Not reported Hospitalized Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Unclear/ Not reported Unclear/ Not	le Not applicable Not a le Not applicable Not a reported The identified ticks were Speci	t applicableNot applicablet applicableNot applicableeccies, source of capture,8-20	applicable Unclear/Not reported applicable Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence Moderate risk of bias Individual tick Haemaphysalis Haemaphysalis	CCHFV suspected cases CCHFV positive case contact Haemaphysalis sulcata	Indirect Indirect Classic	ct ELISA Ig ct ELISA Ig cal RT-PCR V	M M and IgG iral RNA	Recent infection Servention Past infection Servention Current infection Tivention	erum ficks
												8–20 according to species, host, and geographic	graphic origin										
Aykut, 2007	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Turkey	U	Upper-middle-income economies Western Asia May/2005-Aug/2005, May/20	2006-Aug/2006 Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Unclear/ Not reported Unclear/ Not	reported The identified ticks were Speci pooled into groups of geogr	ecies, source of capture, 8-20 ographic origin	Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma anatolicum	Classic	cal RT-PCR V	iral RNA	Current infection Tic ⁷	icks
Aykut, 2007	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Turkev		Upper-middle-income economies Western Asia Mav/2005-Aug/2005 Mav/200	2006-Aug/2006 Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Unclear/ Not reported Unclear/ Not	reported The identified ticks were Species	ecies, source of capture. 8-20	Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Tick pools	Positive tick pool species Boophylus annulatus Rhinicephalus b	bursa, Hyalomma Classic	cal RT-PCR	iral RNA	Current infection	<u>Ficks</u>
									• *	(and nospital)		pooled into groups of 8–20 according to species, host, and geographic	ographic origin			ported		marginatum marginatum					
Azagi, 2017	Cross sectional	Non probabilistic Capture	Monocenter Prospectively	y Israel	H	High-income economies Western Asia 2011-2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Ticks were morphologically identified using taxonomic keys (1, 53–55),Unclear/ Not	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma aegyptium	Real Ti	Time RT-PCR V	iral RNA	Current infection Tic	licks
Azagi, 2017 Azagi, 2017	Cross sectional Cross sectional	Non probabilistic Capture Non probabilistic Capture	Monocenter Prospectively Monocenter Prospectively	y Israel y Israel	H H	High-income economiesWestern Asia2011-2015High-income economiesWestern Asia2011-2015	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Ticks were morphologically identified using taxonomic keys (1, 53–55),Unclear/ NotTicks were morphologically identifiedUnclear/ Not	reported Not applicable Not a reported Not applicable Not a	t applicable Not applicable Not applicable Not applicable	applicable Not applicable applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma Moderate risk of bias Individual tick Hyalomma	Hyalomma dromedarii Hyalomma marginatum	Real Ti Real Ti	Time RT-PCR V	iral RNA	Current infection Ticl Current infection Ti	īcks Ficks
Azagi, 2017	Cross sectional	Non probabilistic Capture	Monocenter Prospectively	y Israel	E	High-income economies Western Asia 2011-2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	using taxonomic keys (1, 53–55),Ticks were morphologically identified using taxonomic keys (1, 53–55),	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma rufipes	Real Ti	Time RT-PCR V	iral RNA	Current infection Tic	icks
Bakir, 2012	Cross sectional	Non probabilistic Consecutive sampling	Monocenter Prospectively	y Turkey	τ	Upper-middle-income economies Western Asia Jun/2009-Sept/2010	52	All ages 59.91 Urban Hospital-based	Tertiary hospital	Hospitalized	Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Definitive diagnosis of CCHF infection was based upon typica clinical and epidemiological	al Low risk of bias Humans-Prevalence	CCHFV suspected cases	Classic	cal RT-PCR, Indirect ELISA Ig	M, Viral RNA	Current infection Seru	rum
																findings; by detection of CCHF virus-specific IgM by enzyme- linked							
																immunosorbent assay (ELISA); and/or by detection of genomic segments of the CCHF virus	;						
																polymerase chain reaction (RT- PCR) either in the acute and	n- -						
Bakir, 2012	Cross sectional	Non probabilistic Consecutive sampling	Monocenter Prospectively	y Turkey	τ	Upper-middle-income economies Western Asia Jun/2009-Sept/2010	52	All ages 59.91 Urban Hospital-based	Tertiary hospital	Hospitalized	Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Definitive diagnosis of CCHF	Low risk of bias Humans-CFR	Positive among CCHFV suspected cases	Classic	cal RT-PCR, Indirect ELISA Ig	M, Viral RNA	Current infection Se	Serum
																clinical and epidemiological findings; by detection of CCHF							
																linked immunosorbent assay (ELISA);	;						
																segments of the CCHF virus revealed by reverse transcriptio	n-						
																PCR) either in the acute and convalescent phase of the disea	ise.						
Bakır, 2015	Cross sectional	Non probabilistic Consecutive sampling	Multicenter Prospectively	y Turkey	τ	Upper-middle-income economies Western Asia Apr/2012-Sep/2012	47	All ages 58.7 Urban Hospital-based	Unclear/Not reported	Hospitalized	Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported	detection of CCHF virus specifi IgM by enzyme-linked	ic Moderate risk of bias Humans-CFR	Positive among CCHFV suspected cases	Classic	cal RT-PCR, Indirect ELISA Ig	M, Viral RNA	Current infection Ser	erum
																immunosorbent assay (ELISA) and/or by detection of genomic segments of the CCHI	F						
																polymerase chain reaction (RT- PCR) in the acute phase of the							
Bakir, 2016	Cross sectional	Non probabilistic Consecutive sampling	Monocenter Prospectively	y Turkey	τ	Upper-middle-income economies Western Asia Jun/2013-Sep/2013	45.9	Unclear/Not reported 56.94 Urban Hospital-based	Tertiary hospital	Hospitalized	Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported	The diagnosis was based on detection of CCHF virus RNA	by Moderate risk of bias Humans-CFR	Positive among CCHFV suspected cases	Classic	cal RT-PCR, Indirect ELISA Ig	M, Viral RNA	Current infection Ser	erum
																chain reaction and/or CCHFV- specific IgM antibodies by ELI	SA						
Balinandi, 2018	Cross sectional	Probabilistic Capture	Multicenter Prospectively	y Uganda	L	Low-income economies Eastern Africa Nov/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	The collected ticks were identified by experienced laboratory personnel using morphological keys (Walker et al	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Rhipicephalus	Boophilus decoloratus	Real Ti	Time RT-PCR V	iral RNA	Current infection Tic'	icks
Balinandi, 2018	Cross sectional	Probabilistic Capture	Multicenter Prospectively	y Uganda	L	Low-income economies Eastern Africa Nov/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	2003) The collected ticks were identified by experienced laboratory personnel using	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma truncatum	Real Ti	Time RT-PCR V	iral RNA	Current infection Tie	licks
Barthel, 2014	Cross sectional	Non probabilistic Consecutive sampling	Multicenter Prospectively	v Bulgaria	u U	Upper-middle-income economies Eastern Europe Sep/2011	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	morphological keys (Walker et al., 2003) Not applicable Not applicab	le Not applicable Not a	t applicable Not ar	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Other animals Artiodactyla	Cattle	Indirect	ct ELISA Ig	G	Past infection Se	Serum
Barthel, 2014 Barthel, 2014 Batool, 2009	Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	Multicenter Prospectively Multicenter Prospectively Monocenter Retrospective	y Bulgaria y Bulgaria rely Iran		Upper-middle-income economiesEastern EuropeSep/2011Upper-middle-income economiesEastern EuropeSep/2011Upper-middle-income economiesSouthern Asia1999-2003; 2005-2007	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Rural Community-based Unclear/Not reported Unclear/Not reported Rural Community-based Unclear/Not reported Unclear/Not reported Rural Community-based Unclear/Not reported Unclear/Not reported Urban Hospital-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Hospitalized	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Initial Not applicable Not a le Not applicable Not a le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap t applicable Not ap	applicable Not applicable applicable Not applicable upplicable Unclear/Not reported	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported The disease was confirmed by	Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Other animals Artiodactyla Low risk of bias Humans-CFR Image: CFR	Goat Sheep Positive among CCHFV suspected cases	Indirect Indirect Classic	ct ELISA Ig ct ELISA Ig cal RT-PCR, Indirect ELISA A	G G ntibodies, Viral RNA	Past infection Servent Past infection Sevent Current infection Sevent	erum Serum
																Enzyme-Linked ImmunoSorber Assay (ELISA) and Reverse transcriptionpolymerase chain	nt						
Baumann, 2019 Bayram, 2017	Cross sectional Cross sectional	Non probabilistic Consecutive sampling Probabilistic Cluster sampling	Multicenter Prospectively Multicenter Prospectively	y Mali y Turkey	L	Low-income economiesWest AfricaApr/2016-May2017Upper-middle-income economiesWestern AsiaJan/2012-Jul/2012	Unclear/Not reported Unclear/Not reported	Child: Birth-18 yearsUnclear/Not reportedUrbanHospital-basedAll ages29.1Unclear/Not reportedCommunity-based	Univerty Hospital Gabriel Touré; Pediatric ward Hôspital du Mali Not applicable (if not in the hospital)	Hospitalized Not applicable (if not in the hospital)	Not applicable Not applicab Not applicable Not applicab	le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap	applicable Unclear/Not reported applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	reaction (RT-PCR) technique Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence	Febrile patients High risk individuals	Classic Indirect	cal RT-PCR V ct ELISA Ig	iral RNA G	Current infection Ser Past infection Se	jerum Serum
Bazanów, 2017	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Poland	H	High-income economies Eastern Europe 2012–2013	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Ticks were preserved and identified to species using standard methods (Siuda 1993).	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Dermacentor	Dermacentor reticulatus	Real Ti	Time RT-PCR V	iral RNA	Current infection Ticl	.cks
Bazanów, 2017	Cross sectional	Non probabilistic Capture	Multicenter Prospectively	y Poland	H	High-income economies Eastern Europe 2012–2013	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Ticks were preserved and identified to species using standard methods (Siuda 1993).Unclear/ Not	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Ixodes	Ixodes ricinus	Real Ti	Time RT-PCR V	iral RNA	Current infection Tick	.cks
Bazanów, 2017 Behrooz, 2006 Belet, 2014	Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	Multicenter Prospectively Monocenter Prospectively Monocenter Prospectively	y Poland y Iran y Turkey	E E E E E E E E E E E E E E E E E E E	High-income economiesEastern Europe2012–2013Upper-middle-income economiesSouthern Asia2010-2011Upper-middle-income economiesWestern AsiaMay/2008-Sep/2011.	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Hospitalized	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicable	le Not applicable Not a le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap t applicable Not ap	applicableNot applicableapplicableNot applicableapplicableUnclear/Not reported	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasHumans-PrevalenceImage: Comparison of the second	Bovine Sheep CCHFV suspected cases	Indirect Indirect Classic	ct ELISA Ig ct ELISA Ig cal RT-PCR V	G G iral RNA	Past infection Servent Past infection Servent Current infection Servent	erum erum Serum
Belet, 2014 Belet, 2014 Belet, 2014	Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	Monocenter Prospectively Monocenter Prospectively Monocenter Prospectively Monocenter Prospectively	y Turkey y Turkey y Turkey	ل ل ل ل	Upper-middle-income economiesWestern AsiaMay/2008-Sep/2011.Upper-middle-income economiesWestern AsiaMay/2008-Sep/2011.Upper-middle-income economiesWestern AsiaMay/2008-Sep/2011.	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Hospitalized Hospitalized Hospitalized	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicable	le Not applicable Not a le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap t applicable Not ap	applicable Unclear/Not reported applicable Unclear/Not reported applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-CFR Moderate risk of bias Humans-CFR	CCHFV suspected cases Positive among CCHFV suspected cases Positive among CCHFV suspected cases	Indirect Indirect Classic	ct ELISA Ig ct ELISA Ig cal RT-PCR V	M M iral RNA	Recent infection Service Recent infection Service Current infection Service	erum erum Serum
Biglari, 2016	Cross sectional	Probabilistic Capture	Multicenter Prospectively	y Iran	L	Upper-middle-income economies Southern Asia Jul/2014-Jun/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	A total of 492 ticks were collected and kept alive in separate labeled vials and then transferred to the Medical	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Haemaphysalis	Haemaphysalis sulcata	Classic	cal RT-PCR V	iral RNA	Current infection Tick	cks
											Public Health, Tehran University for morphological identification and sex determination using the low of Datas here												
Biglari, 2016	Cross sectional	Probabilistic Capture	Multicenter Prospectively	y Iran	Ľ	Upper-middle-income economies Southern Asia Jul/2014-Jun/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Pen [°] a et al. 2004. A total of 492 ticks were collected and hert align in accent labeled with and	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma anatolicum	Classic	cal RT-PCR V	iral RNA	Current infection Tir	ficks
											then transferred to the Medical Entomology Laboratory, School of Public Health, Tehran University for												
											morphological identification and sex determination using the key of Estrada- Pen [°] a et al. 2004.												
Biglari, 2016	Cross sectional	Probabilistic Capture	Multicenter Prospectively	y Iran	U	Upper-middle-income economies Southern Asia Jul/2014-Jun/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	A total of 492 ticks were collected and Unclear/ Not kept alive in separate labeled vials and then transferred to the Medical	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma asiaticum	Classic	cal RT-PCR V	iral RNA	Current infection Tic'	.cks
											Entomology Laboratory, School of Public Health, Tehran University for morphological identification and sex												
Biglari, 2016	Cross sectional	Probabilistic Capture	Multicenter Prospectively	y Iran		Upper-middle-income economies Southern Asia Jul/2014-Jun/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	determination using the key of Estrada- Pen~a et al. 2004.A total of 492 ticks were collected and Unclear/ Not	reported Not applicable Not a	t applicable Not ar	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma species	Classic	cal RT-PCR V	iral RNA	Current infection T _i	ſicks
											kept alive in separate labeled vials and then transferred to the Medical Entomology Laboratory, School of												
											morphological identification and sex determination using the key of Estrada- Pen ⁻ a et al. 2004												
Biglari, 2016	Cross sectional	Probabilistic Capture	Multicenter Prospectively	y Iran	U	Upper-middle-income economies Southern Asia Jul/2014-Jun/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	A total of 492 ticks were collected and kept alive in separate labeled vials and then transferred to the Medical	reported Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Rhipicephalus	Rhipicephalus sanguineus	Classic	cal RT-PCR V	iral RNA	Current infection Tic	icks
											Entomology Laboratory, School of Public Health, Tehran University for morphological identification and sex												
Bilgin, 2014	Cross sectional	Non probabilistic Consecutive sampling	Monocenter Retrospective	rely Turkey	τ	Upper-middle-income economies Western Asia Apr/2008-Sep/2011	51.4	Adults: 19+ years 51.6 Urban/rural Hospital-based	Unclear/Not reported	Hospitalized	determination using the key of Estrada- Pen [°] a et al. 2004. Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Humans-CFR	Positive among CCHFV suspected cases	Classic	cal RT-PCR, Indirect ELISA Ig	M, Viral RNA	Current infection Se	Serum
Blackburn, 1982 Bob, 2017	Cross sectional Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive sampling	MulticenterProspectivelyMulticenterProspectively	y Zimbabw y Mauritani	we L nia L	Lower-middle income economiesEastern AfricaUnclear/Not reportedLower-middle income economiesWest AfricaSep/2015-Nov/2015	Unclear/Not reported 25	Child: Birth-18 yearsUnclear/Not reportedUnclear/Not reportedCommunity-basedAll ages76.6Unclear/Not reportedHospital-based	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicableNot applicabNot applicableNot applicab	le Not applicable Not a le Not applicable Not a	t applicable Not ap t applicable Not ap	applicable Not applicable applicable After the RVF outbreak declaration, investigations were	Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence	Apparently healthy individuals CCHFV suspected cases	Indirect Classic	ct immunofluorescence assay Ai cal RT-PCR V	ntibodies iral RNA	Past infectionSenCurrent infectionSer	erum
														performed, and the following cas definition was used: patient consulting with an axillary	se								
														temperature >37.5°C lasting for 4 hours, associated with at least 1 of the following signs: exhaustion,	of								
														back pain, myalgia, headache, nausea/vomiting, diarrhea and/or cutaneous bleeding, bleeding to	r								
Rob 2017	Carrier and the	Non probabilistic - C	Multiconter	V	nia	Lower-middle income sconomics		All ages 76.6	Unclear/Not reported	Linology/NT-tory	Not applicable	P Not and 1	tapplicable	applicable	Unclear/Not reported	I Inclusion 27	Moderate risk of bigs Humans Drawland	CCHEV suspected cases		ct ELISA	M	Depart in Court	Sortim
Bob, 2017	Cross sectional	Non probabilistic Consecutive sampling	Multicenter Prospectively	y Mauritani	nia L	Lower-middle income economies West Africa Sep/2015-Nov/2015	25	All ages 76.6 Unclear/Not reported Hospital-based	Unclear/Not reported	Unclear/Not reported	Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable After the RVF outbreak declaration, investigations were performed, and the following cas	se Unclear/Not reported Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Humans-Prevalence	CCHFV suspected cases	Indirect	ct ELISA Ig	М	Recent infection Serv	rum
														definition was used: patient consulting with an axillary temperature >37.5°C lasting for 4	48 of								
														hours, associated with at least 1 of the following signs: exhaustion, back pain, myalgia, headache,	r								
														nausea/vomiting, diarrhea and/or cutaneous bleeding, bleeding to bite sites, epistaxis, gingival bleeding, or other bleeding									
Bodur, 2012 Bokaie 2009	Cross sectional	Probabilistic Stratified sampling	Monocenter Prospectively	y Turkey	L	Upper-middle-income economies Western Asia Jan/2009–Apr/2009 Upper-middle-income economies Southern Asia Dat/2001 Dat/2001	44.3	Adults: 19+ years 49 Rural Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital)	Not applicable Not applicable	le Not applicable Not a	t applicable Not ap	applicable Not applicable	Not applicable Not applicable Unclear/Not reported A state	Unclear/Not reported	Low risk of bias Humans-Prevalence Low risk of bias Humans-Prevalence	Apparently healthy individuals Patient with hemorrhagic symptoms	Indirect	ct ELISA Ig	G iral RNA	Past infection Se	Jerum Serum
	Sector accuonal	r convenience sampling	Prospectively	- Iran				Unclear/Not reported	·····		Not applicab	Not a	In the second se	Unclear/Not reported	A probable human cas defined as an acutely i with clinically observe symptoms of acute or	ed signs and set of fever,			Classic			Serv	
															myalgia and bleeding; epidemiological risk fa laboratory data such a	actors and/or is							
Bokaie, 2008	Cross sectional	Non probabilistic Convenience sampling	Nationally representative Prospectively	y Iran	t	Upper-middle-income economies Southern Asia Oct/2001-Dec/2007	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Not applicable Not applicab	le Not applicable Not a	t applicable Not ar	applicable Unclear/Not reported	thrombocytopenia and Unclear/Not reported A probable human case	se was Unclear/Not reported	Low risk of bias Humans-Prevalence	Patient with hemorrhagic symptoms	Indirect	ct ELISA Ig	G	Past infection Se	Serum
															defined as an acutely i with clinically observe symptoms of acute on	ed signs and set of fever,							
															myalgia and bleeding; epidemiological risk fa laboratory data such a	actors and/or is							
Bokaie, 2008	Cross sectional	Non probabilistic Convenience sampling	Nationally representative Prospectively	y Iran	t	Upper-middle-income economies Southern Asia Oct/2001-Dec/2007	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Not applicable Not applicab	le Not applicable Not a	t applicable Not ap	applicable Unclear/Not reported	Unclear/Not reported A probable human cas	se was Unclear/Not reported	Low risk of bias Humans-Prevalence	Patient with hemorrhagic symptoms	Indirect	ct ELISA Ig	М	Recent infection Se	serum
															defined as an acutely i with clinically observe symptoms of acute on	ed signs and set of fever,							
															epidemiological risk fa laboratory data such a thrombosytoponic or d	actors and/or s 1 leucopenia.							

Bokaie, 2008	Cross sectional	Non probabilistic Convenience sampling Nationall	y representative Prospectively	Iran	Upper-middle-income economies Southern Asia Oct/2001-Dec/2007	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not repo	orted Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	A probable human case was	Unclear/Not reported Low risk of bias	Humans-CFR		Positive among patient with hemorrhagic symptoms		Indirect ELISA	IgG	Past infection Serum
																	with clinically observed signs symptoms of acute onset of fe	nd er,							
																	epidemiological risk factors and laboratory data such as thrombocytopenia and leucope	d/or nia.							
Bokaie, 2008	Cross sectional	Non probabilistic Convenience sampling National	y representative Prospectively	Iran	Upper-middle-income economies Southern Asia Oct/2001-Dec/2007	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	orted Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	A probable human case was defined as an acutely ill person	Unclear/Not reported Low risk of bias	Humans-CFR		Positive among patient with hemorrhagic symptoms		Indirect ELISA	IgM	Recent infection Serum
																	with clinically observed signs symptoms of acute onset of fe myalgia and bleeding;	nd er,							
																	epidemiological risk factors an laboratory data such as thrombocytopenia and leucope	d/or nia.							
Bokaie, 2008 Bokaie, 2008	Cross sectional Cross sectional	Non probabilistic Convenience sampling Nationall Non probabilistic Convenience sampling Nationall Non probabilistic Convenience sampling Nationall	y representative Prospectively y representative Prospectively	Iran Iran	Upper-middle-income economies Southern Asia Oct/2001-Dec/2007 Upper-middle-income economies Southern Asia Oct/2001-Dec/2007	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital) d Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	e Not applicable e Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias	Other animals Other animals	Artiodactyla Artiodactyla	Goat Sheep		Indirect ELISA Indirect ELISA	IgG IgG	Past infection Serum Past infection Serum
Bonney, 2013	Cross sectional	Non probabilistic Consecutive sampling Multicent	Prospectively	Ghana	Lower-middle income economies West Africa 2008-2011	23.5	Unclear/Not reported	67.8 Unclear/Not reported Hospital-based	Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Criteria for including patients were severe illness with fever or history of fever and at least one of the following conditions: hemorrhage	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Low risk of bias	Humans-Prevalence		Patient with hemorrhagic symptoms		Classical RT-PCR	Viral RNA	Current infection Serum
															jaundice, encephalopathy, renal involvement, absence of malaria, and lack of response to antibiotics										
															and antimalarials. These criteria also include symptoms of severe liver disease due to viral hepatitis										
															A, B, C, and E (jaundice, hepatic encephalopathy, bleeding due to impaired synthesis of coagulation										
															factors, and renal failure due to hepatorenal syndrome).										
D 1000																									
Botros, 1989	Community outbreak	Non probabilistic Consecutive sampling Monocen	ter Prospectively	Somalia	Low-income economies Eastern Africa Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not repo	orted Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Sera were diluted twofold, starting with a 1:10 dilution, and those reacting at rl:40 dilution by the IFA	Humans-Prevalence		Febrile patients		Hemagglutination inhibition test; Indirect immunofluorescence assay	Antibodies	Past infection Serum
Bower, 2019	Community outbreak	Non probabilistic Consecutive sampling Multicent	ter Retrospectively	Sudan	Low-income economies Northern Africa Unclear/Not reported	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not reported Unclear/Not reported	orted Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Case definition used in the field	Unclear/Not reported	Unclear/Not reported	and HI tests were considered positive. Samples were considered to be Moderate risk of bias	Humans-Prevalence		Febrile patients		Classical RT-PCR	Viral RNA	Current infection Serum
															during the Darfur outbreak. Fever and bleeding, particularly: epistaxis, vomiting blood, bleeding			positive if their OD450nm was greater than or equal to this cut-off value.							
															gums, bloody diarrhoea, associated with any of the followig: headache, joint pain, loss appetite, jaundice,										
															conjunctivitis, loss of consciousness, skin rash.										
Bower, 2019	Community outbreak	Non probabilistic Consecutive sampling Multicent	er Retrospectively	Sudan	Low-income economies Northern Africa Unclear/Not reported	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not reported Unclear/Not repo	orted Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Case definition used in the field during the Darfur outbreak. Fever and bleeding, particularly:	Unclear/Not reported	Unclear/Not reported	Samples were considered to be positive if their OD450nm was greater than or equal to this cut-off	Humans-Prevalence		Febrile patients		Indirect ELISA	IgG	Past infection Serum
															epistaxis, vomiting blood, bleeding gums, bloody diarrhoea, associated with any of the followig: headache,			value.							
															joint pain, loss appetite, jaundice, conjunctivitis, loss of consciousness, skin rash.										
Bower, 2019	Community outbreak	Non probabilistic Consecutive sampling Multicent	er Retrospectively	Sudan	Low-income economies Northern Africa Unclear/Not reported	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not reported Unclear/Not reported	orted Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Case definition used in the field during the Darfur outbreak. Fever	Unclear/Not reported	Unclear/Not reported	Samples were considered to be positive if their OD450nm was	Humans-Prevalence		Febrile patients		Indirect ELISA	IgM	Recent infection Serum
															and bleeding, particularly: epistaxis, vomiting blood, bleeding gums, bloody diarrhoea, associated			greater than or equal to this cut-off value.							
															with any of the followig: headache, joint pain, loss appetite, jaundice, conjunctivitis, loss of										
Bozkurt, 2016	Cross sectional	Non probabilistic Consecutive sampling Unclear/	Not reported Retrospectively	Turkey	Upper-middle-income economies Western Asia 2013-2014	55	Adults: 19+ years	63 Unclear/Not reported Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	consciousness, skin rash. Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	The diagnosis of CCHF was Low risk of bias	Humans-CFR		Positive among CCHFV suspected cases		Real Time RT-PCR	Viral RNA	Current infection Serum
																		confirmed by real time PCR (Qiagen, Germany) in Samsun Public Health Agency reference							
																		laboratory and patients with clinically suspected CCHF and/or with positive serological tests but							
Bryan 1996	Cross sectional	Non probabilistic Consecutive sampling Monocen	ter Prospectively	Pakistan	Lower-middle income economies Southern Asia Oct/1984-Nov/1984	Unclear/Not reported	Unclear/Not reported	100 Urban Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	negative PCR were excluded.2	Humans-Prevalence		Apparently healthy individuals		Indirect FLISA	Inc	Past infection Serum
Bukbuk, 2014 Bukbuk, 2016 Bukbuk, 2016	Cross sectional Cross sectional	Probabilistic Simple random sampling Multicent Probabilistic Simple random sampling Multicent Probabilistic Simple random sampling Multicent	ter Prospectively ter Prospectively Prospectively	Nigeria Nigeria	Lower-middle income economies West Africa Sep/2011-Feb/2012 Lower-middle income economies West Africa 2010-2014 Lower middle income economies West Africa 2010 2014	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban/rural Community-based Unclear/Not reported Urban/rural Community-based	d Not applicable (if not in the hospital) Unclear/Not reported d Not applicable (if not in the hospital) d Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Unclear/Not reported Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	e Not applicable e Not applicable e Not applicable	Not applicable Not applicable	Not applicable Unclear/Not reported Unclear/Not reported	Not applicable Unclear/Not reported	Not applicable Unclear/Not reported	Unclear/Not reported Moderate risk of bias Unclear/Not reported Low risk of bias Unclear/Not reported Low risk of bias	Humans-Prevalence Humans-Prevalence Humans-Prevalence		Apparently healthy individuals Apparently healthy individuals Mixed human categories Mixed human categories	Apparently healthy individuals, Febrile patients	Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG IgM	Past infection Serum Past infection Serum Recent infection Serum
Bukbuk, 2016 Bursali, 2011	Cross sectional Cross sectional	ProbabilisticSimple random samplingMulticentNon probabilisticCaptureMulticent	ter Prospectively Prospectively	Nigeria Turkey	Lower-middle income economies West Africa 2010-2014 Upper-middle-income economies Western Asia Apr/2008-Nov/2008	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban/rural Community-base Unclear/Not reported Urban Community-base	d Not applicable (if not in the hospital) d Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable identiPed to species based on the keys given by Nuttall and Warburton (1911	Not applicable Not applicable Unclear/ Not reported To test presence ofCCHEVin tic	e Not applicable ce Size	Not applicable 10	Unclear/Not reported Not applicable	Unclear/Not reported Not applicable	Unclear/Not reported Not applicable	Unclear/Not reported Low risk of bias Unclear/Not reported Moderate risk of bias	Humans-Prevalence Tick pools		Febrile patients Positive tick pool species	Hyalomma marginatum, Hyalomma detritum, Hyalomma turanicum, Hyalomma anatolicum, Hyalomma aegyptium	Real Time RT-PCR Classical RT-PCR	Viral RNA Viral RNA	Current infection Serum Current infection Ticks
											(1954), Kurtpinar (1954), Hoogstraal (1959), Parrish (1961), Kaiser and	n randomly selec Hyalomma tick	cted ks, which									tarameuni, riyaoninia anatoneuni, riyaoninia aegyptum			
											Hoogstraal (1964), Nemenz (1967), Merdivenci (1969), Ozkan (1978), and Weller et al. (2000), and recent world	I Turkey, were p	HFV in pooled to												
											Walker et al. (2000), and recent world tick lists reported by Horak et al. (2002a), Barker and Murr	el ticks in species	ools of 10 grouping s and stored												
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	. in70C. Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Specimens were recorded as IgM antibody positive if the absorbance	Other animals	Primates	Baboon		Indirect ELISA	Antibodies	Past infection Serum
																		in the sample wells was at least twice the value of that for control serum taken from the animals prior							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	to infection. Specimens were recorded as IgM antibody positive if the absorbance	Other animals	Artiodactyla	Blue wildebeest		Indirect ELISA	Antibodies	Past infection Serum
																		in the sample wells was at least twice the value of that for control serum taken from the animals prior							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	to infection. Specimens were recorded as IgM Moderate risk of bias antibody positive if the absorbance	Other animals	Artiodactyla	Buffalo		Indirect ELISA	Antibodies	Past infection Serum
																		in the sample wells was at least twice the value of that for control serum taken from the animals prior							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	to infection. Specimens were recorded as IgM antibody positive if the absorbance	Other animals	Carnivora	Cheetah		Indirect ELISA	Antibodies	Past infection Serum
																		in the sample wells was at least twice the value of that for control serum taken from the animals prior							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	to infection. Specimens were recorded as IgM antibody positive if the absorbance	Other animals	Proboscidea	Elephant		Indirect ELISA	Antibodies	Past infection Serum
																		in the sample wells was at least twice the value of that for control							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	to infection. Specimens were recorded as IgM	Other animals	Artiodactyla	Giraffe		Indirect ELISA	Antibodies	Past infection Serum
																		in the sample wells was at least twice the value of that for control							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	serum taken from the animals prior to infection. Specimens were recorded as IgM Moderate risk of bias	Other animals	Lagomorpha	Hare		Indirect ELISA	Antibodies	Past infection Serum
																		antibody positive if the absorbance in the sample wells was at least twice the value of that for control							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	ter Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	serum taken from the animals prior to infection. Specimens were recorded as IgM	Other animals	Artiodactyla	Hippopotamus		Indirect ELISA	Antibodies	Past infection Serum
																		antibody positive if the absorbance in the sample wells was at least twice the value of that for control							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	serum taken from the animals prior to infection. Specimens were recorded as IgM	Other animals	Artiodactyla	Impala		Indirect ELISA	Antibodies	Past infection Serum
																		antibody positive if the absorbance in the sample wells was at least twice the value of that for control							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	serum taken from the animals prior to infection. Specimens were recorded as IgM Moderate risk of bias	Other animals	Carnivora	Lion		Indirect ELISA	Antibodies	Past infection Serum
																		antibody positive if the absorbance in the sample wells was at least twice the value of that for control							
Burt 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	serum taken from the animals prior to infection.	Other animals	Carnivora	Sable		Indirect FLISA	Antibodies	Past infection Serum
Butt, 1995		Wulleen	in the spectroly	Souri Anica	opper-induc-income continues Southern Airica 1974-1992	Une call Not reported	onclear/Not reported	Chercal/Not reported Community-base										antibody positive if the absorbance in the sample wells was at least twice the value of that for control		Carmivora	Sable			Anuboules	ast intection setum
D. (1002													N					serum taken from the animals prior to infection.							
Buit, 1995	Cross sectional	Multicent	riospectively	South Africa	Southern Arrica 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d (in not in the nospital)	Not applicable (if not in the hospital)		Not applicable Not applicable	e Not applicable	Not applicable	Not applicable			antibody positive if the absorbance in the sample wells was at least		Artiodactyra	warmog		Indirect ELISA	Anubodies	Past meetion Serum
																		serum taken from the animals prior to infection.							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	antibody positive if the absorbance in the sample wells was at least	Other animals	Perissodactyla	White rhino		Indirect ELISA	Antibodies	Past infection Serum
																		twice the value of that for control serum taken from the animals prior to infection.							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Specimens were recorded as IgM antibody positive if the absorbance in the sample wells was at least	Other animals	Carnivora	Wild dog		Indirect ELISA	Antibodies	Past infection Serum
																		twice the value of that for control serum taken from the animals prior to infection.							
Burt, 1993	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	South Africa	Upper-middle-income economies Southern Africa 1974-1992	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Specimens were recorded as IgM antibody positive if the absorbance in the sample wells was at least	Other animals	Perissodactyla	Zebra		Indirect ELISA	Antibodies	Past infection Serum
																		twice the value of that for control serum taken from the animals prior to infection.							
Burt, 1996 Cajimat, 2017	Cross sectional Cross sectional	Non probabilisticConsecutive samplingMulticentNon probabilisticCaptureMulticent	er Retrospectively Prospectively	South Africa Spain	Upper-middle-income economiesSouthern Africa1983-1984High-income economiesSouthern EuropeOct/2014-Jan/2015	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reportedUnclear/Not reportedCommunity-baseUnclear/Not reportedUnclear/Not reportedCommunity-base	dNot applicable (if not in the hospital)dNot applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)	Not applicable Unclear/ Not reported	Not applicable Not applicable Unclear/ Not reported Ticks were division pools, consistir Division	e Not applicable vided into 45 Size, Engorgement	Not applicable nt 5-9	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias	Other animals Tick pools	Artiodactyla	Cattle Positive tick pool species	Hyalomma lusitanicum	Indirect ELISA Classical RT-PCR	Antibodies Viral RNA	Past infection Serum Current infection Ticks
												nine unfed adu semi- or engorg	ults or one rged adult												
Ceianu, 2012 Çelik, 2016	Cross sectional Cross sectional	Non probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMonocent	ter Prospectively ter Retrospectively	Romania Turkey	High-income economiesEastern EuropeJun/2008; Aug/2008-Sep/2008Upper-middle-income economiesWestern Asia2009-2013	Unclear/Not reported 46.7	Unclear/Not reported All ages	Unclear/Not reportedUrban/ruralCommunity-base63.6UrbanHospital-based	d Not applicable (if not in the hospital) Clinic	Not applicable (if not in the hospital) Hospitalized	Not applicable Not applicable	Not applicableNot applicableNot applicableNot applicable	e Not applicable e Not applicable	Not applicable Not applicable	Not applicable Unclear/Not reported	Not applicable Unclear/Not reported	Not applicable Unclear/Not reported	Unclear/Not reported Moderate risk of bias Patients with a definite diagnosis of Low risk of bias CCHF via clinical manifestations	Other animals Humans-CFR	Artiodactyla	Sheep Positive among CCHFV suspected cases		Indirect ELISA Classical RT-PCR, Indirect ELISA	IgG IgM, Viral RNA	Past infection Serum Current infection Serum
																		and the positive results of viral RNA by reverse transcriptase - polymerase chain reaction (RT-							
																		PCR) and/or specific IgM antibody were enrolled to the study.							
Cevik, 2008	Cross sectional	Non probabilistic Consecutive sampling Monocen	ter Retrospectively	Turkey	Upper-middle-income economies Western Asia 2003-2006	50	Unclear/Not reported	34.8 Urban Hospital-based	Tertiary hospital	Hospitalized	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Only patients with a definitive diagnosis of CCHF by means of clinical presentation plus the	Humans-CFR		Positive among CCHFV suspected cases		Classical RT-PCR, Indirect ELISA	IgM, Viral RNA	Current infection Serum
																		presence of specific IgM antibody and/or detection of viral RNA by reverse							
Champour 2014	Cross sactions 1	Probabilistic	er Descent f	Trov	Upper-middle-income economics Southern Asia Data (2010 2017)	Theless Ot	I Inclose OT : 1	Unclear/Not reported Unclear/Not reported T	d Not applicable (if not in the last in the	NT-411	The sample ticks were 1	No	ere nooled	of canture	Not amiliarly	Not applicable	Not applicable	transcriptase-polymerase chain reaction (RT-PCR), Unclear/Not reported	Individual tist	mma	Hvalomma anatolicum		Classical RT-PCP	Viral RNA	Current infaction
pour, 2014	eros occuonal	Multicent	rospectively	11 411	-rr-2 made meene conomics Bouttern Asia [Viay/2012-Jan/2013	oncreat/not reported	encreat/not reported	Community-base	approvate (in not in the nospital)	(If not in the hospital)	laboratory and identified using stereomiscroscope according to general identification have	al al area,gender and	he same Gender nd species of	,, Onerear root reported	пот аррисаоне	Tradute	approable	woderate risk of bias	Hyald						
Champour, 2014	Cross sectional	Probabilistic Capture Multicent	er Prospectively	Iran	Upper-middle-income economies Southern Asia May/2012-Jan/2013	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	The sample ticks were brought to laboratory and identified using	No The sample we according to th	ere pooled Species, source o he same Gender	of capture, Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported Moderate risk of bias	Individual tick Hyald	mma	Hyalomma dromedarii		Classical RT-PCR	Viral RNA	Current infection Ticks
Champour, 2014	Cross sectional	Probabilistic Capture Multicent	er Prospectively	Iran	Upper-middle-income economies Southern Asia May/2012-Jan/2013	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	identification keys The sample ticks were brought to laboratory or disk with the start of the st	area,gender and ticks No The sample we	ere pooled Species, source o	of capture, Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported Moderate risk of bias	Individual tick Hyalo	mma	Hyalomma marginatum		Classical RT-PCR	Viral RNA	Current infection Ticks
		Deckshillette						Unalace/Michaelace			stereomiscroscope according to general identification keys	al according to th area,gender and ticks	In same Gender			Not en 1	N-construction		Other		Comel		Indiract ELICA	Let	
Champour, 2014 Chantal, 1996 Chapman, 1991	Cross sectional Cross sectional Cross sectional	ProbabilisticSimple random samplingMulticentNon probabilisticConsecutive samplingUnclear/Non probabilisticConsecutive samplingMulticent	lerProspectivelyNot reportedUnclear/ Not reportterProspectively	Iran ted Djibouti Senegal	Upper-middle-income economiesWestern AsiaMay/2012-Jan/2013Lower-middle income economiesEastern AfricaUnclear/Not reportedLower-middle income economiesWest AfricaFeb/1989-May/1989	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reportedUrbanCommunity-baseUnclear/Not reportedUnclear/Not reportedCommunity-base41.3RuralCommunity-base	uNot applicable (if not in the hospital)dNot applicable (if not in the hospital)dNot applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicable	e Not applicable e Not applicable e Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reportedModerate risk of biasUnclear/Not reportedModerate risk of biasDetection of CCHF virus-specificModerate risk of bias	Other animals Humans-Prevalence Humans-Prevalence	Artiodactyla	Camel High risk individuals Apparently healthy individuals		Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG IgG	Past infectionSerumPast infectionSerumPast infectionSerum
Chapman, 1991	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	Senegal	Lower-middle income economies West Africa Feb/1989-May/1989	Unclear/Not reported	Unclear/Not reported	41.3 Rural Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	IgG and IgM antibodies by ELISA Detection of CCHF virus-specific Moderate risk of bias	Humans-Prevalence		Apparently healthy individuals		Indirect ELISA	IgM	Recent infection Serum
Chinikar, 2007	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	Iran	Upper-middle-income economies Southern Asia Jui/2000-Sep82005	Unclear/Not reported	Adults: 19+ vears	30.5 Unclear/Not reported Hospital-based	Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Around 763 CCHF-suspected	suspected patient is a patient who	A probable case is a patient w	IgG and IgM antibodies by ELISA o is A definitive case is a patient who is Low risk of bias	Humans-Prevalence		CCHFV suspected cases		Indirect ELISA	IgM	Recent infection Serum
															patients (which means they had a sudden fever, at least one sort of hemorrhage and thrombocvtopenia.	has sudden onset of fever, myalgia bleeding, one of the epidemiological signs such as tick	a, a suspected case with a thrombocytopenia (less than 150,000 platelets/mm3) with	a probable case with positive serological test or RT-PCR- positive							
															less than 100,000 platelets/mL), 295 (262 + 33) were confirmed cases which means they were	bite or hand crushing of ticks or contact with fresh blood or other tissues of infected domestic	leucopenia (less than 3,000 lymphocytes/mm3) or leucocy (more than 9,000	osis							
															either IgM-positive or RT-PCR- positive for CCHF.	animals, direct contact with the blood, and excretions of a confirmed or suspected patient of	lymphocytes/mm3).								
Chinikar, 2007	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	Iran	Upper-middle-income economies Southern Asia Jui/2000-Sep§2005	Unclear/Not reported	Adults: 19+ years	30.6 Unclear/Not reported Hospital-based	Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Around 763 CCHF-suspected patients (which means they had a	Suspected patient is a patient who has sudden onset of fever, mvalgin	A probable case is a patient w a, a suspected case with a	o is A definitive case is a patient who is Low risk of bias a probable case with positive	Humans-Prevalence		CCHFV suspected cases		Indirect ELISA	IgG	Past infection Serum
															sudden fever, at least one sort of hemorrhage and thrombocytopenia: less than 100 000 platelets (mL)	bleeding, one of the epidemiological signs such as tick bite or hand crushing of ticks or	thrombocytopenia (less than 150,000 platelets/mm3) with leucopenia (less than 3 000	serological test or RT-PCR- positive							
															295 (262 + 33) were confirmed cases which means they were either IgM-positive or RT-PCP	contact with fresh blood or other tissues of infected domestic animals, direct contact with the	lymphocytes/mm3) or leucocy (more than 9,000 lymphocytes/mm3)	osis							
															positive for CCHF.	blood, and excretions of a confirmed or suspected patient of CCHF.									
Chinikar, 2007	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	Iran	Upper-middle-income economies Southern Asia Jui/2000-Sep§2005	Unclear/Not reported	Adults: 19+ years	30.7 Unclear/Not reported Hospital-based	Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Around 763 CCHF-suspected patients (which means they had a sudden fever at least care water	suspected patient is a patient who has sudden onset of fever, myalgia bleeding, one of the	A probable case is a patient w a, a suspected case with a thrombocytopenia (less th	o is A definitive case is a patient who is Low risk of bias a probable case with positive serological test or RT-PCR-	Humans-Prevalence		CCHFV suspected cases		Real Time RT-PCR	Viral RNA	Current infection Serum
															hemorrhage and thrombocytopenia: less than 100,000 platelets/mL), 295 (262 + 33) were confirmed	epidemiological signs such as tick bite or hand crushing of ticks or contact with fresh blood or other	150,000 platelets/mm3) with leucopenia (less than 3,000 lymphocytes/mm3) or leuro	positive							
															cases which means they were either IgM-positive or RT-PCR-	tissues of infected domestic animals, direct contact with the blood, and excretions of	(more than 9,000 lymphocytes/mm3).								
Chinikar 2000	Cross sasting 1	Non probabilistic Conception care li	er Decentration	Iron	Upper-middle-income economics Southern Asian II (2000, 2 - 2007	IInolog-Øt-	I Incloss (M-	Unclear/Not reported Unclear/Net way to 1	d Not applicable (if not in the last it it)	NT-4	Not applicable	Not applicable	Notes 11 CC	Not one light	An individual to a state	confirmed or suspected patient of CCHF.	Finally any COUR	se Finally any CCHE probable and by the	Humane Drovel		CCHEV suspected cases		Indirect FLISA	IøG	Past infection
	Cross scouonal	Multicent	rospectively	11 411	Jun/2000-Sep/2007	oncreat/not reported	Sherear/not reported	Community-base	(in not in the nospital)	(If not in the hospital)	applicable	INOt applicable	inot applicable		as a suspect case when he shows sudden onset of		whose serum has positive immunoglobulin M (I antibodies and/or	(M) whose serum has positive immunoglobulin M (IgM) antibodies and/or			suspected cases				Serum
															haemorrhagic manifestations and an epidemiological		who is positive by RT-PCR detection for viral RNA is considered a CCUE confi	who is positive by RT-PCR detection for viral RNA is considered a CCHE confirmed							
Chinikar 2000	Croce continent	Non probabilistic Consecutive correction	er Drocessi i	Iran	Upper-middle-income economies Southern Asia Upper-Maria	Unclose Michaeler	I Inclose/Net an	Unclear/Not reported Unclear/Not reported	d Not applicable (if not in the base's 1)	Not onalizable (10 sectors in the	Not applicable	Not applicable	Not con l'	Not applicable	tick bite, handling animal or human blood or tissues	Not applicable	case.	Case.	Other animala	Articolocityle	Livestock		Indirect FLISA	IgG	Past infection
Chinikar, 2010 Chinikar, 2010 Chinikar, 2010	Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticent	r rospectively ter Retrospectively ter Retrospectively	Iran Iran Iran Iran	Upper-middle-income economies Southern Asia Jun/2000-Sep/2007 Upper-middle-income economies Southern Asia Jun/2000-Dec/2009 Upper-middle-income economies Southern Asia Jun/2000-Dec/2009 Upper-middle-income economies Southern Asia Jun/2000-Dec/2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Community-base Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	orted Unclear/Not reported orted Unclear/Not reported d Not applicable (if not in the begainst)	Unclear/Not reported Unclear/Not reported Not applicable (if such a function in the hospital)	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	e Not applicable e Not applicable e Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported Ivioderate risk of bias Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias	Humans-Prevalence Humans-CFR Other animals	Animal unoposition 1	CCHFV suspected cases Positive among CCHFV suspected cases Animal unspecified		Classical RT-PCR, Indirect ELISA, Real Time RT-PCR Classical RT-PCR, Indirect ELISA, Real Time RT-PCR Indirect ELISA	Antibodies, Viral RNA Antibodies, Viral RNA IgG	Current infection Serum Current infection Serum Past infection Serum
Chinikar, 2012 Chinikar, 2012 Chinikar, 2012	Cross sectional Cross sectional	Non probabilisticConsecutive samplingMulticentProbabilisticSimple random samplingMulticentNon probabilisticCaptureMulticent	ter Prospectively Prospectively Prospectively Prospectively	Iran Iran Iran	Upper-middle-income economies Southern Asia 2008 Upper-middle-income economies Southern Asia 2004-2005 Upper-middle-income economies Southern Asia 2008	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reportedUrbanCommunity-baseUnclear/Not reportedUrbanCommunity-baseUnclear/Not reportedUrbanCommunity-base	d Not applicable (if not in the hospital) d Not applicable (if not in the hospital) d Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Unclear/ Not reported	Not applicable Not applicable Not applicable Not applicable Unclear/ Not reported Not applicable	e Not applicable e Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Moderate risk of bias Unclear/Not reported Low risk of bias Unclear/Not reported Moderate risk of bias	Humans-Prevalence Humans-Prevalence Individual tick	cified tick	High risk individuals High risk individuals Unspecified tick		Indirect ELISA Indirect ELISA Classical RT-PCR	IgG IgG Viral RNA	Past infection Serum Past infection Serum Current infection Ticks
Chinikar, 2012 Chisholm, 2012	Cross sectional Cross sectional	Non probabilistic Consecutive sampling Multicent Non probabilistic Capture Monocen	ter Prospectively Prospectively	Iran Egypt	Upper-middle-income economies Southern Asia 2008 Lower-middle income economies Northern Africa jul/2009	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban Community-base Unclear/Not reported Urban Community-base	d Not applicable (if not in the hospital) d Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Unclear/ Not reported	Not applicable Not applicable Unclear/ Not reported ticks were group	e Not applicable uped into Species, source o ies, sex, and Gender	Not applicable of capture, Unclear/ Not reported	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias	Other animals Onspective Individual tick Rhipi	Animal unspecified	Animal unspecified Boophilus species		Indirect ELISA Real Time RT-PCR	IgG Viral RNA	Past infection Serum Current infection Ticks
Chisholm, 2012	Cross sectional	Non probabilistic Capture Monocen	ter Prospectively	Egypt	Lower-middle income economies Northern Africa jul/2009	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Unclear/ Not reported	Unclear/ Not reported ticks were group	uped into Species, source o	of capture, Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported Moderate risk of bias	Tick pools		Positive tick pool species	Hyalomma excavatum, Hyalomma dromedarii	Real Time RT-PCR	Viral RNA	Current infection Ticks
Choubdar, 2019	Cross sectional	Probabilistic Capture Multicent	er Prospectively	Iran	Upper-middle-income economies Southern Asia 2016-2017	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban/rural Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	The specimens were identified to	Unclear/ Not reported Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported Moderate risk of bias	Individual tick Hyalo	mma	Hyalomma species		Classical RT-PCR	Viral RNA	Current infection Ticks
Christova, 2013	Cross sectional	Non probabilistic Consecutive sampling Multicent	er Prospectively	Bulgaria	Upper-middle-income economies Eastern Europe 2011	48	All ages	50.2 Urban Community-base	d Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	and taxonomic key Not applicable	Not applicable Not applicable	e Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported Moderate risk of bias	Humans-Prevalence		Apparently healthy individuals		Indirect ELISA	IgG	Past infection Serum

Christova, 2013 Christova, 2013 Christova, 2017 Christova, 2018 Christova, 2018	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive samplingProbabilisticSimple random samplNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	g Multicenter g Multicenter ling Monocenter g Multicenter	Prospectively Prospectively Prospectively Prospectively	Bulgaria Bulgaria Bulgaria Bulgaria Bulgaria	Upper-middle-income economies Eastern Eur	rope 2008-2011 rope 2008-2011 rope May/2015-Oct/2015 rope 2015	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not All ages 43.3 Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not	reported Urban Hospital-based reported Urban Hospital-based Urban Hospital-based reported Unclear/Not reported Community-based	Unclear/Not reported Unclear/Not reported Health Centers Not applicable (if not in the hospital)	Unclear/Not reported Unclear/Not reported Ambulatory Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Mod	derate risk of bias Humans-Prevalence derate risk of bias Humans-Prevalence derate risk of bias Humans-Prevalence derate risk of bias Other animals derate risk of bias Other animals	Artiodactyla	Febrile patients Febrile patients Apparently healthy individuals Cattle		Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgM IgG IgG	Past infection Recent infection Past infection Past infection Past infection	n Serum ction Serum on Serum on Serum
Christova, 2018 Christova, 2018 Cikman, 2016 Cikman, 2016 Clements, 2019	Cross sectional Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	g Multicenter g Multicenter g Multicenter g Multicenter g Multicenter	Prospectively Prospectively Prospectively Prospectively Prospectively	Bulgaria Bulgaria Turkey Turkey Uganda	Upper-middle-income economies Eastern Eur Upper-middle-income economies Eastern Eur Upper-middle-income economies Western As Upper-middle-income economies Western As Low-income economies Eastern Afr	rope 2015 rope 2015 sia Unclear/Not reported sia Unclear/Not reported rica 2006-2007	Unclear/Not reported 51.4 51.4 Unclear/Not reported	Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not All ages 38.7 All ages 38.7 Unclear/Not reported Unclear/Not	reported Unclear/Not reported Community-based Urban/rural Community-based Urban/rural Community-based reported Urban Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Mod	derate risk of bias Other animals derate risk of bias Humans-Prevalence derate risk of bias Humans-Prevalence derate risk of bias Humans-Prevalence	Artiodactyla Artiodactyla	Sheep Apparently healthy individuals Apparently healthy individuals Apparently healthy individuals		Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG IgM IgG	Past infection Past infection Recent infection Past infection	n Serum n Serum n Serum ction Serum ion Serum
Darwish, 1983 Darwish, 1983 Darwish, 1983 Darwish, 1983 Darwish, 1983	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	g Unclear/ Not reported g Unclear/ Not reported g Unclear/ Not reported g Unclear/ Not reported g Unclear/ Not reported	Unclear/ Not reported Unclear/ Not reported Unclear/ Not reported Unclear/ Not reported Unclear/ Not reported	Pakistan Pakistan Pakistan Pakistan Pakistan	Lower-middle income economies Southern A	Asia Unclear/Not reported Asia Unclear/Not reported Asia Unclear/Not reported Asia Unclear/Not reported Asia Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not	reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Detection of antibodies by CFT Mod Detection of antibodies by CFT Mod	derate risk of bias Humans-Prevalence derate risk of bias Other animals derate risk of bias Other animals derate risk of bias Other animals derate risk of bias Other animals	Artiodactyla Artiodactyla Artiodactyla Bodentia	Apparently healthy individuals Buffalo Cow Goat Rodents		Complement fixation test Complement fixation test Complement fixation test Complement fixation test	Antibodies Antibodies Antibodies Antibodies Antibodies	Past infection Past infection Past infection Past infection Past infection	n Serum n Serum on Serum on Serum
Darwish, 1965 Darwish, 1983 David-West, 1974 De Liberato, 2018	Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Probabilistic Simple random sampling Non probabilistic Consecutive sampling	g Unclear/ Not reported g Unclear/ Not reported ling Multicenter	Unclear/ Not reported Prospectively Prospectively Retrospectively	Pakistan Nigeria Italy Turkey	Lower-middle income economies Southern A Lower-middle income economies West Africa High-income economies Southern E Upper-middle-income economies Western As	Asia Unclear/Not reported a Dec/1973-Aug/1974. Europe Mar/2013-May/2014 sia 2008	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not Unclear/Not reported 56.4 Unclear/Not reported Unclear/Not Child: Birth-18 years Unclear/Not	reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported reported Urban/rural Community-based	Not applicable (if not in the hospital) Unclear/Not reported Not applicable (if not in the hospital) Emergency department University Hospital	Not applicable (if not in the hospital) Unclear/Not reported Not applicable (if not in the hospital) Hospitalized	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Unclear/Not reported Not applicable Unclear/Not reported	Not applicable Unclear/Not reported Not applicable They had clinical symptoms and	Not applicable Unclear/Not reported Not applicable Unclear/Not reported	Detection of antibodies by CFT Mod Unclear/Not reported Mod Detection of antibodies by Indirect Mod ELISA Diagnosis of all except two patients Low	derate risk of bias Other animals derate risk of bias Humans-Prevalence derate risk of bias Other animals v risk of bias Humans-Prevalence	Artiodactyla Artiodactyla	Sheep Febrile patients Sheep		Complement fixation test Complement fixation test Neutralization test Indirect ELISA Indirect ELISA	Antibodies Antibodies Antibodies IgM Viral RNA	Past infection Past infection Past infection Current infect	n Serum n Serum on Serum
Dilber, 2009		Consecutive sampling		Renospectively	Turkey	opper-indule-income economies western As	514 2005	onclear/Not reported	Clinic. Bitur-16 years Chelean to		Energency department, oniversity hospital	hospitalized						onclear/Not reported	signs of CCHF such as fever, myalgia, malaise and bleeding as well as a history of tick bite or travel to an endemic region	onclear/Not reported	was confirmed by finding elevated IgM antibodies and/or viral RNA by reverse transcriptase polymerase chain reaction (RT-PCR).	Tunians-Trevalence				muneet EEISA, Kear Time KT-T CK			ion iscrum
Dilber, 2009	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Retrospectively	Turkey	Upper-middle-income economies Western As	sia 2008	Unclear/Not reported	Child: Birth-18 years Unclear/Not	reported Urban/rural Hospital-based	Emergency department, University Hospital	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	They had clinical symptoms and signs of CCHF such as fever, myalgia, malaise and bleeding as well as a history of tick bite or	Unclear/Not reported	Diagnosis of all except two patients Low was confirmed by finding elevated IgM antibodies and/or viral RNA by reverse transcriptase polymerase	v risk of bias Humans-CFR		Positive among CCHFV suspected cases		Indirect ELISA, Real Time RT-PCR	IgM, Viral RNA	Current infec	ction Serum
Dinçer, 2017	Cross sectional	Non probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia 2014-2016	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Urban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	The specimens were kept alive in separate vials, transferred to the laboratory and identified	in Unclear/ Not reported	ticks were pooled according to collection site, species and	Species, source of capture, Developmental stage	2-20	Not applicable	Not applicable	Not applicable	Unclear/Not reported Mod	derate risk of bias Individual tick	Dermacentor	Dermacentor marginatus		Classical RT-PCR	Viral RNA	Current infec	ction Ticks
Dinçer, 2017	Cross sectional	Non probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia 2014-2016	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Urban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	morphologically to the species lev using appropriate taxonomic keys [32–36]. The specimens were kept alive in separate vials, transferred to the	in Unclear/ Not reported	developmental stage up to a maximum of 20 individuals per pool ticks were pooled according to collection	Species, source of capture, Developmental stage	2-20	Not applicable	Not applicable	Not applicable	Unclear/Not reported Mod	derate risk of bias Individual tick	Haemaphysalis	Haemaphysalis parva		Classical RT-PCR	Viral RNA	Current infec	ection Ticks
Dinçer, 2017	Cross sectional	Non probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia 2014-2016	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Urban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	laboratory and identified morphologically to the species lev using appropriate taxonomic keys [32–36]. The specimens were kept alive in	in Unclear/ Not reported	site, species and developmental stage up to a maximum of 20 individuals per pool ticks were pooled	Species, source of capture,	2-20	Not applicable	Not applicable	Not applicable	Unclear/Not reported Mod	derate risk of bias Individual tick	Hyalomma	Hyalomma aegyptium		Classical RT-PCR	Viral RNA	Current infec	ection Ticks
													separate vials, transferred to the laboratory and identified morphologically to the species lev using appropriate taxonomic keys [32–36].	level	according to collection site, species and developmental stage up to a maximum of 20 individuals per pool	Developmental stage													
Dinçer, 2017	Cross sectional	Non probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia 2014-2016	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Urban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	The specimens were kept alive in separate vials, transferred to the laboratory and identified morphologically to the species lev using appropriate taxonomic	in Unclear/ Not reported	ticks were pooled according to collection site, species and developmental stage up to a maximum of	Species, source of capture, Developmental stage	2-20	Not applicable	Not applicable	Not applicable	Unclear/Not reported Mod	derate risk of bias Tick pools		Positive tick pool species	Rhipicephalus bursa, Rhipicephalus sangu marginatum	neus, Hyalomma Classical RT-PCR	Viral RNA	Current infec	tion Ticks
Dokuzoguz, 2013	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Retrospectively	Turkey	Upper-middle-income economies Western As	sia 2004-2011	47	All ages 51	Urban Hospital-based	Unclear/Not reported	Hospitalized	keys [32–36]. Not applicable	Not applicable	20 individuals per pool Not applicable	Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	The diagnosis of CCHF was Low confirmed by enzymelinked immunosorbent assay detected of immunoglobulin M and/or positive	v risk of bias Humans-CFR		Positive among CCHFV suspected cases		Classical RT-PCR, Indirect ELISA	IgM, Viral RNA	Current infec	ction Serum
Duygu, 2012 Duygu, 2018	Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	g Monocenter g Monocenter	Retroprospectively Retrospectively	Turkey Turkev	Upper-middle-income economies Western As Upper-middle-income economies Western As	sia 2007-2010 sia Apr/2011-Sep/2011	47.1 Unclear/Not reported	Unclear/Not reported 54.5 Unclear/Not reported 47.9	Urban/rural Hospital-based Unclear/Not reported Hospital-based	Unclear/Not reported Unclear/Not reported	Hospitalized Hospitalized	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable	Not applicable Not applicable	Unclear/Not reported In patients pre-diagnosed with	Unclear/Not reported Case meets the clinical and	Unclear/Not reported Case meets the clinical and	results of polymerase chain reaction for CCHF virus in blood. Unclear/Not reported Mod Case meets the clinical + Mod	derate risk of bias Humans-CFR derate risk of bias Humans-CFR		Positive among CCHFV suspected cases Positive among CCHFV suspected cases		Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA	Current infec	ection Serum
<i>Duygu</i> , 2010				readspectroly	Turkey													CCHF diagnostic criteria were as follows; Clinical findings: At least two symptoms (fever, headache, myalgia, nausea/vomiting, arthralgia, weakness, haemorrhage)	epidemiologic linkage criteria.	epidemiologic linkage criteria meets two supportive findings case meets the clinical and epidemiologic linkage criteria endemic areas for CCHF.	a and demonstration of viral RNA in blood and tissue samples, specific IgM positivity, four-fold increase a in specific IgG titre, epidemiological association with								
																		and leukopaenia (<4000/µL)/ thrombocytopaenia (<150 000/µL), elevation of AST, ALT), LDH and CPK. Supportive findings: Haemorrhagic-purpuric rash and	,		confirmed CCHF patient.								
																		other haemorrhagical symptoms. Epidemiological history and one or more of the following exposures within the 3 weeks before onset of symptoms: Living in-or travel to											
																		endemic area, history of tick exposure, contact with blood or other body fluids of an animal, contact with blood or other body fluids of confirmed CCHF patient,											
al Azozy 1007	Cross sectional	Probabilistia Cimple rendom compl	ling Multicontor	Patrospactivalu	Coudi Archio	Uich income according Western As	sia Aug/1020 Mag/1000	Unclose/Not reported	Adulta: 10 - years 75	Unclose/Not reported Community based	Not appliable (if not in the heapitel)	Not applicable (if not in the bospitel)	Not opplicable	Not applicable	Not applicable	Not applicable	Not applicable	work in a laboratory that handles CCHF specimens.	Not applicable	Not oppliaghla	Lingleer/Net reported Me	derete rick of higs Humana Provalance		Lich rick individuals		Indiract immunofluoraceance esseu	Antibodios	Dest infectio	ion Sorum
el-Azazy, 1997 el-Azazy, 1997 England, 2016	Cross sectional Cross sectional	Probabilistic Simple random sample Probabilistic Simple random sample Non probabilistic Capture	ling Multicenter Monocenter	Retrospectively Prospectively	Saudi Arabia Saudi Arabia Spain	High-income economies Western As High-income economies Western As High-income economies Southern Ex	Sta Aug/1989-May/1990 sia Aug/1989-May/1990 Europe Apr/2012-May/2012	Unclear/Not reported Unclear/Not reported	Adults: 19+ years 75 Adults: 19+ years 75 Unclear/Not reported Unclear/Not	Unclear/Not reported Community-based reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable The ticks were aged and identified morphologically to genus (and sp in the case of Hyalomma spp. tick using the method of Estrade Paña	Not applicable Not applicable ied No species icks) ñe et el	Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Not applicable	Unclear/Not reported Not applicable	Not applicable Unclear/Not reported Not applicable	Unclear/Not reported Mod Unclear/Not reported Mod	derate risk of bias Humans-Prevalence derate risk of bias Individual tick	Hyalomma	Patient with hemorrhagic symptoms Hyalomma marginatum		Indirect immunofluorescence assay Indirect immunofluorescence assay Real Time RT-PCR	Antibodies Antibodies Viral RNA	Past infection Past infection Current infec	n Serum ction Ticks
Enkhtsetseg, 2016 Eren, 2016	Cross sectional Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive sampling	g Multicenter g Monocenter	Prospectively Retrospectively	South Sudan Turkey	Low-income economies Eastern Afr Upper-middle-income economies Western Asr	rica Unclear/Not reported sia Apr/2014-Oct/2015	Unclear/Not reported 65	Unclear/Not reported Unclear/Not Unclear/Not reported 57	reported Unclear/Not reported Community-based Unclear/Not reported Hospital-based	Not applicable (if not in the hospital) Emergency department	Not applicable (if not in the hospital) Hospitalized	(2004) and A. Bouattour (persona communication). Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable The patients were divided into two	Not applicable Unclear/Not reported	Not applicable Unclear/Not reported	Unclear/Not reported Mod Unclear/Not reported Low	derate risk of bias Humans-Prevalence v risk of bias Humans-CFR		Apparently healthy individuals Positive among CCHFV suspected cases		Indirect immunofluorescence assay Classical RT-PCR	IgG Viral RNA	Past infection Current infec	on Serum ection Serum
																		groups. The first group consisted of those patients whom Çevik et al. (2008) defined as serious according to their characteristic symptoms, bleeding form, platelet	f										
																		transfusion therapy and thrombocytopenia (<20_109), prolonged activated partial thromboplastin time (aPTT, _60 s), melaena and somnolence. The	,										
																		second group was defined by us as patients with PLR <41, as calculated using receiver operating characteristic (ROC) analyses.											
Erenler, 2014 Erenler, 2014 Erenler, 2015	Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	g Monocenter g Monocenter g Monocenter	Retrospectively Retrospectively Retrospectively	Turkey Turkey Turkey	Upper-middle-income economies Western As Upper-middle-income economies Western As Upper-middle-income economies Western As	sia 2008-2012 sia 2008-2012 sia Jan/2010-Dec/2012	Unclear/Not reported Unclear/Not reported Unclear/Not reported	All ages60.2All ages60.2All ages62.9	Unclear/Not reported Hospital-based Unclear/Not reported Hospital-based Unclear/Not reported Hospital-based	Emergency department Emergency department Unclear/Not reported	Hospitalized Hospitalized Hospitalized	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Mod Unclear/Not reported Mod CCHF virus RNA in the blood Low samples through RT-PCR	derate risk of bias Humans-Prevalence derate risk of bias Humans-CFR v risk of bias Humans-Prevalence		CCHFV suspected cases Positive among CCHFV suspected cases CCHFV suspected cases		Classical RT-PCR Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA Viral RNA	Current infec Current infec Current infec	ctionSerumctionSerumectionSerum
Erenler, 2015	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Retrospectively	Turkey	Upper-middle-income economies Western As	sia Jan/2010-Dec/2012	Unclear/Not reported	All ages 62.9	Unclear/Not reported Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	evaluation were considered confirmed CCHF cases. CCHF virus RNA in the blood samples through RT-PCR evaluation were considered	v risk of bias Humans-CFR		Positive among CCHFV suspected cases		Classical RT-PCR	Viral RNA	Current infec	ction Serum
Ergönül, 2004	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia spring and summer of 2002-2003	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Unclear/Not reported Hospital-based	Tertiary hospital	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Patients with acute febrile syndrome characterized by malaise, bleeding, leukopenia, and thrombocytopenia were admitted to	Unclear/Not reported	Unclear/Not reported	confirmed CCHF cases. Unclear/Not reported	derate risk of bias Humans-Prevalence		CCHFV suspected cases		Classical RT-PCR	Viral RNA	Current infec	ction Organ tissue, Serum
Ergönül, 2004	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia spring and summer of 2002-2003	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Unclear/Not reported Hospital-based	Tertiary hospital	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	our clinic during the spring and summer of 2002 and 2003. Patients with acute febrile syndrome characterized by malaise,	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Mod	derate risk of bias Humans-Prevalence		CCHFV suspected cases		Indirect ELISA	IgG	Past infection	on Serum
																		bleeding, leukopenia, and thrombocytopenia were admitted to our clinic during the spring and summer of 2002 and 2003.											
Ergönül, 2004	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia spring and summer of 2002-2003	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Unclear/Not reported Hospital-based	Tertiary hospital	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Patients with acute febrile syndrome characterized by malaise, bleeding, leukopenia, and thrombocytopenia were admitted to our clinic during the spring and	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Mod	derate risk of bias Humans-Prevalence		CCHFV suspected cases		Indirect ELISA	IgM	Recent infec	tion Serum
Ergonul, 2006	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia spring and summer of 2002-2004	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Unclear/Not reported Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Summer of 2002 and 2003. Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Patients with positive IgM and/or Mod PCR results for CCHFV in blood	derate risk of bias Humans-CFR		Positive among CCHFV suspected cases		Classical RT-PCR	Viral RNA	Current infec	ection Organ tissue, Serum
																					study. Recent or current CCHFV infection was confirmed by demonstrating seroconversion, or at least a four-fold increase in ontibody time in paired comm								
Ergonul, 2006	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia spring and summer of 2002-2004	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Unclear/Not reported Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Patients with positive IgM and/or Mod	derate risk of bias Humans-CFR		Positive among CCHFV suspected cases		Indirect ELISA	IgG	Past infection	.on Organ tissue, Serum
																					or tissue were included in the study. Recent or current CCHFV infection was confirmed by demonstrating seroconversion, or								
																					antibody titre in paired serum samples, or IgM antibodies with ELISA in a single sample [8].								
Ergonul, 2006	Cross sectional	Non probabilistic Consecutive sampling	g Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia spring and summer of 2002-2004	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Unclear/Not reported Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Patients with positive IgM and/or Mod PCR results for CCHFV in blood or tissue were included in the study. Recent or current CCHFV infection was confirmed by	derate risk of bias Humans-CFR		Positive among CCHFV suspected cases		Indirect ELISA	IgM	Recent infec	ion Organ tissue, Serum
																					demonstrating seroconversion, or at least a four-fold increase in antibody titre in paired serum samples, or IgM antibodies with ELISA in a single sample [8].								
Ergönül, 2006	Cross sectional	Non probabilistic Consecutive sampling	g Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia 2003	35	Adults: 19+ years 92	Urban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Specific CCHF IgM and IgG Low antibodies were studied by enzyme- linked immunosorbent assay (ELISA) and a titer of at least 1/64	v risk of bias Humans-Prevalence		High risk individuals		Indirect ELISA	IgG	Past infection	n Serum
Ergonul, 2007 Ergonul, 2007 Ertugrul, 2009	Cross sectional Cross sectional Hospital outbreak	Non probabilisticConsecutive samplingNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	g Monocenter g Monocenter g Monocenter	Prospectively Prospectively Retrospectively	Turkey Turkey Turkey	Upper-middle-income economies Western As Upper-middle-income economies Western As Upper-middle-income economies Western As	sia Oct/2003 sia Oct/2003 sia May/2007-Jun/2008	30 30 30.7	Unclear/Not reported32Unclear/Not reported32All ages58	Unclear/Not reported Hospital-based Unclear/Not reported Hospital-based Unclear/Not reported Hospital-based Urban/rural Hospital-based	Tertiary hospital Tertiary hospital Unclear/Not reported	Ambulatory Ambulatory Hospitalized	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable clinical findings of the disease	Not applicable Not applicable tick bites and/or suspicious cases	Not applicable Not applicable Unclear/Not reported	was considered positive Unclear/Not reported Mod Unclear/Not reported Mod Cases positive for CCHF virus IgM Low	derate risk of bias Humans-Prevalence derate risk of bias Humans-Prevalence v risk of bias Humans-Prevalence		Healtcare workers Healtcare workers CCHFV suspected cases		Indirect ELISA Indirect ELISA Classical RT-PCR	IgG IgM Viral RNA	Past infection Recent infec Current infec	n Serum ction Serum ection Serum
																		(acute febrile syndrome characterized by malaise, bleeding, leukopenia, and thrombocytopenia) were included in the study.	as defined by the European Network for Diagnostics of 'Imported' Viral Diseases (ENIVD).15		and/or positive real-time polymerase chain reaction (realtime PCR)								
Ertugrul, 2009	Hospital outbreak	Non probabilistic Consecutive sampling	g Monocenter	Retrospectively	Turkey	Upper-middle-income economies Western As	sia May/2007-Jun/2008	30.7	All ages 58	Urban/rural Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	clinical findings of the disease (acute febrile syndrome characterized by malaise, bleeding, leukopenia, and thrombocytopenia) were included in the study.	tick bites and/or suspicious cases as defined by the European Network for Diagnostics of 'Imported' Viral Diseases (ENIVD).15	Unclear/Not reported	Cases positive for CCHF virus IgM Low and/or positive real-time polymerase chain reaction (realtime PCR)	v risk of bias Humans-CFR		Positive among CCHFV suspected cases		Classical RT-PCR	Viral RNA	Current infec	tion Serum
Ertugrul, 2012	Cross sectional	Non probabilistic Consecutive sampling	g Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	sia Unclear/Not reported	Unclear/Not reported	Adults: 19+ years 61.8	Urban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	detection and confirmation of IgG Mod CCHFV positivity by VectoCrimean CHFIgG ELISA diagnostic kit	derate risk of bias Humans-Prevalence		Apparently healthy individuals		Indirect ELISA	IgG	Past infection	n Serum
Estrada-Peña, 2012 Faghihi, 2018 Faghihi, 2018 Faghihi, 2018 Faghihi, 2018	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilisticCaptureNon probabilisticCaptureNon probabilisticCaptureNon probabilisticConsecutive samplingNon probabilisticConsecutive sampling	Monocenter Multicenter g Multicenter g Multicenter	Prospectively Prospectively Prospectively Prospectively Prospectively	Spain Iran Iran Iran Iran	High-income economies Southern En Upper-middle-income economies Southern A Upper-middle-income economies Southern A	Curope Nov/2010 Asia 2015 Asia 2015 Asia 2015 Asia 2015 Asia 2015	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not Unclear/Not reported Unclear/Not	reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)	Unclear/ Not reported Unclear/ Not reported Unclear/ Not reported Not applicable	Unclear/ Not reported Unclear/ Not reported Unclear/ Not reported Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Moo	derate risk of biasIndividual tickderate risk of biasIndividual tickderate risk of biasIndividual tickderate risk of biasOther animalsderate risk of biasOther animals	Hyalomma Hyalomma Rhipicephalus Artiodactyla	Hyalomma lusitanicum Hyalomma anatolicum Rhipicephalus sanguineus Cow		Classical RT-PCR Classical RT-PCR Classical RT-PCR Indirect ELISA Indirect ELISA	Viral RNA Viral RNA Viral RNA IgG	Current infec Current infec Current infec Past infection Past infection	ctionTicksctionTickscctionTicksonSerumionSerum
Faghihi, 2018 Fajs, 2014	Cross sectional Cross sectional	Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	g Multicenter g Multicenter	Prospectively Prospectively	Iran Iran Replublic of Kosovo	Upper-middle-income economies Southern A Upper-middle-income economies UNSD uncl	Asia 2015 Classified 2012-2013	Unclear/Not reported 45	Unclear/Not reported Unclear/Not All ages 46	reported Unclear/Not reported Community-based Urban/rural Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Mod Unclear/Not reported Mod For humans, presence of anti- Low CCHFV IgG antibodies with VectoCrimea - CHF - IgG ELISA (Vector Past, Neuroibing) Russia)	derate risk of bias Other animals v risk of bias Humans-Prevalence	Artiodactyla	Sheep Apparently healthy individuals		Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG	Past infection Past infection	n Serum n Serum
																					for animals, Animal sera were tested with an in-house immunofluorescence assay (IFA) using CCHFV strain Hoti-infected								
																					slides. Bovine antibodies were detected with Anti-Bovine IgG (whole molecule)–FITC antibody (Sigma), sheep antibodies were detected with rabbit Anti Sheep								
																					IgG (H+L)–FITC antibody (KPL), goat antibodies were detected with Anti-Goat IgG (whole molecule)– FITC antibody (Sigma), chicken								
																					Chicken IgG (whole molecule)–FITC antibody (Sigma). Samples were initially diluted 1:10. Positive samples were further								
																					of CCHFV RNA was determined and quantified by a quantitative Real-Time RT-PCR protocol described by Duh et al. [13]. Real-								
Fajs, 2014	Cross sectional	Non probabilistic Capture	Multicenter	Prospectively	Replublic of Kosovo	Upper-middle-income economies UNSD uncl	assified 2012-2013	Unclear/Not reported	Unclear/Not reported Unclear/Not	reported Urban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Ticks were processed as described	bed by Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	were further processed with a nested RT-PCR protocol described by Rodriguez et al. [14] For humans, presence of anti-	derate risk of bias Individual tick	Unspecified tick	Unspecified tick		Real Time RT-PCR	Viral RNA	Current infe	ection Ticks
												Appleate (in not in the nospital)	Durmisi et al. [12]	roor reported							CCHFV IgG antibodies with VectoCrimea - CHF - IgG ELISA (Vector Best, Novosibirsk, Russia); for animals, Animal sera were tested with an in-house								
																					immunofluorescence assay (IFA) using CCHFV strain Hoti-infected Vero E6 cells, fixed on microscope slides. Bovine antibodies were detected with Anti-Bovine LeC								
																					(whole molecule)–FITC antibody (Sigma), sheep antibodies were detected with rabbit Anti-Sheep IgG (H+L)–FITC antibody (KPL),								
																					Anti-Goat IgG (whole molecule)– FITC antibody (Sigma), chicken antibodies were detected with Anti- Chicken IgG (whole molecule)–FITC antibody (Sigma)								
																					Samples were initially diluted 1:10. Positive samples were further diluted to 1:320; for ticks, Presence of CCHFV RNA was determined								
																					and quantified by a quantitative Real-Time RT-PCR protocol described by Duh et al. [13]. Real- Time RT-PCR positive samples were further processed with a								
																					by Rodriguez et al. [14]								

Fajs, 2014 Cro	oss sectional Nor	n probabilistic Consecutive sampling 1	Multicenter Prospect	tively Replublic of Kosova vively Replublic of Kosova	o Upper-middle-income	conomies UNSD unclassified 2012	2-2013	Unclear/Not reported	Unclear/Not reported Unit	clear/Not reported Urban/rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable Image: Not applicable Image: Not applicable Image: Not applicable Not applicable Image: Not applicable Image: Not applicable	Not applicable	Not applicable	Not applicable Not applicable Not applicable	Not applicable	Not applicable	For humans, presence of anti- CCHFV IgG antibodies with VectoCrimea - CHF - IgG ELISA (Vector Best, Novosibirsk, Russia) for animals, Animal sera were tested with an in-house immunofluorescence assay (IFA) using CCHFV strain Hoti-infected Vero E6 cells, fixed on microscope slides. Bovine antibodies were detected with Anti-Bovine IgG (whole molecule)–FITC antibody (Sigma), sheep antibodies were detected with rabbit Anti-Sheep IgG (H+L)–FITC antibody (KPL), goat antibodies were detected with Anti-Goat IgG (whole molecule)– FITC antibody (Sigma), chicken antibodies were detected with Anti Chicken IgG (whole molecule)– FITC antibody (Sigma), chicken antibodies were detected with Anti Chicken IgG (whole molecule)–FITC antibody (Sigma). Samples were initially diluted 1:10 Positive samples were further diluted to 1:320; for ticks, Presence of CCHFV RNA was determined and quantified by a quantitative Real-Time RT-PCR protocol described by Duh et al. [13]. Real- Time RT-PCR protocol described by Rodriguez et al. [14] For humans, presence of anti- CCHFV IgG antibodies with VectoCrimea - CHF - IgG ELISA (Vector Best, Novosibirsk, Russia) for animals, Animal sera were tested with an in-house immunofluorescence assay (IFA) using CCHFV strain Hoti-infected Vero E6 cells, fixed on microscope slides. Bovine antibodies were detected with Anti-Bovine IgG (whole molecule)–FITC antibody (Sigma), sheep antibodies were detected with anti-Sheep IgG (H+L)–FITC antibody (Sigma), Samples were detected with Anti Chicken IgG (whole molecule)– FITC antibody (Sigma), chicken antibodies were detected with Anti Chicken IgG (whole molecule)–FITC antibody (Sigma). Samples were initially diluted 1:10 Positive samples were further diluted to 1:320; for ticks, Presence of CCHFV RNA was determined and quantified by a quantitative Real-Time RT-PCR protocol described by Duh et al. [13]. Real- Time RT-PCR positive samples	Moderate risk of bias Other animals	Artiodactyla Image: Artiodactyla Image: Artiodactyla Image: Artiodactyla Image: Artiodactyla	Goat		Indirect immunofluorescence assay	IgG	Past infection Serum
Fajs, 2014CrossFajs, 2014CrossFakoorziba, 2006CrossFakoorziba, 2006CrossFakoorziba, 2012CrossFakoorziba, 2012CrossFakoorziba, 2015Cross	oss sectionalNoross sectionalNoross sectionalNoross sectionalProloss sectionalProloss sectionalProl	n probabilistic Consecutive sampling 1 n probabilistic Consecutive sampling 1 n probabilistic Consecutive sampling 1 pababilistic Capture 1	Multicenter Prospection Multicenter Prospection Monocenter Retrospection Monocenter Retrospection Multicenter Prospection Multicenter Prospection	tively Replublic of Kosova Replublic of Kosova and Kosova Iran tively Iran tively Iran tively Iran tively Iran	b Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income	conomiesUNSD unclassified2012conomiesUNSD unclassified2012aconomiesSouthern Asia2001aconomiesSouthern Asia2001aconomiesSouthern Asia2001aconomiesSouthern Asia2001aconomiesSouthern AsiaMay/aconomiesSouthern AsiaMay/aconomiesSouthern AsiaMay/	2-2013 1-2004 y/2010-OCT/2010 y/2010-OCT/2010 y/2013-Oct/2013	Unclear/Not reported	Image: Not reported Unclear/Not reported Unclear/Not reported All ages 71. All ages 71. Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	clear/Not reported Urban/rural I 1 Urban/rural 1 1 Urban/rural 1 1 Urban/rural clear/Not reported Urban/rural clear/Not reported Urban/rural	Community-based Market	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Unclear/ Not reported Unclear/ Not reported Unclear/ Not reported	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNoNot applicableNoNot applicableNoNot applicable	Not applicable	Not applicable	Not applicable Not applicable Unclear/Not reported Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Image:	Not applicable Not applicable An acutely ill person with cli observed signs and symptom sudden onset of fever, headar myalgia, and bleeding An acutely ill person with cli observed signs and symptom sudden onset of fever, headar myalgia, and bleeding Not applicable Not applicable Not applicable	were further processed with a nested RT-PCR protocol described by Rodriguez et al. [14] For humans, presence of anti- CCHFV IgG antibodies with VectoCrimea - CHF - IgG ELISA (Vector Best, Novosibirsk, Russia) for animals, Animal sera were tested with an in-house immunofluorescence assay (IFA) using CCHFV strain Hoti-infected Vero E6 cells, fixed on microscope slides. Bovine antibodies were detected with Anti-Bovine IgG (whole molecule)–FITC antibody (Sigma), sheep antibodies were detected with rabbit Anti-Sheep IgG (H+L)–FITC antibody (KPL), goat antibodies were detected with Anti-Goat IgG (whole molecule)– FITC antibody (Sigma), chicken antibodies were detected with Anti- Chicken IgG (whole molecule)–FITC antibody (Sigma). Samples were initially diluted 1:10 Positive samples were further diluted to 1:320; for ticks, Presence of CCHFV RNA was determined and quantified by a quantitative Real-Time RT-PCR protocol described by Duh et al. [13]. Real- Time RT-PCR positive samples were further processed with a nested RT-PCR protocol described by Rodriguez et al. [14] inically person with CCHFV was rescheduled as individuals who met the criteria of probable case and positive for ELISA assay of IgM and/or raising titers of IgG antibodies or with a positive test for RT-PCR infection with CCHFV was rescheduled as individuals who cche, met the criteria of probable case and positive for ELISA assay of IgM and/or raising titers of IgG antibodies or with a positive test for RT-PCR infection with CCHFV was reverse transcription PCR technique infection with CCHFV irus using reverse transcription PCR technique infection of the presence of CCHEV infection by using RT-	Moderate risk of biasOther animalsModerate risk of biasHumans-PrevalenceLow risk of biasHumans-PrevalenceLow risk of biasIndividual tickModerate risk of biasIndividual tick	Image: state stat	Sheep Sheep C Sheep CCHFV suspected cases CCHFV suspected cases Positive among CCHFV suspected cases Hyalomma anatolicum Hyalomma marginatum Hyalomma asiaticum		Indirect immunofluorescence assay Indirect immunofluorescence assay Indirect ELISA Indirect ELISA Indirect ELISA Classical RT-PCR Classical RT-PCR Classical RT-PCR	IgG IgG IgM	Past infectionSerumPast infectionSerumImage: state
Fakoorziba, 2015 Cross Fares, 2019 Cross Farhadpour, 2016 Cross Farhadpour, 2016 Cross	oss sectional Prol oss sectional Prol oss sectional Prol oss sectional Prol	babilistic Capture I babilistic Capture I babilistic Capture I	Multicenter Prospection Multicenter Prospection Multicenter Prospection Multicenter Prospection	tively Iran Tunisia tively Iran tively Iran	Upper-middle-income Lower-middle income Upper-middle-income Upper-middle-income	economies Southern Asia May/ economies Northern Africa Mar/ economies Southern Asia Oct/2	y/2013-Oct/2013 t/2017-May/2017 /2012-Sep/2013	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Una	clear/Not reported Urban/rural clear/Not reported Urban/rural clear/Not reported Rural	Community-based N Community-based N Community-based N Community-based N	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	 identification microscopic method for species identification Tick species identification was performed on the whole tick load of a random sample of the captured tortoise using the identification keys of Hoogstraal [20]; Tick species were identified using a stereo microscope and valid taxonomic keys coupled with trained acarologists support [1, 17]. Tick species were identified using a 	No Not applicable No Collected ticks were pooled according to the trapping location with a maximum of 10 individuals per pool the non-engorged ticks and two per pool for engorged ticks, resulting in a total of 46 pools. No No No Not applicable	Not applicable Engorgement For Not applicable Not applicable	Not applicable 2; 10 Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	CCHFV infection by using RT-PCR Detection of the presence of CCHFV infection by using RT-PCR Positivity for RT-PCR by RNA positivity detection of CCHF viral genomes by reverse transcription-polymerase chain reaction (RT-PCR) detection of CCHF viral genomes	Moderate risk of bias Individual tick Moderate risk of bias Individual tick Moderate risk of bias Individual tick	Hyalomma	Hyalomma marginatum Hyalomma aegyptium Hyalomma anatolicum Hyalomma asiaticum		Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA Viral RNA Viral RNA	Current infection Ticks Current infection Ticks Current infection Ticks Current infection Ticks
Farhadpour, 2016CroFarhadpour, 2016CroFarhadpour, 2016CroFarhadpour, 2016CroFernández de Mera, 2017CroFernández de Mera, 2017Cro	oss sectional Prol oss sectional Prol oss sectional Prol oss sectional Nor oss sectional Nor	babilistic Capture I babilistic Capture I babilistic Capture I n probabilistic Capture I n probabilistic Capture I	Multicenter Prospect Multicenter Prospect Multicenter Prospect Multicenter Unclear/	tively Iran tively Iran tively Iran tively Iran V Not reported Greece V Not reported Greece	Upper-middle-income Upper-middle-income Upper-middle-income High-income economic	s Southern Asia Oct/2 conomies Southern Asia Oct/2 sconomies Southern Asia Oct/2 s Southern Asia Oct/2 s Southern Europe Uncl	/2012-Sep/2013 /2012-Sep/2013 /2012-Sep/2013 clear/Not reported clear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una	clear/Not reported Rural clear/Not reported Rural clear/Not reported Urban/rural clear/Not reported Urban/rural	Community-based N Community-based N Community-based N Community-based N Community-based N Community-based N	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	 Tick species were identified using a stereo microscope and valid taxonomic keys coupled with trained acarologists support [1, 17]. Tick species were identified using a stereo microscope and valid taxonomic keys coupled with trained acarologists support [1, 17]. Tick species were identified using a stereo microscope and valid taxonomic keys coupled with trained acarologists support [1, 17]. Tick species were identified using a stereo microscope and valid taxonomic keys coupled with trained acarologists support [1, 17]. Collected ticks were classified (Manill 1998) Collected ticks were classified (Manill 1998) 	No Not applicable c, , , , , , , , , , , , , , , , , , ,	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	detection of CCHF viral genomes by reverse transcription-polymerase chain reaction (RT-PCR) detection of CCHF viral genomes by reverse transcription-polymerase chain reaction (RT-PCR) detection of CCHF viral genomes by reverse transcription-polymerase chain reaction (RT-PCR) detection of RNA-CCHFV by RT-PCR Identification of RNA-CCHFV by RT-PCR	Moderate risk of bias Individual tick Moderate risk of bias Individual tick Moderate risk of bias Individual tick Moderate risk of bias Individual tick	Hyalomma Hyalomma Hyalomma Rhipicephalus Dermacentor Haemaphysalis	Hyalomma asiaticum Hyalomma marginatum Rhipicephalus sanguineus Dermacentor marginatus Haemaphysalis parva		Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA Viral RNA Viral RNA Viral RNA	Current infection Ticks
Fernández de Mera, 2017CroFernández de Mera, 2017CroFilipe, 1985CroFilipe, 1985CroFisher-Hoch, 1992CroFisher-Hoch, 1992CroFisher-Hoch, 1992CroFisher-Hoch, 1992CroFisher-Hoch, 1992CroFöldes, 2019CroFöldes, 2019CroFöldes, 2019CroFöldes, 2019CroGadia, 2017CroGandhi, 2011Co	oss sectional Nor oss sectional Nor	n probabilistic Capture N n probabilistic Capture N n probabilistic Consecutive sampling N n probabilistic Capture N n probabilistic Capture N n probabilistic Capture N n probabilistic Simple random sampling N n probabilistic Consecutive sampling N n probabilistic Capture N n probabilistic Capture N n probabilistic Capture N n probabilistic Cipture N n probabilistic Capture N n probabilistic Cipture N n probabilistic Capture N n probabilistic Capture N n probabilistic Consecutive sampling N	Multicenter Unclear/ Multicenter Unclear/ Unclear/ Not reported Unclear/ Unclear/ Not reported Unclear/ Multicenter Prospecti Multicenter Prospecti	/ Not reportedGreece/ Not reportedPortugal/ Not reportedPortugal/ Not reportedPortugaltivelySouth AfricativelySouth AfricativelySouth AfricativelySouth AfricativelySouth AfricativelySouth AfricativelyHungarytivelyHungarytivelyHungarytivelyHungarytivelyIndia	High-income economia High-income economia High-income economia High-income economia Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income High-income economia High-income economia High-income economia Lower-middle income	s Southern Europe Uncl s Southern Europe Uncl s Southern Europe Uncl s Southern Europe Uncl s Southern Europe Uncl conomies Southern Africa Jan/1 conomies Southern Africa Jan/1 conomies Southern Africa Jan/1 conomies Southern Africa Jan/1 s Eastern Europe 2011 s Eastern Europe 2011 s Eastern Europe 2011 s Eastern Europe 2011 s Central Africa Jan/2 conomies Southern Asia Jun/2 conomies Southern Asia Jun/2	clear/Not reported clear/Not reported clear/Not reported /1986-Oct/1986 /1986-Oct/1986 /1986-Oct/1986 /1986-Oct/1986 /1986-Oct/1986 /1986-Oct/1986 /1986-Oct/1986 /1986-Oct/1986 /1986-Oct/1986 1-2013 1-2013 1-2013 1-2013 1-2013 /2008-Dec/2010 /2013-Jul/2013 /2011	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported All ages Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	clear/Not reported Urban/rural clear/Not reported Urban/rural clear/Not reported Unclear/Not repor clear/Not reported Rural clear/Not reported Urban/rural 6 Unclear/Not reported Vinclear/Not reported Vinclear/Not repor	Community-based N community-based N ed Community-based N ed Community-based N ed Community-based N ed Hospital-based N ed Community-based N	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported Unclear/Not reported Unclear/Not reported Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)Unclear/Not reportedUnclear/Not reportedNot applicable (if not in the hospital)Not applicable (if not in the hospital)	Collected ticks were classified (Manill 1998) Collected ticks were classified (Manill 1998) Not applicable Not applicable	la, No Not applicable la, No Not applicable la, No Not applicable Not applicable	Not applicable	Not applicable Not ap	Not applicable Not ap	Not applicable Unclear/Not reported Unclear/Not reported a unclear/Not reported a a a be of d a a a be a; in atact	Not applicable Unclear/Not reported Unclear/Not reported Unclear/Not reported	Identification of RNA-CCHFV by RT-PCR Identification of RNA-CCHFV by RT-PCR detection of antibodies by PRN and IFA detection of antibodies by PRN and IFA Unclear/Not reported	Moderate risk of biasIndividual tickModerate risk of biasIndividual tickModerate risk of biasHumans-PrevalendModerate risk of biasOther animalsModerate risk of biasHumans-PrevalendModerate risk of biasHumans-PrevalendModerate risk of biasHumans-PrevalendModerate risk of biasOther animalsModerate risk of biasHumans-PrevalendModerate risk of biasHumans-PrevalendModerate risk of biasHumans-PrevalendModerate risk of biasHumans-PrevalendModerate risk of biasHumans-Prevalend	Haemaphysalis Image: Second Secon	Haemaphysalis sulcata Rhipicephalus sanguineus Apparently healthy individuals Goat Apparently healthy individuals Healtcare workers Cattle Goat Sheep Apodemus agrarius Apodemus flavicollis Apodemus sylvaticus Myodes glareolus Febrile patients Positive among CCHFV suspected cases Mixed human categories	CCHFV positive case contact, Healtcare workers	Classical RT-PCR Classical RT-PCR Plaque reduction neutralization test (PRNT) Indirect immunofluorescence assay Immunoflorescent assay, Dot-Blot Assay Immunoflorescent assay, Dot-Blot Assay Immunoflorescent assay, Dot-Blot Assay Real Time RT-PCR Real Time RT-PCR Culture	Viral RNA Viral RNA Antibodies Antibodies IgG IgG IgG IgG IgG IgG IgG IgG IgG IgG	Current infectionTicksCurrent infectionTicksPast infectionSerumPast infectionSerumCurrent infectionSerumCurrent infectionSerumCurrent infectionSerumCurrent infectionSerumCurrent infectionSerumCurrent infectionSerum
Gargili, 2011CroGargili, 2011CroGargili, 2011CroGargili, 2011CroGazi, 2016CroGergova, 2012Cro	oss sectionalNonoss sectionalNonoss sectionalNonoss sectionalProloss sectionalNon	n probabilistic Consecutive sampling M n probabilistic Consecutive sampling M n probabilistic Consecutive sampling M n probabilistic Capture M obabilistic Simple random sampling M n probabilistic Capture M	MulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspecti	tively Turkey tively Turkey tively Turkey tively Turkey tively Turkey tively Bulgaria	Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income Upper-middle-income	conomies Western Asia 2006 conomies Eastern Europe May/	6-2008 6-2008 6-2008 6-2008 /2012-Dec/2012 y/2006-Jun/2010	60.5 60.5 60.5 Unclear/Not reported 49.16 Unclear/Not reported	Unclear/Not reported 44. Unclear/Not reported 44. Unclear/Not reported 44. All ages 48. Unclear/Not reported Unc	55 Rural 55 Rural 55 Rural clear/Not reported Rural 1 Rural clear/Not reported Unclear/Not reported	Community-based N Community-based N Community-based N Community-based N ed Community-based N	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable Not applicable Unclear/ Not reported Not applicable Unclear/ Not reported	Not applicable Not applicable Not applicable Not applicable No Not applicable Not applicable Not applicable No Not applicable Not applicable Not applicable No Not applicable No Not applicable No Not applicable No Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable	with tissues, blood, or other biological fluids from a possible infected animal (e.g. abattoir workers, livestock owners, veterinarians) within 14 days p the onset of symptoms; or c) Healthcare workers in healthcar facilities, with a history of exposure to a suspect, probable laboratoryconfirmed CCHF cas within 14 days prior to the onset symptoms. Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	ly rior re e, or se, et of Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasHumans-PrevalenceModerate risk of biasHumans-PrevalenceModerate risk of biasTick poolsModerate risk of biasHumans-PrevalenceModerate risk of biasIndividual tick	e Internet in the second secon	Apparently healthy individuals Apparently healthy individuals Positive tick pool species Apparently healthy individuals Boophilus calcaratus	Hyalomma marginatum, Rhipicephalus annulatus, Rhipicephalus bursa	Indirect ELISA Indirect ELISA Indirect ELISA Classical RT-PCR Immunoflorescent assay Immunoflorescence hemocytes (IFH) assay, Classical RT-PCR	IgG IgM Viral RNA IgG Viral antigen, Viral RNA	Past infectionSerumRecent infectionSerumCurrent infectionSerumCurrent infectionTicksPast infectionSerumCurrent infectionTicks
Gergova, 2012CroGergova, 2012CroGergova, 2012CroGergova, 2012CroGergova, 2012CroGergova, 2013CroGergova, 2013CroGergova, 2013CroGergova, 2013CroGergova, 2013CroGergova, 2013CroGergova, 2013CroGergova, 2013CroGergova, 2013CroGergova, 2014CroGevorgyan, 2019CroGevorgyan, 2019CroGevorgyan, 2019CroGevorgyan, 2019CroGevorgyan, 2019CroGevorgyan, 2019CroGonzalan, 2007Cro	oss sectionalNonoss sectionalProloss sectionalNon	n probabilistic Capture 1 babilistic 1 babilisti 1 babilistic 1 babilisti 1 babilisti 1 babi	MulticenterProspecti	tively Bulgaria tively Armenia tively Armenia tively Armenia tively Armenia tively Turkey	Upper-middle-income Upper-middle-income	conomies Eastern Europe May/ conomies Eastern Europe 2006 conomies Eastern Europe 2011 conomies Western Asia Apr/2 conomies Apr/2	y/2006-Jun/2010 y/2006-Jun/2010 y/2006-Jun/2010 y/2006-Jun/2010 6-2012 6-2012 6-2012 6-2012 1-2012 1-2012 1/2016-oct/2016 //2016-oct/2016 //2016-oct/2016 //2016-oct/2016 //2016-oct/2016 //2016-oct/2016 //2016-oct/2016	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not r	clear/Not reported Unclear/Not repor clear/Not reported Rural clear/Not reported Rural	ed Community-based N ed Community-based N ed Community-based N ed Community-based N ed Community-based N ed Community-based N Community-based N	Not applicable (if not in the hospital) Hospital	Not applicable (if not in the hospital) Not applicable (i	Unclear/ Not reported Not applicable Not applicable Not applicable Not applicable	NoNot applicableNoNot applicableNo <t< td=""><td>Not applicable Not ap</td><td>Not applicable Not ap</td><td>Not applicableNot applicable</td><td>Not applicableNot applicableA suspected case was a person whohad a history of being in Tokatwithin 2 weeks of the onset ofillness, between May 2002 andOctober 2003, and had at least 3 ofthe following symptoms: acuteonset of general weakness,unexplained fever, arthralgia,nausea, and headache, abnormalbleeding such as petechial rash,echymoses, epitaxis, intestinalbleeding or heamoptysis, and atleast one of the followinglaboratory signs- thrombi cut open in (plateletcount lower than or equal100x10^9/L),-leucopenia (leucocyte count loweror equal to</td><td>Not applicableNot applicable</td><td>Unclear/Not reported Unclear/Not reported Sunclear/Not reported Unclear/Not reported</td><td>Moderate risk of biasIndividual tickModerate risk of biasOther animalsModerate risk of biasIndividual tickModerate risk of biasIndividual tickIndividual tickIndividual tickModerate risk of biasIndividual tickModerate risk of bias<</td><td>Dermacentor Hyalomma Ixodes Ixodes Rhipicephalus Rhipicephalus Hyalomma Ixodes Rhipicephalus Hyalomma Ixodes Rhipicephalus Hyalomma Ixodes Rhipicephalus Artiodactyla e Dermacentor Hyalomma Ixodes Rhipicephalus Ixodes Ixo</td><td>Dermacentor marginatus Hyalomma marginatum marginatum Hyalomma punctata Ixodes daminii Ixodes ricinus Rhipicephalus bursa Rhipicephalus sanguineus Hyalomma marginatum marginatum Ixodes ricinus Rhipicephalus sanguineus Cattle Apparently healthy individuals Dermacentor marginatus Hyalomma marginatum Ixodes ricinus Rhipicephalus annulatus Rhipicephalus bursa Rhipicephalus bursa CCHFV suspected cases CCHFV suspected cases</td><td></td><td>Immunofluorescence hemocytes (IFH) assay, Classical RT-PCR Immunofluorescence hemocytes (IFH) assay, Classical RT-PCR Indirect immunofluorescence assay Indirect immunofluorescence assay Direct ELISA Direct ELISA Direct ELISA Direct ELISA Classical RT-PCR</td><td>Viral antigen, Viral RNA Viral antigen, Viral RNA Antibodies Antibodies Viral antigen Viral antigen Viral antigen Viral antigen Viral antigen Viral antigen Viral RNA Viral RNA</td><td>Current infectionTicksCurrent infectionSerumPast infectionSerumCurrent infectionTicksCurrent infectionSerum</td></t<>	Not applicable Not ap	Not applicable Not ap	Not applicableNot applicable	Not applicableNot applicableA suspected case was a person whohad a history of being in Tokatwithin 2 weeks of the onset ofillness, between May 2002 andOctober 2003, and had at least 3 ofthe following symptoms: acuteonset of general weakness,unexplained fever, arthralgia,nausea, and headache, abnormalbleeding such as petechial rash,echymoses, epitaxis, intestinalbleeding or heamoptysis, and atleast one of the followinglaboratory signs- thrombi cut open in (plateletcount lower than or equal100x10^9/L),-leucopenia (leucocyte count loweror equal to	Not applicableNot applicable	Unclear/Not reported Unclear/Not reported Sunclear/Not reported Unclear/Not reported	Moderate risk of biasIndividual tickModerate risk of biasOther animalsModerate risk of biasIndividual tickModerate risk of biasIndividual tickIndividual tickIndividual tickModerate risk of biasIndividual tickModerate risk of bias<	Dermacentor Hyalomma Ixodes Ixodes Rhipicephalus Rhipicephalus Hyalomma Ixodes Rhipicephalus Hyalomma Ixodes Rhipicephalus Hyalomma Ixodes Rhipicephalus Artiodactyla e Dermacentor Hyalomma Ixodes Rhipicephalus Ixodes Ixo	Dermacentor marginatus Hyalomma marginatum marginatum Hyalomma punctata Ixodes daminii Ixodes ricinus Rhipicephalus bursa Rhipicephalus sanguineus Hyalomma marginatum marginatum Ixodes ricinus Rhipicephalus sanguineus Cattle Apparently healthy individuals Dermacentor marginatus Hyalomma marginatum Ixodes ricinus Rhipicephalus annulatus Rhipicephalus bursa Rhipicephalus bursa CCHFV suspected cases CCHFV suspected cases		Immunofluorescence hemocytes (IFH) assay, Classical RT-PCR Indirect immunofluorescence assay Indirect immunofluorescence assay Direct ELISA Direct ELISA Direct ELISA Direct ELISA Classical RT-PCR	Viral antigen, Viral RNA Antibodies Antibodies Viral antigen Viral antigen Viral antigen Viral antigen Viral antigen Viral antigen Viral RNA Viral RNA	Current infectionTicksCurrent infectionSerumPast infectionSerumCurrent infectionTicksCurrent infectionSerum
Gonzalan, 2007 Cro Gonzalan, 2007 Cro	oss sectional Nor	n probabilistic Consecutive sampling I	Multicenter Prospect	tively Turkey	Upper-middle-income Upper-middle-income	conomies Western Asia May/ sconomies Western Asia May/	y/2002-Oct/2003	Unclear/Not reported	Unclear/Not reported Unv	clear/Not reported Urban/rural	Hospital-based F Hospital-based F	Hospital	Unclear/Not reported	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported	A suspected case was a person who had a history of being in Tokat within 2 weeks of the onset of illness, between May 2002 and October 2003, and had at least 3 of the following symptoms: acute onset of general weakness, unexplained fever, arthralgia, nausea, and headache, abnormal bleeding such as petechial rash, echymoses, epitaxis, intestinal bleeding or heamoptysis, and at least one of the following laboratory signs - thrombi cut open in (platelet count lower than or equal 100x10^9/L), -leucopenia (leucocyte count lower or equal to 4x10^9/L) -elevated transaminases (upper than or equal 2 times normal) A suspected case was a person who had a history of being in Tokat within 2 weeks of the onset of illness, between May 2002 and October 2003, and had at least 3 of the following symptoms: acute onset of general weakness, unexplained fever, arthralgia, nausea, and headache, abnormal bleeding such as petechial rash, echymoses, epitaxis, intestinal bleeding or heamoptysis, and at least one of the following laboratory signs - thrombi cut open in (platelet count lower than or equal 100x10^9/L), -leucopenia (leucocyte count lower or equal to 4x10^9/L) -elevated transaminases (upper in (platelet count lower than or equal 100x10^9/L), -leucopenia (leucocyte count lower or equal to 4x10^9/L) -elevated transaminases (upper	Unclear/Not reported Unclear/Not reported	This was a suspected case plus one of the following s: 1) detection or viral genome, or 2) positive CCHF IgM test This was a suspected case plus one of the following s: 1) detection or viral genome, or 2) positive CCHF IgM test	Low risk of bias Humans-Prevalend		CCHFV suspected cases Positive among CCHFV suspected cases		Indirect ELISA Real Time RT-PCR	IgM IgM, Viral RNA	Recent infection Serum Image: Current infection Serum Current infection Serum
Gonzalez, 1989CroGonzalez, 1989Cro	oss sectional Prol oss sectional Nor	obabilisticSimple random samplingNobabilisticSimple random samplingNobabilisticConsecutive samplingN	MulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspectiMulticenterProspecti	tively Cameroon tively Central Africa Repu tively Chad tively Democratic Republi tively Equatorial Guinea tively Gabon tively Mauritania	Lower-middle income blic Low-income economie Low-income economie ic of the Congo Low-income economie Upper-middle-income Upper-middle-income Lower-middle income	economies Central Africa Jan/1 S Central Africa Jan/1	/1985-Juun/1987 /1985-Juun/1987 /1985-Juun/1987 /1985-Juun/1987 /1985-Juun/1987 /1985-Juun/1987 /1988-Dec/1988	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una Unclear/Not reported Una	clear/Not reported Unclear/Not repor clear/Not reported Rural	ed Community-based N ed Community-based N ed Community-based N ed Community-based N ed Community-based N ed Community-based N Hospital-based H	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Hostipal	Not applicable (if not in the hospital)Not applicable (if not in the hospital)Hospitalized	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicableNot applicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableUnclear/Not reported	than or equal 2 times normal) Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Low risk of bias Humans-Prevalence Low risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence	e	Apparently healthy individualsApparently healthy individualsCCHFV positive case contact		Indirect immunofluorescence assay Indirect ELISA	Antibodies Antibodies Antibodies Antibodies Antibodies Antibodies IgG	Past infectionSerumPast infectionSerumPast infectionSerumPast infectionSerumPast infectionSerumPast infectionSerumPast infectionSerumPast infectionSerumPast infectionSerumPast infectionSerum

Gonzalez, 1990 Gonzalez, 1990 Gonzalez, 1990 Gozdas, 2014 Gozdas, 2014	Cross sectional Cross sectional Cross sectional Cohort (Baseline data)	Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin	ag Multicenter ag Multicenter ag Multicenter ag Monocenter	Prospectively Prospectively	Mauritania Mauritania Mauritania Turkey Turkey	Lower-middle income economies West Africa Lower-middle income economies West Africa Lower-middle income economies West Africa Upper-middle-income economies Western As Upper-middle-income economies Western As Upper-middle-income economies Western As Western As Western As Western As Western As	ca Jun/1988-Dec/1988 ca Jun/1988-Dec/1988 ca Jun/1988-Dec/1988 Asia Jun/2011-Sept/2011	Unclear/Not reported Unclear/Not reported Unclear/Not reported 44.1 44.1	Unclear/Not reported Unclear/Not reported Unclear/Not reported Adults: 19+ years Adults: 19+ years	Unclear/Not reported Rural Unclear/Not reported Rural 56.6 Urban	Hospital-based Community-based Community-based Community-based	Hostipal Not applicable (if not in the hospital)	Hospitalized Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Not applicable Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Not applicable Unclear/Not reported Unclear/Not reported	Unclear/Not reported Not applicable Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reportedUnclear/Not reportedUnclear/Not reportedPatients whose serum sampleswere positive for CCHFV RNA byreverse transcriptase apply me easechain reaction and/or CCHFV-specific immunoglobulin M (IgM)by ensyme-linked immuno-sorbentassay (ELISA) in blood weredefined as confirmed CCHFVcases.Patients whose serum sampleswere positive for CCHFV RNA byreverse transcriptase apply me ease	Moderate risk of bias Humans-Prevale Moderate risk of bias Other animals Moderate risk of bias Other animals Jow risk of bias Humans-Prevale Low risk of bias Humans-Prevale	nce Artiodactyla Artiodactyla nce Ince Ince Ince Ince Ince Ince Ince I	CCHFV positive case contact Sheep CCHFV positive case contact CCHFV positive case contact		Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA	IgM IgG IgM IgG	Recent infection Serum Past infection Serum Recent infection Serum Past infection Serum Recent infection Serum Recent infection Serum Recent infection Serum Recent infection Serum
																						chain reaction and/or CCHFV- specific immunoglobulin M (IgM) by ensyme-linked immuno-sorbent assay (ELISA) in blood were defined as confirmed CCHFV cases.							
Gozdas, 2019 Gozdas, 2019 Gozek, 2013 Gozek, 2013 Grech-Angelini, 2019	Cross sectional Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive samplin Non probabilistic Capture	ag Monocenter ag Monocenter ag Monocenter ag Monocenter Multicenter	Retrospectively Retrospectively Prospectively Prospectively Prospectively	Turkey Turkey Turkey Turkey France	Upper-middle-income economies Western As Upper-middle-income economies Western As Upper-middle-income economies Western As Upper-middle-income economies Western As High-income economies Western As	Asia 2014-2017 Asia 2014-2017 Asia 2002 ; 2012 Asia 2002 ; 2012 Europe May/2014-May/2015	53.11 53.11 31 31 Unclear/Not reported	Unclear/Not reported Unclear/Not reported Adults: 19+ years Adults: 19+ years Unclear/Not reported	Unclear/Not reported Urban Unclear/Not reported Urban 45.30 Urban 45.30 Urban Unclear/Not reported Urban Unclear/Not reported Urban/rural	Hospital-based Hospital-based Hospital-based Community-based	Secondary hospital Secondary hospital Tertiary hospital Tertiary hospital Not applicable (if not in the hospital)	Ambulatory Ambulatory Ambulatory Ambulatory Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Ticks were identified based on their morphology using appropriate keys and descriptions (Estrada-Peña 2004; Pérez-Eid, 2007). For some ticks species, never reported in Corsica or impossible to distinguish morphologically, molecular identification was carried out for a few specimens by sequencing the mitaghandrial applicable on 1 (attachments)	Not applicable Not applicable Not applicable Not applicable Yes a, n i	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Low risk of biasHumans-PrevaleLow risk of biasHumans-PrevaleModerate risk of biasHumans-PrevaleModerate risk of biasHumans-PrevaleModerate risk of biasIndividual tick	nce Ince Ince Ince Ince Ince Ince Ince I	Mixed human categories CCHFV suspected cases Healtcare workers Healtcare workers Mixed tick species	Patient with any illness, CCHFV suspected cases	Classical RT-PCR Indirect ELISA Indirect ELISA Indirect ELISA Real Time RT-PCR	Viral RNA IgM IgG Viral RNA	Current infectionSerumRecent infectionSerumPast infectionSerumCurrent infectionTicks
Greiner, 2016	Cross sectional	Probabilistic Simple random samp	oling Multicenter	Prospectively	Georgia	Upper-middle-income economies Western As	Asia Oct/2014	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	c oxidase subunit 1) and ITS2 (inter transcribed spacer 2) for Hy. scupense and 16S ribosomal RNA g for Rh. sanguineus s.l. and Ha. sulcata. Not applicable	rnal genes Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Aoderate risk of bias Humans-Prevale	nce	Apparently healthy individuals		Indirect ELISA	IgG	Past infection Serum
Greiner, 2016 Guilherme, 1996 Gul, 2015 Gunes, 2009 Gunes, 2009 Gunes, 2011	Cross sectional Cross sectional Cross sectional Cross sectional Cross sectional Cross sectional	ProbabilisticSimple random sampNon probabilisticConsecutive samplinNon probabilisticConsecutive samplinProbabilisticSimple random sampProbabilisticSimple random sampProbabilisticCapture	bling Multicenter ag Monocenter ag Monocenter bling Multicenter bling Multicenter Multicenter Multicenter	Prospectively Prospectively Prospectively Prospectively Prospectively Prospectively	Georgia Central Africa Republic Turkey Turkey Turkey Turkey Turkey	Upper-middle-income economies Western As Low-income economies Central Afr Upper-middle-income economies Western As Upper-middle-income economies Western As	AsiaOct/2014fricaJul/1992-Mar/1994AsiaUnclear/Not reportedAsiaJun/2006; Sep/2006AsiaJun/2006; Sep/2006AsiaJun/2007-Jul/2007	Unclear/Not reported Unclear/Not reported 37.7 41.5 41.5 Unclear/Not reported	Unclear/Not reported Unclear/Not reported All ages All ages All ages Unclear/Not reported	Unclear/Not reportedRuralUnclear/Not reportedUnclear/Not re64.5Urban50.1Urban50.1UrbanUnclear/Not reportedUnclear/Not re	Community-based reported Community-based Hospital-based Community-based Community-based reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Not applicable Adult ticks were examined under th	Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable About 0.1mL was taken	Not applicableNot applicableNot applicableNot applicableNot applicableSpecies, source of capture,	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable , 2-10	Not applicable Not applicable Unclear/Not reported Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Unclear/Not reported Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Unclear/Not reported Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasHumans-PrevaleModerate risk of biasOther animalsModerate risk of biasHumans-CFRModerate risk of biasHumans-PrevaleModerate risk of biasHumans-PrevaleModerate risk of biasHumans-PrevaleModerate risk of biasHumans-Prevale	nce Artiodactyla	Apparently healthy individuals Cattle Positive among CCHFV suspected cases Apparently healthy individuals High risk individuals Dermacentor marginatus		Indirect ELISA Indirect ELISA Indirect ELISA, Real Time RT-PCR Indirect ELISA Indirect ELISA Direct ELISA	IgM IgG IgM, Viral RNA IgG IgG Viral antigen	Recent infectionSerumPast infectionSerumCurrent infectionSerumPast infectionSerumPast infectionSerumCurrent infectionTicks
														stereomicroscope and identified at species level using the current refere key (Estrada-Pena et al. 2004).	ence	from each stock homogenate and used in establishing test pools (2–10 ticks/pool) grouped according to place of collection, tick species, and host (actile sheep on	Engorgement, Gender												
Gunes, 2011	Cross sectional	Probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jun/2007-Jul/2007	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not re	reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Adult ticks were examined under th stereomicroscope and identified at species level using the current refere key (Estrada-Pena et al. 2004).	e No ence	and host (cattle, sheep, or human). About 0.1mL was taken from each stock homogenate and used in establishing test pools	Species, source of capture, Engorgement, Gender	, 2-10	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick	Hyalomma	Hyalomma detritum		Direct ELISA	Viral antigen	Current infection Ticks
Gunes, 2011	Cross sectional	Probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jun/2007-Jul/2007	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported	reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Adult ticks were examined under th	e No	(2–10 ticks/pool) grouped according to place of collection, tick species, and host (cattle, sheep, or human). About 0.1mL was taken	Species, source of capture,	, 2-10	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick	Hyalomma	Hyalomma sulcata		Direct ELISA	Viral antigen	Current infection Ticks
														stereomicroscope and identified at species level using the current refere key (Estrada-Pena et al. 2004).	ence	from each stock homogenate and used in establishing test pools (2–10 ticks/pool) grouped according to place of collection, tick species,	Engorgement, Gender												
Gunes, 2011	Cross sectional	Probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jun/2007-Jul/2007	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not re	reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Adult ticks were examined under th stereomicroscope and identified at species level using the current refere key (Estrada-Pena et al. 2004).	e No ence	and host (cattle, sheep, or human). About 0.1mL was taken from each stock homogenate and used in establishing test pools	Species, source of capture, Engorgement, Gender	, 2-10	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick	Rhipicephalus	Rhipicephalus sanguineus		Direct ELISA	Viral antigen	Current infection Ticks
Gunes, 2011	Cross sectional	Probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jun/2007-Jul/2007	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported	reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Adult ticks were examined under th	e No	(2–10 ticks/pool) grouped according to place of collection, tick species, and host (cattle, sheep, or human). About 0.1mL was taken	Species, source of capture,	, 2-10	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick	Rhipicephalus	Rhipicephalus turanicus		Direct ELISA	Viral antigen	Current infection Ticks
														stereomicroscope and identified at species level using the current refere key (Estrada-Pena et al. 2004).	ence	from each stock homogenate and used in establishing test pools (2–10 ticks/pool) grouped according to place of collection, tick species,	Engorgement, Gender												
Gunes, 2011	Cross sectional	Probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jun/2007-Jul/2007	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not re	reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Adult ticks were examined under th stereomicroscope and identified at species level using the current refere key (Estrada-Pena et al. 2004).	e No ence	and host (cattle, sheep, or human). About 0.1mL was taken from each stock homogenate and used in establishing test pools	Species, source of capture, Engorgement, Gender	, 2-10	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Tick pools		Positive tick pool species	Boophylus annulatus, Hyalomma excavatum, Hyalomma marginatum, Hyalomma parva, Rhipicephalus bursa	Direct ELISA	Viral antigen	Current infection Ticks
Hasan, 2014	Cross sectional	Non probabilistic Consecutive samplin	ng Monocenter	Prospectively	Pakistan	Lower-middle income economies Southern A	Asia 2007–2013	34	Unclear/Not reported	Unclear/Not reported Unclear/Not reported	reported Hospital-based	University Hospital	Unclear/Not reported	Not applicable	Not applicable	(2–10 ticks/pool) grouped according to place of collection, tick species, and host (cattle, sheep, or human). Not applicable	Not applicable	Not applicable	Whole-blood samples were	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Low risk of bias Humans-Prevale	nce	CCHFV suspected cases		Classical RT-PCR, Real Time RT-PCR	Viral RNA	Current infection Serum
Hassanein, 1997	Cross sectional	Probabilistic Simple random samp	oling Multicenter	Prospectively	Saudi Arabia	High-income economies Western As	Asia 1994-1996	Unclear/Not reported	Adults: 19+ years	100 Unclear/Not r	reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	collected from patients with hemorrhagic manifestations (current or subsided) and a clinical disease course consistent with CCHF. Not applicable	Not applicable	Not applicable	Unclear/Not reported	Low risk of bias Humans-Prevale	nce	High risk individuals		Reverse passive hemagglutination inhibition assay (RPHI)	Antibodies	Past infection Serum
Hassanein, 1997 Hassanein, 1997 Hassanein, 1997 Hassanein, 1997 Hassanein, 2000	Cross sectional Cross sectional Cross sectional Cross sectional Cross sectional	Probabilistic Simple random samp	bling Multicenter bling Multicenter bling Multicenter bling Multicenter Multicenter	Prospectively Prospectively Prospectively Prospectively Prospectively	Saudi Arabia Saudi Arabia Saudi Arabia Saudi Arabia Saudi Arabia	High-income economies Western As	Asia 1994-1996 Asia 1994-1996	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reportedUnclear/Not reUnclear/Not reportedUnclear/Not reUnclear/Not reportedUnclear/Not reUnclear/Not reportedUnclear/Not reUnclear/Not reportedUnclear/Not reUnclear/Not reportedUnclear/Not re	reported Community-based reported Community-based reported Community-based reported Community-based Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Not applicable Not applicable Unclear/ Not reported	Not applicable Not applicable Not applicable The collected adult ticks were pooled alive in	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsModerate risk of biasTick pools	Artiodactyla Artiodactyla Artiodactyla Artiodactyla Artiodactyla	Camel Cattle Goat Sheep Positive tick pool species	Hyalomma species, Boophilus species, Rhipicephalus species, Amblyomma species	Reverse passive hemagglutination inhibition assay (RPHI) Reverse passive hemagglutination inhibition assay (RPHI) Reverse passive hemagglutination inhibition assay (RPHI) Reverse passive hemagglutination inhibition assay (RPHI) Culture	Antibodies Antibodies Antibodies Antibodies Live virus	Past infection Serum Past infection Serum Past infection Serum Past infection Serum Current infection Ticks
Hassaniazad, 2016	Cross sectional	Non probabilistic Consecutive samplin	ng Multicenter	Prospectively	Iran	Upper-middle-income economies Southern A	Asia 2009-2012	37.7	Unclear/Not reported	52.3 Urban/rural	Hospital-based	Unclear/Not reported	Ambulatory	Not applicable	Not applicable	cement layer and a piece of wet filter paper at the bottom. Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	assession of the level of IgM and IgG antibodies against CCHF	Low risk of bias Humans-Prevale	nce	Healtcare workers		Indirect ELISA	IgM and IgG	Past infection Serum
Hatami, 2019 Hatami, 2019 Hatipoglu, 2010	Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin	ng Monocenter ng Monocenter ng Monocenter	Prospectively Prospectively Prospectively Prospectively	Afghanistan Afghanistan Turkey	Low-income economies Southern A Low-income economies Southern A Upper-middle-income economies Western As	Asia Mar/2017-Jan/2018 Asia Mar/2017-Jan/2018 Asia 2005-208 Asia 2005-208	35 35 48.4 48.4	All ages All ages Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban Unclear/Not reported Urban 39.8 Rural	Hospital-based Hospital-based Hospital-based	Tertiary hospital Tertiary hospital Tertiary hospital Tertiary hospital Tertiary hospital	Hospitalized Hospitalized Hospitalized	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevale Moderate risk of bias Humans-Prevale Moderate risk of bias Humans-Prevale	nce nce	Mixed human categories Mixed human categories CCHFV suspected cases	Patient with hemorrhagic fever; Patient with illnesses other than fever diseases Patient with hemorrhagic fever; Patient with illnesses other than fever diseases	Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgM IgM	Past infection Serum Recent infection Serum Recent infection Serum
Hatipoglu, 2010 Hatipoglu, 2010 Head, 2020	Cross sectional Cross sectional Cross sectional	Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin Probabilistic Stratified sampling	ng Monocenter ng Monocenter Multicenter	Prospectively Prospectively Prospectively	Turkey Turkey Kazakhstan	Upper-middle-income economies Western As Upper-middle-income economies Western As Upper-middle-income economies Central Asi	Asia 2005-208 Asia 2005-208 sia 2017	48.4 48.4 46	Unclear/Not reported Unclear/Not reported Adults: 19+ years	39.8 Rural 39.8 Rural 54 Rural	Hospital-based Hospital-based Community-based	Tertiary hospital Tertiary hospital Not applicable (if not in the hospital)	Hospitalized Hospitalized Not applicable (if not in the hospital)	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported Detection of the presence of IgM, by using VectoCrimean-CCHF- IgM Kits (Vector- Best, https://vector-best.ru) and for	Moderate risk of bias Humans-Prevale Moderate risk of bias Humans-CFR Low risk of bias Humans-Prevale		Positive among CCHFV suspected cases High risk individuals		Real Time RT-PCR, Indirect ELISA Indirect ELISA	IgG	Current infection Serum Current infection Serum Past infection Serum
Head, 2020	Cross sectional	Probabilistic Stratified sampling	Multicenter	Prospectively	Kazakhstan	Upper-middle-income economies Central Asi	sia 2017	46	Adults: 19+ years	54 Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	indicated by IgG, by using VectoCrimean-CHF-IgG Kits (Vector-Best) Detection of the presence of IgM, by using VectoCrimean-CCHF- IgM Kits (Vector, Page	Low risk of bias Humans-Prevale	nce	High risk individuals		Indirect ELISA	IgM	Recent infection Serum
Hakimoglu 2012	Cross sectional	Non probabilistic Capture	Multicenter	Prospectively	Turkov	Unner middle income economies - Western As	Acia Apr/2009 Jul/2010	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Pural	Community based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Species and subspecies identification	vn No	Then, the ticks were	Species Gender	2.25	Not applicable	Not applicable	Not applicable	https://vector-best.ru) and for evidence of past CCHF exposure, indicated by IgG, by using VectoCrimean-CHF-IgG Kits (Vector-Best)	Adarata risk of bigs Tick pools		Positive tick pool species	Phinicenhalus hursa. Hyalomma marginatum marginatum	Paul Time PT DCP	Viral DNA	Current infection Ticks
Hekimoglu, 2012	Cross sectional	Non probabilistic Capture	Multicenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Apr/2009-Jul/2010	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Species and subspecies identification were performed according to the external morphological features as described previously in various keys a Leica Zoom 2000 stereomicroscop (Leica Microsystems, Heerbrugg,	s via pe	Then, the ticks were sorted in small tubes according to the species, subspecies and sexuality, pooled into groups of 2–25 individuals and	Species, Gender	2-25	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Aoderate risk of bias Tick pools		Positive tick pool species	Rhipicephalus bursa, Hyalomma marginatum marginatum, Haemaphysalis parva	Real Time RT-PCR	Viral RNA	Current infection Ticks
Hekimoğlu, 2014 Holakouie, 2004	Cross sectional Cross sectional	Non probabilistic Consecutive sampling Probabilistic Cluster sampling Probabilistic Cluster sampling	ng Monocenter Multicenter Multicenter	Retrospectively Prospectively	Turkey Iran	Upper-middle-income economies Western As Upper-middle-income economies Southern A Upper-middle-income economies Southern A	Asia 2013 Asia Apr/2003-Jul/2003 Asia Apr/2003 Jul/2003	54 Unclear/Not reported	Adults: 19+ years Unclear/Not reported	47.4 Urban/rural 43.5 Urban 43.5 Urban	Hospital-based Community-based	Secondary hospital Not applicable (if not in the hospital)	Hospitalized Not applicable (if not in the hospital)	Not applicable	Not applicable Not applicable	further testing. Not applicable Not applicable	Not applicable	Not applicable Not applicable	Unclear/Not reported Not applicable	Unclear/Not reported Not applicable	Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevale		Mixed human categories Apparently healthy individuals Apparently healthy individuals	CCHFV suspected cases; Patient with hemorrhagic symptoms	Real Time RT-PCR Indirect ELISA	Viral RNA IgG	Current infection Serum Past infection Serum
Horton, 2014 Horton, 2014	Cross sectional Cross sectional Cross sectional	Probabilistic Cluster sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling	ng Monocenter	Prospectively Prospectively Prospectively	Egypt Egypt	Lower-middle-income economies Southern A Lower-middle income economies Northern A Lower-middle income economies Northern A	AsiaApr/2003-Jul/2003Africa2009Africa2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban Unclear/Not reported Urban	Community-based Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	detection of IgG antibodies against CCHFV was performed using ELISA detection of IgG antibodies against CCHFV was performed using	Adderate risk of bias Humans-Prevale Moderate risk of bias Other animals	Artiodactyla Artiodactyla	Buffalo Camel		Indirect ELISA	IgG IgG	Recent infection Serum Past infection Serum Past infection Serum
Horton, 2014 Horton, 2014	Cross sectional Cross sectional	Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin	ng Monocenter	Prospectively Prospectively	Egypt Egypt	Lower-middle income economies Northern A Lower-middle income economies Northern A	Africa 2009 Africa 2009	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban Unclear/Not reported Urban	Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	ELISA detection of IgG antibodies against CCHFV was performed using ELISA detection of IgG antibodies against CCHFV was performed using	Moderate risk of biasOther animalsModerate risk of biasOther animals	Artiodactyla Artiodactyla	Cattle		Indirect ELISA Indirect ELISA	IgG IgG	Past infection Serum Past infection Serum
Horton, 2016 Horton, 2016 Horton, 2016	Cross sectional Cross sectional Cross sectional	Non probabilistic Capture Non probabilistic Capture Non probabilistic Capture	Multicenter Multicenter Multicenter	Prospectively Prospectively Prospectively	Djibouti Djibouti Djibouti	Lower-middle income economies Eastern Afr Lower-middle income economies Eastern Afr Lower-middle income economies Eastern Afr	frica sep/2010-Feb/2011 frica sep/2010-Feb/2011 frica sep/2010-Feb/2011	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban/rural Unclear/Not reported Urban/rural Unclear/Not reported Urban/rural	Community-based Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	taxonomic identification taxonomic identification taxonomic identification	No No No	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	ELISA Detection of RNA-CCHFV by RT- PCR Detection of RNA-CCHFV by RT- PCR Detection of RNA-CCHFV by RT-	Moderate risk of biasIndividual tickModerate risk of biasIndividual tickModerate risk of biasIndividual tick	Amblyomma Amblyomma Amblyomma Amblyomma	Amblyomma cohaerens Amblyomma lepidum Ambylomma variegatum		Classical RT-PCR Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA Viral RNA	Current infection Ticks Current infection Ticks Current infection Ticks
Horton, 2016 Horton, 2016 Horton, 2016	Cross sectional Cross sectional Cross sectional	Non probabilistic Capture Non probabilistic Capture Non probabilistic Capture Non probabilistic Capture	Multicenter Multicenter Multicenter	Prospectively Prospectively Prospectively	Djibouti Djibouti Djibouti	Lower-middle income economies Eastern Afr Lower-middle income economies Eastern Afr Lower-middle income economies Eastern Afr	frica sep/2010-Feb/2011 frica sep/2010-Feb/2011 frica sep/2010-Feb/2011	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban/rural Unclear/Not reported Urban/rural Unclear/Not reported Urban/rural	Community-based Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	taxonomic identification taxonomic identification taxonomic identification	No No No	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	PCR Detection of RNA-CCHFV by RT- PCR Detection of RNA-CCHFV by RT- PCR Detection of RNA-CCHFV by RT-	Moderate risk of bias Individual tick Moderate risk of bias Individual tick Moderate risk of bias Individual tick	Dermacentor Hyalomma Hyalomma	Dermacentor species Hyalomma dromedarii Hyalomma excavatum		Classical RT-PCR Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA Viral RNA	Current infection Ticks Current infection Ticks Current infection Ticks
Horton, 2016 Horton, 2016 Horváth, 1976	Cross sectional Cross sectional Cross sectional	Non probabilistic Capture Non probabilistic Capture Non probabilistic Capture Non probabilistic Consecutive samplin	Multicenter Multicenter g Multicenter	Prospectively Prospectively Unclear/ Not reported	Djibouti Djibouti Hungary	Lower-middle income economies Eastern Afr Lower-middle income economies Eastern Afr High-income economies Eastern Eur	frica sep/2010-Feb/2011 frica sep/2010-Feb/2011 urope Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban/rural Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported	Community-based Community-based reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	taxonomic identification taxonomic identification Not applicable	No No Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	PCR Detection of RNA-CCHFV by RT- PCR Detection of RNA-CCHFV by RT- PCR Detection of antibodies against	Moderate risk of biasIndividual tickModerate risk of biasIndividual tickModerate risk of biasHumans-Prevale	Hyalomma Rhipicephalus nce	Hyalomma marginatum Rhipicephalus species High risk individuals		Classical RT-PCR Classical RT-PCR Agar gel diffusion precipitation test	Viral RNA Viral RNA Antibodies	Current infection Ticks Current infection Ticks Past infection Serum
Horváth, 1976 Hosseini-Vasoukolaei, 2	Cross sectional	Non probabilistic Consecutive samplin Non probabilistic Convenience samplin	ng Multicenter	Unclear/ Not reported Prospectively	Hungary Iran	High-income economies Eastern Eur Upper-middle-income economies Southern A	urope Unclear/Not reported Asia 2008-2009	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported 36.2 Rural	reported Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	CHF by Agar-gel diffusion precipitation test Detection of antibodies against CHF by Agar-gel diffusion precipitation test Detection of RNA-CCHFV by RT-	Moderate risk of bias Other animals	Animal unspecified	Animal unspecified High risk individuals		Agar gel diffusion precipitation test Indirect ELISA	Antibodies	Past infection Serum Past infection Serum
Hosseini-Vasoukolaei, 2 Hosseini-Vasoukolaei, 2	2016 Cross sectional 2016 Cross sectional	Non probabilistic Capture Non probabilistic Convenience sampling	Multicenter ng Multicenter	Prospectively Prospectively	Iran	Upper-middle-income economies Southern A Upper-middle-income economies Southern A	Asia 2008-2009 Asia 2008-2009	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Rural Unclear/Not reported Rural	Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	The collected ticks were identified u taxonomical key (Walker et al., 200 Not applicable	using No (3). Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	PCR and detection of IgG antibodies by ELISA Detection of RNA-CCHFV by RT- PCR and detection of IgG antibodies by ELISA Detection of RNA-CCHFV by RT-	Moderate risk of bias Individual tick Moderate risk of bias Other animals	Rhipicephalus Artiodactyla	Rhipicephalus sanguineus Sheep		Classical RT-PCR Indirect ELISA	Viral RNA IgG	Current infection Ticks Past infection Serum
Ibrahim, 2015 Izadi, 2006	Cross sectional Cross sectional	Probabilistic Simple random samp Probabilistic Cluster sampling	pling Multicenter Multicenter	Unclear/ Not reported Prospectively	Sudan Iran	Low-income economies Northern A Upper-middle-income economies Southern A	Africa Unclear/Not reported Asia Jan/2002-Mar/2002	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban/rural 47.81 Urban	Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	PCR and detection of IgG antibodies by ELISA Detection of IgG antibodies by ELISA Detection of IgG antibodies by indirect ELISA	Moderate risk of bias Other animals Low risk of bias Humans-Prevale	Artiodactyla	Cattle Apparently healthy individuals		Indirect ELISA Indirect ELISA	IgG IgG	Past infection Serum Past infection Serum
Izadi, 2008 Izadi, 2008 Izadi, 2009	Cross sectional Cross sectional Case control	Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin Non probabilistic Consecutive samplin	ng Multicenter ng Multicenter ng Monocenter	Prospectively Prospectively Retrospectively	Iran Iran Iran	Upper-middle-income economies Southern A Upper-middle-income economies Southern A Upper-middle-income economies Southern A	Asia May/2005-Mar/2006 Asia May/2005-Mar/2006 Asia 2000-2006	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported All ages	40Urban/rural40Urban/rural79.4Urban/rural	Community-based Community-based Hospital-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Hospitalized	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported We considered a typical confirmed case as a case with febrile illness, a platelet count of less than 50,000/µl, and any of the	Moderate risk of bias Humans-Prevale Moderate risk of bias Humans-Prevale Low risk of bias Humans-CFR	nce	Apparently healthy individuals Apparently healthy individuals Positive among CCHFV suspected cases		Indirect ELISA Indirect ELISA Indirect ELISA, Real Time RT-PCR	IgG IgM IgG, IgM, Viral RNA	Past infection Serum Recent infection Serum Current infection Serum
																						following: petechial or purpuric rash, epistaxis, hematemesis, hemoptysis, blood in the stool, ecchymosis, gum bleeding, and no known predisposing host factors for hemorrhage, and a compatible epidemiologic history (history of tick bite, contact with fresh blood or the bodily fluid of recently slaughtered livestock, or the blood or bodily fluid of a confirmed CCHF case, and/or travel to or residence in a rural environment with the probability of tick contact or tick bite), and the confirmation of the presence of anti-CCHFV IgG or IgM in the serum as determined by enzyme-linked immunosorbent assay (ELISA) or by viral nucleic acid detection by polymerase chain reaction (PCR) (14-16). In milder cases not presenting with bleeding, a positive report of anti- CCHFV IgM was obligatory for inclusion in the study, whereas for tupical cases with bleeding. a							
Johnson, 1983 Johnson, 1983 Johnson, 1993 Kadanali, 2012	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplinNon probabilisticConsecutive samplinNon probabilisticConsecutive samplinNon probabilisticConsecutive samplinNon probabilisticConsecutive samplin	ng Multicenter ng Multicenter ng Multicenter ng Monocenter	Prospectively Prospectively Prospectively Prospectively	Kenya Kenya Central Africa Republic Turkey	Lower-middle income economiesEastern AfrLower-middle income economiesEastern AfrLow-income economiesCentral AfrUpper-middle-income economiesWestern Asr	fricaUnclear/Not reportedfrica1980-1981fricaUnclear/Not reportedAsiaJan/2005-Dec/2006	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	All ages Unclear/Not reported All ages Unclear/Not reported	Unclear/Not reportedRuralUnclear/Not reportedUnclear/Not reUnclear/Not reportedRural49.2Unclear/Not re	Community-basedreportedCommunity-basedCommunity-basedreportedHospital-based	Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)University Research Hospital	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Hospitalized	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicableNot applicableNot applicableBetween January 2005 andDecember 2006, we carried out aprospective study on patients with	Not applicable Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Not applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasHumans-PrevaleModerate risk of biasHumans-PrevaleModerate risk of biasHumans-PrevaleLow risk of biasHumans-Prevale	nce	Apparently healthy individuals Apparently healthy individuals Apparently healthy individuals Febrile patients		Indirect immunofluorescence assay Indirect immunofluorescence assay Indirect immunofluorescence assay Classical RT-PCR	Antibodies Antibodies Antibodies Viral RNA	Past infectionSerumPast infectionSerumPast infectionSerumCurrent infectionSerum, Organ tissue
Kadanali, 2012	Cross sectional	Non probabilistic Consecutive samplin	ig Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jan/2005-Dec/2006	Unclear/Not reported	Unclear/Not reported	49.2 Unclear/Not r	reported Hospital-based	University Research Hospital	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Between January 2005 and December 2006, we carried out a prospective study on patients with acute febrile syndrome characterized by malaise, bleeding leukopenia and thrombocytopenia.	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Low risk of bias Humans-Prevale	nce	Febrile patients		Indirect ELISA	IgM	Recent infection Serum, Organ tissue
Kadanali, 2012	Cross sectional	Non probabilistic Consecutive samplin	ng Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jan/2005-Dec/2006	Unclear/Not reported	Unclear/Not reported	49.2 Unclear/Not r	reported Hospital-based	University Research Hospital	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Between January 2005 and December 2006, we carried out a prospective study on patients with acute febrile syndrome characterized by malaise, bleeding leukopenia and thrombocytopenia	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Low risk of bias Humans-CFR		Positive among febrile patients		Classical RT-PCR	Viral RNA	Current infection Serum, Organ tissue
Kadanali, 2012	Cross sectional	Non probabilistic Consecutive samplin	ng Monocenter	Prospectively	Turkey	Upper-middle-income economies Western As	Asia Jan/2005-Dec/2006	Unclear/Not reported	Unclear/Not reported	49.2 Unclear/Not r	reported Hospital-based	University Research Hospital	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Between January 2005 and December 2006, we carried out a prospective study on patients with acute febrile syndrome characterized by malaise, bleeding	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Low risk of bias Humans-CFR		Positive among febrile patients		Indirect ELISA	IgM	Recent infection Serum, Organ tissue
Kalvatchev, 2010 Kalvatchev, 2010 Kara, 2016	Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplinNon probabilisticConsecutive samplinNon probabilisticConsecutive samplin	ng Multicenter ng Multicenter ng Monocenter	Prospectively Prospectively Retrospectively	Bulgaria Bulgaria Turkey	Upper-middle-income economies Eastern Eur Upper-middle-income economies Eastern Eur Upper-middle-income economies Western As	urope Unclear/Not reported urope Unclear/Not reported Asia Apr/2015-Sep/2015	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Child: Birth-18 years	Unclear/Not reportedUnclear/Not reUnclear/Not reportedUnclear/Not re85.71Urban	reported Unclear/Not reported reported Unclear/Not reported Hospital-based	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Hospitalized	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Ieukopenia and thrombocytopenia. Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Detection of RNA-CCHFV by RT- PCR or antibodies by IFA	Moderate risk of bias Humans-Prevale Moderate risk of bias Humans-Prevale Moderate risk of bias Humans-Prevale	nce	Mixed human categories Mixed human categories CCHFV suspected cases	CCHFV suspected cases; Apparently healthy individuals CCHFV suspected cases; Apparently healthy individuals	Indirect ELISA, Complement fixation test Indirect ELISA, Complement fixation test Classical RT-PCR	IgM IgG Viral RNA	Recent infection Serum Past infection Serum Current infection Serum
Kara, 2016 Karakecili, 2018 Karakus, 2019	Cross sectional Cross sectional Cross sectional	Non probabilisticConsecutive samplinNon probabilisticConsecutive samplinNon probabilisticConsecutive samplin	ng Monocenter ng Monocenter ng Monocenter	Retrospectively Retrospectively Retrospectively	Turkey Turkey Turkey	Upper-middle-income economies Western As Upper-middle-income economies Western As Upper-middle-income economies Western As	Asia Apr/2015-Sep/2015 Asia 2011-2017 Asia Unclear/Not reported	Unclear/Not reported 53 49.86	Child: Birth-18 years All ages Unclear/Not reported	85.71Urban50.5Urban/rural62.1Unclear/Not rest	Hospital-based Hospital-based reported Hospital-based	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Hospitalized Hospitalized Unclear/Not reported	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reportedUnclear/Not reportedPatients who have a platelet countof $\leq 20 \times 109/L$, blood levels ofAST ≥ 900 U/L, ALT ≥ 700 U/L and	Unclear/Not reported Unclear/Not reported Unclear/Not reported d	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Detection of RNA-CCHFV by RT- PCR or antibodies by IFA Unclear/Not reported Unclear/Not reported	Moderate risk of biasHumans-PrevaleModerate risk of biasHumans-PrevaleModerate risk of biasHumans-CFR		CCHFV suspected cases CCHFV suspected cases Positive among CCHFV suspected cases		Indirect immunofluorescence assay Real Time RT-PCR Classical RT-PCR	Antibodies Viral RNA Viral RNA	Past infection Serum Current infection Serum Current infection Unclear/Not reported
Karlberg, 2015	Cross sectional	Non probabilistic Consecutive samplin	ig Monocenter	Unclear/ Not reported	Iran	Upper-middle-income economies Southern A	Asia Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban	Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	aPTT ≥60 s were accepted as severe CCHF (Ergonul et al., 2006). clinical symptoms ranging from mild to severe hemorrhagic fever	Unclear/Not reported	Unclear/Not reported	increased CCHF IgM and IgG antibody titers and/or positive detection of viral RNA by RT-PCR	Moderate risk of bias Humans-Prevale	nce	CCHFV suspected cases		Classical RT-PCR; Real Time RT-PCR	Viral RNA	Current infection Serum
Karlberg, 2015	Cross sectional	Non probabilistic Consecutive samplin	ng Monocenter	Unclear/ Not reported	Iran	Upper-middle-income economies Southern A	Asia Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban	Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	clinical symptoms ranging from mild to severe hemorrhagic fever	Unclear/Not reported	Unclear/Not reported	increased CCHF IgM and IgG antibody titers and/or positive detection of viral RNA by RT-PCR	Moderate risk of bias Humans-Prevale	nce	CCHFV suspected cases		Indirect ELISA	IgG	Past infection Serum

Karlberg, 2015 Cross sectiona	nal Non probabili	istic Consecutive sampling Monocen	nter Unclear/ Not	reported Iran	Upper-middle-income economies Southern Asia Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban	Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	clinical symptoms ranging from mild to severe hemorrhagic fev	n Unclear/Not reported er	Unclear/Not reported	increased CCHF IgM and IgG Moderate risk of bias antibody titers and/or positive detection of viral RNA by RT-PCR	Humans-Prevalence	CCHFV	suspected cases	Indirect ELISA	IgM	Recent infection Serum
Kasi, 2020 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	Pakistan	Lower-middle income economies Southern Asia Sep/2017-Nov/2017	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban/rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Ticks were identified based on their morphological features under the stereomicroscope using a multiple	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV genome by molecular methods such as RT- PCR and Sequencing	Individual tick Hyalomma	Hyalom	ma anatolicum	Classical RT-PCR	Viral RNA	Current infection Ticks
												Preston, 2005) and the re-description of tick species by Apanaskevich and Horak (2005); Apanaskevich, Filippova, and Horak (2010).	f k												
Kasi, 2020 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	Pakistan	Lower-middle income economies Southern Asia Sep/2017-Nov/2017	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban/rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Ticks were identified based on their morphological features under the stereomicroscope using a multiple electronic key (Walker, Matthews, & Preston 2005) and the re-description of	Unclear/ Not reported Not applica	ble Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV genome by molecular methods such as RT- PCR and Sequencing	Individual tick Hyalomma	Hyalom	ma dromedarii	Classical RT-PCR	Viral RNA	Current infection Ticks
Kasi, 2020 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	Pakistan	Lower-middle income economies Southern Asia Sep/2017-Nov/2017	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban/rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	tick species by Apanaskevich and Horak (2005); Apanaskevich, Filippova, and Horak (2010). Ticks were identified based on their	k Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV genome by Moderate risk of bias	Individual tick Hyalomma	Hyalom	ma excavatum	Classical RT-PCR	Viral RNA	Current infection Ticks
												morphological features under the stereomicroscope using a multiple electronic key (Walker, Matthews, & Preston, 2005) and the re-description of tick species by Apanaskevich and Horak	f						PCR and Sequencing						
Kasi, 2020 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	Pakistan	Lower-middle income economies Southern Asia Sep/2017-Nov/2017	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban/rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	(2005); Apanaskevich, Filippova, and Horak (2010). Ticks were identified based on their morphological features under the stereomicroscope using a multiple	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV genome by molecular methods such as RT- PCR and Sequencing	Individual tick Hyalomma	Hyalom	ma marginatum	Classical RT-PCR	Viral RNA	Current infection Ticks
												electronic key (Walker, Matthews, & Preston, 2005) and the re-description of tick species by Apanaskevich and Horak (2005); Apanaskevich, Filippova, and Horak (2010).	f k												
Kasi, 2020 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	Pakistan	Lower-middle income economies Southern Asia Sep/2017-Nov/2017	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban/rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Ticks were identified based on their morphological features under the stereomicroscope using a multiple electronic key (Walker, Matthews, &	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV genome by molecular methods such as RT- PCR and Sequencing	Individual tick Hyalomma	Hyalom	ma scupense	Classical RT-PCR	Viral RNA	Current infection Ticks
Kasi, 2020 Cross sectiona	nal Probabilistic	Systematic sampling Monocen	nter Prospectively	Pakistan	Lower-middle income economies Southern Asia Jul/2016-Sep/2016	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Preston, 2005) and the re-description of tick species by Apanaskevich and Horak (2005); Apanaskevich, Filippova, and Horak (2010). Not applicable	f k Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of specific IgG by Moderate risk of bias	Other animals	Artiodactyla Goat		Indirect ELISA	IgG	Past infection Serum
Kasi, 2020Cross sectionaKautman, 2016Cross sectiona	nal Probabilistic nal Non probabili	Systematic sampling Monocentistic Capture Monocenti	nter Prospectively nter Prospectively	Pakistan Algeria	Lower-middle income economies Southern Asia Jul/2016-Sep/2016 Lower-middle income economies Northern Africa 2009-2010	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban Unclear/Not reported Unclear/Not report	ed Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Unclear/ Not reported	Not applicable Not applica Unclear/ Not reported Not applica	able Not applicable able Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	ELISA Detection of specific IgG by ELISA Moderate risk of bias Detection of RNA CCHFV bt RT- Moderate risk of bias PCR PCR	Other animals Individual tick Hyalomma	Artiodactyla Sheep Hyalom	ma aegyptium	Indirect ELISA Classical RT-PCR	IgG Viral RNA	Past infection Serum Current infection Ticks
Kayedi, 2015 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	r Iran	Upper-middle-income economies Southern Asia Apr/2012-Jun/2012	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Morphological identifications and sex determination were conducted using the key of Estrada-Pena et al. 2004, using a chill table and a dissection microscope.	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV RNA by RT- Moderate risk of bias PCR	Individual tick Argas	Argas p	ersicus	Classical RT-PCR	Viral RNA	Current infection Ticks
Kayedi, 2015 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	Iran	Upper-middle-income economies Southern Asia Apr/2012-Jun/2012	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Morphological identifications and sex determination were conducted using the key of Estrada-Pena et al. 2004, using a chill table and a dissection microscope.	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV RNA by RT- PCR Moderate risk of bias	Individual tick Haemaphysalis	Haemap	physalis sulcata	Classical RT-PCR	Viral RNA	Current infection Ticks
Kayedi, 2015 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	/ Iran	Upper-middle-income economies Southern Asia Apr/2012-Jun/2012	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Morphological identifications and sex determination were conducted using the key of Estrada-Pena et al. 2004, using a chill table and a dissection microscope.	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV RNA by RT- PCR Moderate risk of bias	Individual tick Hyalomma	Hyalom	ma anatolicum	Classical RT-PCR	Viral RNA	Current infection Ticks
Kayedi, 2015 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	r Iran	Upper-middle-income economies Southern Asia Apr/2012-Jun/2012	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Morphological identifications and sex determination were conducted using the key of Estrada-Pena et al. 2004, using a chill table and a dissection microscope.	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV RNA by RT- PCR Moderate risk of bias	Individual tick Hyalomma	Hyalom	ma asiaticum	Classical RT-PCR	Viral RNA	Current infection Ticks
Kayedi, 2015 Cross sectiona	nal Probabilistic	Capture Multicent	nter Prospectively	/ Iran	Upper-middle-income economies Southern Asia Apr/2012-Jun/2012	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Rural	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Morphological identifications and sex determination were conducted using the key of Estrada-Pena et al. 2004, using a chill table and a dissection microscope.	Unclear/ Not reported Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Detection of CCHFV RNA by RT- PCR Moderate risk of bias	Individual tick Rhipicephalus	Rhipice	phalus sanguineus	Classical RT-PCR	Viral RNA	Current infection Ticks
Khan, 1997 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Community-based	Unclear/Not reported	Ambulatory	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Laboratory-confirmed cases were designated as inviduals with any acute illness who had evidence of acute (presence of LgM, antigen, or	Humans-Prevalence	Apparer	ntly healthy individuals	Indirect ELISA	IgG	Past infection Serum
Khan, 1997 Hospital outbre	break Non probabili	istic Convenience sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	All available medical charts we	ere Unclear/Not reported	Unclear/Not reported	Laboratory-confirmed cases were Moderate risk of bias	Humans-Prevalence	CCHFV	suspected cases	Indirect ELISA	Antigen	Current infection Serum
																reviewed on individuals who n this screening case definition to determine how many patients n stricter clinical case definition unexplained fever (temperature	net a of		designated as inviduals with any acute illness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHF virus infection (presence of IgG).						
																101.5°F), thrombocytopenia (platelet count 150,000/mm3), mucosal bleeding or ecchymos and lab oratory evidence of elevated transaminases (2x	es,								
Khan, 1997 Hospital outbre	break Non probabili	istic Convenience sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable Not applica	ble Not applicable	Not applicable	normal) or coagulation abnormalities. All available medical charts we reviewed on individuals who m	ere Unclear/Not reported	Unclear/Not reported	Laboratory-confirmed cases were designated as inviduals with any	Humans-Prevalence	CCHFV	suspected cases	Indirect ELISA	IgG	Past infection Serum
																this screening case definition to determine how many patients r stricter clinical case definition unexplained fever (temperature 101.5ŰF), thrombocytopenia	o net a of		acute illness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHF virus infection (presence of IgG).						
																(platelet count 150,000/mm3), mucosal bleeding or ecchymos and lab oratory evidence of elevated transaminases (2x normal) or coagulation	es,								
Khan, 1997 Hospital outbree	break Non probabili	istic Convenience sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Hospital-based	Unclear/Not reported	Hospitalized	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	abnormalities. All available medical charts we reviewed on individuals who m this screening case definition to determine how many patients r	ere Unclear/Not reported	Unclear/Not reported	Laboratory-confirmed cases were designated as inviduals with any acute illness who had evidence of acute (presence of LeM, antigen, or	Humans-Prevalence	CCHFV	suspected cases	Indirect ELISA	IgM	Recent infection Serum
																stricter clinical case definition unexplained fever (temperature 101.5°F), thrombocytopenia (platelet count 150,000/mm3),	of		virus isolation) or recent CCHF virus infection (presence of IgG).						
																mucosal bleeding or ecchymos and lab oratory evidence of elevated transaminases (2x normal) or coagulation abnormalities.	es,								
Khan, 1997 Hospital outbroom	break Non probabili	istic Convenience sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Community-based	Unclear/Not reported	Ambulatory	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Laboratory-confirmed cases were designated as inviduals with any acute illness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHE	Humans-Prevalence	Healtca	re workers	Indirect ELISA	IgG	Past infection Serum
Khan, 1997 Hospital outbre	break Non probabili	istic Convenience sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Community-based	Unclear/Not reported	Ambulatory	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Virus isolation) of recent COTH virus infection (presence of IgG). Laboratory-confirmed cases were designated as inviduals with any corta illness who had exidence of	Humans-Prevalence	High ris	k individuals	Indirect ELISA	IgG	Past infection Serum
																			acute finness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHF virus infection (presence of IgG).						
Khan, 1997 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Community-based	Unclear/Not reported	Ambulatory	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Laboratory-confirmed cases were designated as inviduals with any acute illness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHF	Humans-Prevalence	High ris	k individuals	Indirect ELISA	IgG	Past infection Serum
Khan, 1997 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	All ages	Unclear/Not reported Unclear/Not report	ed Community-based	Unclear/Not reported	Ambulatory	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	virus infection (presence of IgG). Laboratory-confirmed cases were designated as inviduals with any acute illness who had evidence of	Humans-Prevalence	High ris	k individuals	Indirect ELISA	IgG	Past infection Serum
Khan 1007 Cross sections	nal Non probabili	ictia Contura Multicont	tor Prospectively	United Arab Emirates	High income economies Western Asia Ian/1004 Apr/1005	Linchar/Not reported	Unaloar/Not reported	Unclear/Not reported Unclear/Not report	ad Community based	Not applicable (if not in the hospital)	Not applicable (if not in the bospitel)	Unclear/ Not reported	Unclear/ Not reported Not applica	bla Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	acute (presence of 1gM, antigen, or virus isolation) or recent CCHF virus infection (presence of IgG).	Individual tick Uvalomma	Hunlom	ma dromadari	Direct ELISA	Antigon	Current infection Ticks
Khan, 1997		Isue Capture Municent	Prospectively	United Arab Emirates	Western Asia Jan/1994-Api/1995	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	eu Community-based	Not applicable (if not in the nospital)	Not applicable (if not in the hospital)	Unclear/ Not reported	Not applica	not applicable	Not applicable	Not applicable			designated as inviduals with any acute illness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHF	individual lick Hyalonina	нуают		Direct ELISA	Anugen	
Khan, 1997 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not report	ed Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	virus infection (presence of IgG). Laboratory-confirmed cases were designated as inviduals with any acute illness who had evidence of	Other animals	Artiodactyla Camel		Indirect ELISA	IgG	Past infection Serum
Khan, 1997 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not report	ed Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica	ble Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	acute (presence of 1gM, antigen, or virus isolation) or recent CCHF virus infection (presence of IgG).	Other animals	Artiodactyla Cattle		Indirect ELISA	IeG	Past infection Serum
																			designated as inviduals with any acute illness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHF					-6 -	
Khan, 1997 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not report	ed Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Laboratory-confirmed cases were designated as inviduals with any acute illness who had evidence of	Other animals	Artiodactyla Goat		Indirect ELISA	IgG	Past infection Serum
Khan, 1997 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	United Arab Emirates	High-income economies Western Asia Jan/1994-Apr/1995	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not report	ed Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica	ible Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	acute (presence of 1gM, antigen, or virus isolation) or recent CCHF virus infection (presence of IgG). Laboratory-confirmed cases were Moderate risk of bias	Other animals	Artiodactyla Sheep		Indirect ELISA	IgG	Past infection Serum
																			designated as inviduals with any acute illness who had evidence of acute (presence of 1gM, antigen, or virus isolation) or recent CCHF virus infection (presence of IgG).						
Khurshid, 2015 Cross sectiona Khurshid, 2015 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	Afghanistan	Low-income economies Southern Asia Jan/2011-Dec/2011 Lower-middle income economies Southern Asia Jan/2011-Dec/2011	Unclear/Not reported	All ages	71 Urban/rural	Hospital-based	Unclear/Not reported	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica Not applicable Not applica	able Not applicable	Not applicable	fever, malaise, myalgia, bleedin from various orifices and low platelet count fever, malaise, myalgia, bleedin	ng Unclear/Not reported	Unclear/Not reported	Detection of IgM and CCHFV- RNA by ELISA and RT-PCR	Humans-Prevalence	CCHFV	suspected cases	Classical RT-PCR	Viral RNA	Current infection Serum
Khurshid, 2015 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	Afghanistan	Low-income economies Southern Asia Jan/2011-Dec/2011	Unclear/Not reported	All ages	71 Urban/rural	Hospital-based	Unclear/Not reported	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	from various orifices and low platelet count fever, malaise, myalgia, bleedin from various orifices and low	ng Unclear/Not reported	Unclear/Not reported	RNA by ELISA and RT-PCR Detection of IgM and CCHFV- RNA by ELISA and RT-PCR Moderate risk of bias	Humans-Prevalence	CCHFV	suspected cases	Indirect ELISA	IgM	Recent infection Serum
Khurshid, 2015Cross sectionaKilinc, 2016Cross sectionaKilinc, 2016Cross sectiona	nal Non probabili nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	Pakistan Pakistan Pakistan Pakistan Pakistan Pakistan	Lower-middle income economies Southern Asia Jan/2011-Dec/2011 Upper-middle-income economies Western Asia 2011-2015 Userse middle income economies Western Asia 2011-2015	Unclear/Not reported Unclear/Not reported	All ages Unclear/Not reported	71 Urban/rural Unclear/Not reported Urban/rural	Hospital-based Hospital-based	Unclear/Not reported University Training and Research Hospital University Training and Research Hospital	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable Not applicable Not applicable	Not applicable Not applica Not applicable Not applica	able Not applicable	Not applicable	fever, malaise, myalgia, bleedin from various orifices and low platelet count Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Detection of IgM and CCHFV- RNA by ELISA and RT-PCR Moderate risk of bias Unclear/Not reported Moderate risk of bias	Humans-Prevalence Humans-Prevalence	CCHFV	suspected cases suspected cases	Indirect ELISA Indirect ELISA Deal Time DT DCD	IgM IgM and IgG	Recent infection Serum Past infection Serum
Kizilgun, 2013 Cross sectiona	nal Non probabili	istic Consecutive sampling Monocen	nter Prospectively	Turkey	Upper-middle-income economies Western Asia 2011-2013 Upper-middle-income economies Western Asia Jan/2009-Nov/2012	9.78	Child: Birth-18 years	58.5 Unclear/Not reported Utbal/Ithan	ed Hospital-based	Hematology Oncology Children's Training and Research Hospital	Hospitalized	Not applicable	Not applicable Not applica	ible Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Recent or current CCHF infection was confirmed by demonstrating seroconversion, or at least a four- fold increase in antibody titer in	Humans-CFR	Positive	among CCHFV suspected cases	Classical RT-PCR, Indirect ELISA	IgM, Viral RNA	Current infection Serum
																			paired serum samples, or IgM antibodies with enzyme-linked immunosorbent assay (ELISA) in a single sample (Charrel et al. 2004).						
Koksal, 2014Case controlKuchuloria, 2014Cross sectionaKulichenko, 2016Cross sectiona	Non probabili nal Non probabili nal Non probabili	istic Consecutive sampling Multicent istic Consecutive sampling Multicent istic Capture Multicent	nter Retrospectively nter Prospectively nter Prospectively	Ply Turkey Georgia Russia	Upper-middle-income economies Western Asia 2009–2010 Upper-middle-income economies Western Asia 2008-2011 Upper-middle-income economies Eastern Europe Jul/2015	43.2 Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	41.3 Unclear/Not report Unclear/Not reported Unclear/Not report Unclear/Not reported Rural	ed Community-based ed Hospital-based Community-based	Not applicable (if not in the hospital) Unclear/Not reported Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Hospitalized Not applicable (if not in the hospital)	Not applicable Not applicable Unclear/ Not reported	Not applicable Not applica Not applicable Not applica Unclear/ Not reported The ticks w preliminaril species to w	ableNot applicableableNot applicablevereSpecies, Congely sorted by theDevelopmentalwhich theyNot applicable	Not applicable Not applicable onnement, 2-50 age, Gender	Not applicable Unclear/Not reported Not applicable	Not applicable Unclear/Not reported Not applicable	Not applicable Unclear/Not reported Not applicable	Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias	Humans-Prevalence Humans-Prevalence Tick pools	Apparen Patient Positive	http://with.hemorrhagic.symptoms tick pool species Hyalomma marginatum, Rhipicephalus bursa	Indirect ELISA Indirect ELISA Classical RT-PCR	IgG IgM Viral RNA	Past infection Serum Recent infection Serum Current infection Ticks
													belonged, g developmer grouped in combining semiconges	gender, and ntal stage and pools up to five sted imago and											
Lani, 2015 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Prospectively	y Malaysia	Upper-middle-income economies Southeastern Asia Sep/2012-Feb2013	46.5	All ages	40.6 Urban	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	up to 50 ser larvae and r Not applicable Not applica	micongested nymphs.	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported Moderate risk of bias	Humans-Prevalence	Apparen	ntly healthy individuals	Indirect ELISA	IgG	Past infection Serum
Leblebicioglu, 2014Cross sectionaLeblebicioglu, 2014Cross sectiona	nal Non probabili nal Non probabili	istic Capture Monocentistic Capture Monocentistic	nter Prospectively nter Prospectively	Turkey Turkey	Upper-middle-income economies Western Asia 2010-2012 Upper-middle-income economies Western Asia 2010-2012	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban Unclear/Not reported Urban	Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Each tick was speciated by examining morphologic characteristics under stereomicroscope (5). Each tick was speciated by examining morphologic characteristics	No Not applica No Not applica	able Not applicable able Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias	Individual tick Hyalomma Individual tick Ixodes	Hyalom Ixodes s	ma species	Real Time RT-PCR Real Time RT-PCR	Viral RNA Viral RNA	Current infection Ticks Current infection Ticks
Leblebicioglu, 2016 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Retrospective	Ply Turkey	Upper-middle-income economies Western Asia 2002-2014	Unclear/Not reported	Adults: 19+ years	Unclear/Not reported Urban	Hospital-based	Tertiary hospital	Hospitalized	under stereomicroscope (5). Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	all Low risk of bias confirmed HCW cases had positive serology (IgM or IgG seroconversion) and/or positive	Humans-Prevalence	Healtca	re workers	Classical RT-PCR, Indirect ELISA	IgG, IgM, Viral RNA	Current infection Serum
Lehlebicioglu 2016 Cross sectiona	nal Non probabili	istic Consecutive sampling Multicent	nter Retrospective	sly Turkey	Upper-middle-income economies Western Asia 2002-2014	Unclear/Not reported	Adults: 19+ years	Unclear/Not reported Urban	Hospital-based	Tertiary hospital	Hospitalized	Not applicable	Not applicable Not applica	ble Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	PCR results. Asymptomatic cases were confirmed by CCHF IgG seroconversion.	Humans-CER	Positive	among Healtcare workers	Classical RT-PCR Indirect ELISA	IgG IgM Viral RNA	Current infection Serum
Cross sectiona	ivon probabili	Multicent	Ketrospective		western Asta 2002-2014	oncreat/inot reported	r Huns. 19+ years	Urban	anospitat-vased				INot application INot applica	not applicable		onclear/not reported		rot reported	confirmed HCW cases had positive serology (IgM or IgG seroconversion) and/or positive PCR results. Asymptomatic cases		Positive			, 1911, VII AI NINA	Serum
Lepers, 1988Cross sectionaLotfollahzadeh, 2011Cross sectiona	nal Non probabili nal Probabilistic	istic Consecutive sampling Monocen Simple random sampling Multicent	nter Prospectively nter Prospectively	Mauritania Iran	Lower-middle income economies West Africa Nov/1985-Feb/1986 Upper-middle-income economies Southern Asia Jul/2006-Apr/2008	Unclear/Not reported Unclear/Not reported	Adults: 19+ years Unclear/Not reported	Unclear/Not reported Urban Unclear/Not reported Urban	Hospital-based Community-based	Unclear/Not reported Not applicable (if not in the hospital)	Ambulatory Not applicable (if not in the hospital)	Not applicable Not applicable	Not applicable Not applica Not applicable Not applica	able Not applicable able Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	were commed by CCHF IgG seroconversion. Unclear/Not reported Moderate risk of bias Unclear/Not reported Low risk of bias	Humans-Prevalence Other animals	Blood d Artiodactyla Cattle	onors	Indirect immunofluorescence assay Indirect ELISA	Antibodies IgG	Past infection Serum Past infection Serum
Lwande, 2012Cross sectionaLwande, 2012Cross sectionaMagnaval, 2011Cross sectionaMahzounieh, 2012Cross sectionaMahzounieh, 2012Cross sectiona	nal Non probabili nal Non probabili nal Non probabili nal Non probabili nal Non probabili	istic Consecutive sampling Multicent istic Consecutive sampling Multicent istic Consecutive sampling Monocen istic Consecutive sampling Monocen istic Consecutive sampling Monocen	nter Prospectively nter Prospectively nter Prospectively nter Prospectively nter Prospectively	y Kenya y Kenya y Russia y Turkey y Turkey	Lower-middle income economies Eastern Africa Oct/2010-Mar/2011 Lower-middle income economies Eastern Africa Oct/2010-Mar/2011 Upper-middle-income economies Eastern Europe 2007 Upper-middle-income economies Western Asia Unclear/Not reported Upper-middle-income economies Western Asia Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	All ages All ages Adults: 19+ years Unclear/Not reported	38 Rural 38 Rural 30 Urban Unclear/Not reported Unclear/Not report	Hospital-based Hospital-based Community-based ed Community-based ed Community-based	Health Centers Health Centers Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Ambulatory Ambulatory Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applica Not applicable Not applica	Not applicable able Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Moderate risk of bias Unclear/Not reported Moderate risk of bias	Humans-Prevalence Humans-Prevalence Humans-Prevalence Other animals Other animals	Febrile Febrile Apparen Artiodactyla Artiodactyla Sheep	patients patients ntly healthy individuals	Indirect ELISA Indirect ELISA Indirect ELISA Classical RT-PCR Classical RT-PCR	IgG IgM Antibodies Viral RNA	Past infectionSerumRecent infectionSerumPast infectionSerumCurrent infectionSerumCurrent infectionSerum
Maiga, 2017 Cross sectiona Majeed, 2012 Cross sectiona	nal Non probabili Non probabili	istic Consecutive sampling Monocent istic Consecutive sampling Nulticent	nter Retrospective Ily representative Retrospective	ely Mali Iraq	Low-income economies West Africa 2005-2014 Upper-middle-income economies Western Asia 2010	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not report Unclear/Not reported Urban/rural	ed Community-based Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable Not applicable	Not applicable Not applica Not applicable Not applica Not applicable Not applica	able Not applicable Not applicable	Not applicable Not applicable	Not applicable Unclear/Not reported	Not applicable a suspected case of CCHF is defined as acute onset of fever, hemorrhagic symptoms such as	Not applicable Unclear/Not reported	Unclear/Not reported Moderate risk of bias A Low risk of bias confirmed case is defined as a suspected case with serologic Low risk of bias	Other animals Humans-Prevalence	Artiodactyla Cattle CCHFV	suspected cases	Indirect ELISA Indirect ELISA	IgG IgM	Past infection Serum Recent infection Serum
																	petechiae, nose bleeding, gum bleeding, and a history of animal contact		confirmation using ELISA to detect IgM against CCHF virus. All blood samples from suspected cases are tested at the Central Public Health Laboratory.						
Majeed, 2012 Cross sectiona	nal Non probabili	istic Consecutive sampling Nationally	Ily representative Retrospective	Iraq	Upper-middle-income economies Western Asia 2010	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Urban/rural	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applica	Not applicable	Not applicable	Unclear/Not reported	a suspected case of CCHF is defined as acute onset of fever, hemorrhagic symptoms such as petechiae, nose bleeding, gum bleeding, and a history of animal	Unclear/Not reported	A confirmed case is defined as a suspected case with serologic confirmation using ELISA to detect IgM against CCHF virus. All blood	Humans-CFR	Positive	among CCHFV suspected cases	Indirect ELISA	IgM	Recent infection Serum
Malik, 2011 Community ou Maltezou 2009	outbreak Non probabili	istic Consecutive sampling Monocent	nter Prospectively	Pakistan	Lower-middle income economies Southern Asia Sep/2010-Nov/2010 High-income economies	Unclear/Not reported	All ages	79.55 Urban	Hospital-based	Teaching Hospital	Hospitalized	Not applicable	Not applicable Not applica	ible Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	samples from suspected cases are tested at the Central Public Health Laboratory. Unclear/Not reported Moderate risk of bias	Humans-Prevalence	Febrile	patients	Classical RT-PCR Indirect FLISA	Viral RNA JoM and JoC	Current infection Serum
Mancini, 2009Cross sectionaMancini, 2013Cross sectionaMancuso, 2019Cross sectiona	nal Non probabili Non probabili Non probabili	istic Capture Multicent	nter Prospectively nter Prospectively nter Prospectively	Italy Italy	High-income economies Southern Europe 2008 High-income economies Southern Europe Apr/2010-May/2011 High-income economies Southern Europe Mar/2017-May/2017	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Urban/rural Unclear/Not reported Urban/rural	Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Ticks were collected and identified on the base of the morphology Morphologic identification and	Not applicable Not applica Unclear/ Not reported Not applica Unclear/ Not reported Not applica	able Not applicable able Not applicable	Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	ELISA Low risk of bias ELISA Moderate risk of bias PCR Detection of RNA-CCHFV by RT- Detection of RNA CCHFV by RT- Detection of RNA CCHFV by RT-	Individual tick Hyalomma Individual tick Hyalomma	Healtca Hyalom Hyalom	ma species ma marginatum rufipes	Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA	Current infection Serum Current infection Ticks Current infection Ticks
Mardani, 2007Cross sectionaMardani, 2007Cross sectiona	nal Non probabili nal Non probabili	istic Consecutive sampling Monocentistic Consecutive sampling Monocentistic	nter Prospectively nter Prospectively	y Iran y Iran	Upper-middle-income economies Southern Asia 2003 Upper-middle-income economies Southern Asia 2003	33.35 33.35	Adults: 19+ years Adults: 19+ years	48.43 Urban 48.43 Urban	Hospital-based Hospital-based	University Hospital University Hospital	Ambulatory Ambulatory	assignment to a genus or, whenever possible, a species (7). Not applicable Not applicable	Not applicable Not applica Not applicable Not applica	able Not applicable able Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	PCK Detection of IgG and/or IgM by ELISA Detection of IgG and/or IgM by Low risk of bias	Humans-Prevalence Humans-Prevalence	Healtca	re workers re workers	Indirect ELISA Indirect ELISA	IgG IgM	Past infection Serum Recent infection Serum
Mariner, 1995 Cross sectiona	1	Simple random sampling Multicent	nter Prospectively	Niger	Low-income economies West Africa 1984, 1985, Feb/1987-Mar/1987, Jul/2 Oct/1988, Jun/1987, May/1987-Aug/1	1988- Unclear/Not reported 1987,	Unclear/Not reported	Unclear/Not reported Unclear/Not report	ed Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	ELISA Moderate risk of bias Positive sera were titrated by serial two-fold dilution beginning at 1:500 through 1:64 000; the last Moderate risk of bias	Other animals	Artiodactyla Camel		Indirect ELISA	IgG	Past infection Serum
	nal Probabilistic	~~~			Nov/1988, Jun/1987, Jun/1988														dilution that exceeded the cutoff		I				
Mariner, 1995 Cross sectiona	nal Probabilistic	Simple random sampling Multicent	nter Prospectively	, Niger	Low-income economies West Africa 1984, 1985, Feb/1987-Mar/1987, Jul/ Oct/1988, Jun/1987, May/1987-Aug/1	1988- 1987, Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not report	ed Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	Not applicable	Not applicable Not applica	able Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	dilution that exceeded the cutoff value was considered the extinction titer. Positive sera were titrated by serial two-fold dilution beginning at 1:500 through 1:64 000; the lost	Other animals	Artiodactyla Cattle		Indirect ELISA	IgG	Past infection Serum

Mariner, 1995	Cross sectional	Probabilistic	Simple random sampling	Multicenter Prospectivel	y Niger	Low-income economies	West Africa 198 Oct	984, 1985, Feb/1987-Mar/1987, Jul/1988- Det/1988, Jun/1987, May/1987-Aug/1987, Joy/1988, Jun/1987, Jun/1988	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rep	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Positive sera were titrated by serial two-fold dilution beginning at	Moderate risk of bias Other animals Artiodactyla	Goat		Indirect ELISA	IgG	Past infection Ser	erum
Mariner 1995	Cross sectional	Probabilistic	Simple random sampling	Multicenter Prospective	v Niger	Low-income economies	West Africa 198	984 1985 Feb/1987-Mar/1987 Jul/1988-	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rep	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not a	nnlicable	Not applicable Not applicable	Not applicable	Not applicable.	Not applicable	Not applicable.	Not applicable	dilution that exceeded the cutoff value was considered the extinction titer.	Moderate risk of bias Other animals Artiodactyla	Sheen		Indirect ELISA	IoC	Past infection Ser	Serum
							Oc: No	Dct/1988, Jun/1987, May/1987-Aug/1987, Nov/1988, Jun/1987, Jun/1988													two-fold dilution beginning at 1:500 through 1:64,000; the last dilution that exceeded the cutoff value was considered the							
Mariner, 1995	Cross sectional	Probabilistic	Simple random sampling	Multicenter Prospectivel	y Niger	Low-income economies	West Africa 198 Oct No	984, 1985, Feb/1987-Mar/1987, Jul/1988- Oct/1988, Jun/1987, May/1987-Aug/1987, Nov/1988, Jun/1987, Jun/1988	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rep	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	extinction titer. Positive sera were titrated by serial two-fold dilution beginning at 1:500 through 1:64,000; the last	Moderate risk of bias Other animals Artiodactyla	Small ruminants		Indirect ELISA	IgG	Past infection Ser	rum
Mathiot, 1988	Cross sectional	Non probabilistic	Capture	Monocenter Prospectivel	y Madagascar	Low-income economies	Eastern Africa 198	985	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Urban	Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Uncle	ear/ Not reported	Unclear/ Not reported Monospecific pools	s of Species, Feeding	Unclear/ Not reported	Not applicable	Not applicable	Not applicable	value was considered the extinction titer. Unclear/Not reported	Moderate risk of bias Tick pools	Positive tick pool species	Boophilus microplus	Culture	Live virus	Current infection Tic	icks
Mathiot, 1989 McCarthy, 1996	Cross sectional Cross sectional	Non probabilistic	Consecutive sampling Consecutive sampling	Multicenter Unclear/ No Multicenter Prospectivel	t reported Madagascar y Sudan	Low-income economies Low-income economies	Eastern Africa Un Northern Africa Oct	Unclear/Not reported Dct/1988-Nov/1988	Unclear/Not reported I 20 A	Unclear/Not reportedUnclear/Not reportedUrbanAll ages74Unclear/Not reported	Community-based ported Hospital-based	Not applicable (if not in the hospital) Tertiary hospital	Not applicable (if not in the hospital)Not applicableAmbulatoryNot applicable	pplicable pplicable	Not applicableNot applicableNot applicableNot applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable A case of acute fever was define as any person with a temperature	Not applicable ed Unclear/Not reported e of	Not applicable Unclear/Not reported	Detection of antibodies against CCHFV by IFA Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence	Apparently healthy individuals Mixed human categories	Apparently healthy individuals, Febrile patients	Indirect immunofluorescence assay Indirect immunofluorescence assay	Antibodies IgM and IgG	Past infection Ser Past infection Ser	rum erum
																		100" F or greater upon presentat and a history of fever of no more than 5 days duration. Patients w did not have a fever were invited	tion e ho d to									
Mehravaran, 2013 Mehravaran, 2013	Cross sectional Cross sectional	Probabilistic Probabilistic	Capture Capture	Multicenter Prospectivel Multicenter Prospectivel	y Iran y Iran	Upper-middle-income economies Upper-middle-income economies	Southern Asia Un Southern Asia Un	Jnclear/Not reported Jnclear/Not reported	Unclear/Not reported U Unclear/Not reported U	Unclear/Not reported Unclear/N	ported Community-based ported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Uncle Not applicable (if not in the hospital) Uncle	ear/ Not reported ear/ Not reported	Unclear/ Not reported Not applicable Unclear/ Not reported Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Individual tick Argas Moderate risk of bias Individual tick Haemaphysalis	Argas persicus Haemaphysalis concinna		Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA	Current infection Tic. Current infection Tic.	icks icks
Mehravaran, 2013 Mehravaran, 2013 Mehravaran, 2013 Mehravaran, 2013	Cross sectional Cross sectional Cross sectional Cross sectional	Probabilistic Probabilistic Probabilistic Probabilistic	Capture Capture Capture Capture	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y Iran y Iran y Iran y Iran	Upper-middle-income economies Upper-middle-income economies Upper-middle-income economies Upper-middle-income economies	Southern AsiaUnSouthern AsiaUnSouthern AsiaUnSouthern AsiaUn	Jnclear/Not reported Jnclear/Not reported Jnclear/Not reported Jnclear/Not reported	Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U	Unclear/Not reported Unclear/Not reported Unclear/Not reported	ported Community-based ported Community-based ported Community-based ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Uncle	ear/ Not reported ear/ Not reported ear/ Not reported ear/ Not reported	Unclear/ Not reportedNot applicableUnclear/ Not reportedNot applicableUnclear/ Not reportedNot applicableUnclear/ Not reportedNot applicableUnclear/ Not reportedNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Individual tick Haemaphysalis Moderate risk of bias Individual tick Hyalomma	Haemaphysalis inermis Hyalomma anatolicum Hyalomma dromedarii Hyalomma marginatum		Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA Viral RNA Viral RNA	Current infection Tic Current infection Tic Current infection Tic Current infection Tic Current infection Tic	ks cks icks icks
Memravaran, 2013 Mehravaran, 2013 Memish, 2011 Mertens, 2016 Mertens, 2016	Cross sectional Cross sectional Cross sectional Cross sectional	Probabilistic Probabilistic Probabilistic Probabilistic Probabilistic	Capture Capture Stratified sampling Simple random sampling Simple random sampling	Multicenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel	y Iran y Iran y Saudi Arabia y Bulgaria y Turkey	Upper-middle-income economies High-income economies Upper-middle-income economies Upper-middle-income economies	Southern Asia Un Southern Asia Un Western Asia Ma Eastern Europe 197 Western Asia 197	Jnclear/Not reported Jnclear/Not reported May/2010 974; 2011; 2014 974: 2011: 2014	Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U	Unclear/Not reported Unclear/N	ported Community-based ported Community-based ported Community-based ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Uncle Not applicable (if not in the hospital) Uncle Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	ear/ Not reported pplicable pplicable pplicable	Unclear/ Not reportedNot applicableUnclear/ Not reportedNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Individual tick Hyaoninia Moderate risk of bias Individual tick Rhipicephalus Moderate risk of bias Humans-Prevalence Artiodactyla Moderate risk of bias Other animals Artiodactyla	Apparently healthy individuals Mixed animals	Cattle, Goat, Sheep Cattle, Sheep	Classical RT-PCR Classical RT-PCR Indirect ELISA Indirect ELISA Indirect ELISA	Viral RNA Viral RNA IgG IgG	Current infection Fic Current infection Tic Past infection Ser Past infection Ser Past infection Ser	rum erum
Midilli, 2007	Cross sectional	Non probabilistic	Consecutive sampling	Multicenter Prospectivel	y Turkey	Upper-middle-income economies	Western Asia Jun	un/2006-Oct/2006	Unclear/Not reported	All ages Unclear/Not reported Urban	Hospital-based	Unclear/Not reported	Unclear/Not reported Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	The patients who had positive Ig and/or IgG and/or positive PCR results for CCHFV in blood wer included to the study.	gM The suspected cases were defined as the cases with symptoms or signs of CCHF such as fever, myalgia, malaise, and bleeding,	ed Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Humans-Prevalence	CCHFV suspected cases		Classical RT-PCR	Viral RNA	Current infection Ser	rum
Midilli, 2007	Cross sectional	Non probabilistic	Consecutive sampling	Multicenter Prospectivel	y Turkey	Upper-middle-income economies	Western Asia Jun	un/2006-Oct/2006	Unclear/Not reported	All ages Unclear/Not reported Urban	Hospital-based	Unclear/Not reported	Unclear/Not reported Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	The patients who had positive Is	and also the history of travel to the endemic region or tick bite. gM The suspected cases were defined	ed Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Humans-Prevalence	CCHFV suspected cases		Indirect ELISA	IgM	Recent infection Ser	,erum
																		and/or IgG and/or positive PCR results for CCHFV in blood wer included to the study.	as the cases with symptoms or signs of CCHF such as fever, myalgia, malaise, and bleeding, and also the history of travel to the endemic region or tick bite	the								
Midilli, 2009 Midilli, 2009 Midilli, 2009	Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic	Consecutive sampling Consecutive sampling Capture	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y Turkey y Turkey y Turkey y Turkey	Upper-middle-income economies Upper-middle-income economies Upper-middle-income economies	Western Asia Jun Western Asia Jun Western Asia Jun	un/2007 un/2007 un/2007	Unclear/Not reported I Unclear/Not reported I Unclear/Not reported I	Unclear/Not reported49.9Unclear/Not reportedUnclear/Not reported49.9Unclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reported	ported Community-based ported Community-based ported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	pplicable pplicable ear/ Not reported	Not applicableNot applicableNot applicableNot applicableUnclear/ Not reportedNot applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence Moderate risk of bias Individual tick Rhipicephalus Individual tick	Apparently healthy individuals Apparently healthy individuals Boophylus annulatus		Indirect ELISA Indirect ELISA Classical RT-PCR	IgG IgM Viral RNA	Past infection Ser Recent infection Ser Current infection Tic	erum erum
Midilli, 2009 Mofleh, 2012	Cross sectional Hospital outbreak	Non probabilistic Non probabilistic	Capture Consecutive sampling	Multicenter Prospectivel Monocenter Prospectivel	y Turkey y Afghanistan	Upper-middle-income economies Low-income economies	Western Asia Jun Southern Asia Jul	un/2007 ul/2008-Oct/2008	Unclear/Not reported U	Unclear/Not reportedUnclear/Not reportedUnclear/Not reportedAll ages57Unclear/Not reported	ported Community-based ported Hospital-based	Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Unclear Unclear/Not reported Not applicable	ear/ Not reported pplicable	Unclear/ Not reported Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable The team used the standard case definitions from World Health Organization sources [11,12].	Not applicable e Suspected case: Patient with sudden onset of illness with high-grade fever > 38.5 °C for more	Not applicable Probable case: This was defined as follows. • Suspected case with acute history of febrile illness ≤ 10	Unclear/Not reported Unclear/Not reported Unclear/N	Moderate risk of bias Individual tick Rhipicephalus Moderate risk of bias Humans-CFR Individual tick Individual tick	Riphicephalus bursa Positive among CCHFV suspected cases		Classical RT-PCR Classical RT-PCR, Culture, Indirect ELISA	Viral RNA IgG, IgM, Live virus, Viral RNA	Current infection Tic Current infection Ser	:ks :rum
																			than 72 hours and less than 10 days, especially in CCHF-endemic areas and among those in contact with sheep or other livestock	days AND • Thrombocytopenia < 50 000/mm3 with any 2 of the following: petechial or purpuric rash, epistaxis, haematemesis,	specially equipped high bio-safety laboratory, i.e. • Confirmation of the presence of IgG or IgM antibodies to the CCHF virus in							
																			(shepherds, butchers and animal handlers).	haemoptysis, blood in stools, ecchymosis, gum bleeding, other haemorrhagic symptom AND • unknown predisposing host factors for haemorrhagic manifestations.	serum by enzyme-linked immunosorbent assay (ELISA) • Detection of viral nucleic acid in specimen by polymerase chain reaction (PCR) • Isolation of the							
Mohamed, 2008 Mohamed, 2008	Cross sectional Cross sectional	Probabilistic Probabilistic	Simple random sampling Simple random sampling	Multicenter Prospectivel Multicenter Prospectivel	y Egypt y Egypt	Lower-middle income economies	Northern Africa Un Northern Africa Un	Jnclear/Not reported Jnclear/Not reported	Unclear/Not reported I Unclear/Not reported I	Unclear/Not reported Unclear/N	ported Community-based ported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	pplicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	virus. Unclear/Not reported Unclear/Not reported	Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Other animals Artiodactyla	Buffalo Cattle		Indirect ELISA Indirect ELISA	IgG IgG	Past infection Ser Past infection Ser	erum Serum
Mohamed, 2008 Mohamed, 2008 Mohammadian, 2016	Cross sectional Cross sectional Cross sectional	Probabilistic Probabilistic Probabilistic	Simple random sampling Simple random sampling Capture	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y Egypt y Egypt y Iran	Lower-middle income economies Lower-middle income economies Upper-middle-income economies	Northern AfricaUnNorthern AfricaUnSouthern Asia201	Unclear/Not reported Unclear/Not reported 2012–2013	Unclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedI	Unclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reported	ported Community-based ported Community-based ported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)The sign species	pplicable pplicable pecimens were identified to es level using the known	Not applicableNot applicableNot applicableNot applicableNoNot applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasIndividual tickHyalomma	Goat Sheep Hyalomma anatolicum		Indirect ELISA Indirect ELISA Classical RT-PCR	IgG IgG Viral RNA	Past infectionSerPast infectionSerCurrent infectionTick	rum rum icks
Mohammadian, 2016	Cross sectional	Probabilistic	Capture	Multicenter Prospectivel	y Iran	Upper-middle-income economies	Southern Asia 201	2012–2013	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rep	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) The species species are applied by the species of the sp	hologically keys (Hoogstraal 1979, er et al. 2003). pecimens were identified to es level using the known bologically keys (Hoogstraal 1070)	, No Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma asiaticum		Classical RT-PCR	Viral RNA	Current infection Tic	icks
Mohammadian, 2016	Cross sectional	Probabilistic	Capture	Multicenter Prospectivel	y Iran	Upper-middle-income economies	Southern Asia 201	2012–2013	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rep	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) The species morph	er et al. 2003). pecimens were identified to es level using the known hologically keys (Hoogstraal 1979.	No Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Individual tick Hyalomma	Hyalomma dromedarii		Classical RT-PCR	Viral RNA	Current infection Tic	.cks
Mohd Shukri, 2015 Moming, 2018	Cross sectional Cross sectional	Non probabilistic Non probabilistic	Consecutive sampling Capture	Multicenter Prospectivel Multicenter Unclear/ No	y Malaysia t reported China	Upper-middle-income economies Upper-middle-income economies	Southeastern Asia Ser Eastern Asia Ap Ap	Gep/2012-Feb/2013 Apr/2014-May/2014; Apr/2015-May/2015; Apr/2016-May/2016; Apr/2017-May/2017	Unclear/Not reported A Unclear/Not reported U	Adults: 19+ years 83.5 Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	ported Unclear/Not reported ported Community-based	Unclear/Not reported Not applicable (if not in the hospital)	Unclear/Not reported Not applicable (if not in the hospital) Unclear/Not applicable (if not in the hospital) Unclear	er et al. 2003). pplicable ear/ Not reported	Not applicable Not applicable Unclear/ Not reported Ticks were collected the artificial flag metal	Not applicable ed using Size, collection date nethod	Not applicable 50–100	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Tick pools	High risk individuals Positive tick pool species	Hyalomma asiaticum asiaticum, Dermacentor nuttalli, Hyalomma detritum	Indirect ELISA Classical RT-PCR	IgG Viral RNA	Past infection Ser Current infection Tic	rum icks
															according to their morphological characteristics, colle time and place, and	lection d												
															quantity of ticks, an stored at - 80 C. Generally, 50–100 t grouped as a pool w	nd were ticks were												
															tube containing 2 m Dulbecco modified medium (DMEM; C Carlsbad, CA, USA	nL 1 Eagle Gibco, A).												
Morrill, 1990 Morrill, 1990 Morrill, 1990 Mostafavi, 2012	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic Non probabilistic	Consecutive sampling Consecutive sampling Consecutive sampling Consecutive sampling	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMonocenterProspectivel	y Egypt y Egypt y Egypt y Iran	Lower-middle income economies Lower-middle income economies Lower-middle income economies Upper-middle-income economies	Northern Africa198Northern Africa198Northern Africa198Southern Asia201	986-1987 986-1987 986-1987 0010-2011	Unclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedI	Unclear/Not reportedUnclear/Not reported	ported Community-based ported Community-based ported Community-based ported Community-based	Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not a	pplicable pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactyla	Camel Cow Sheep Sheep		Agar gel diffusion precipitation test, Indirect immunofluorescence assayAgar gel diffusion precipitation test, Indirect immunofluorescence assayAgar gel diffusion precipitation test, Indirect immunofluorescence assayIndirect ELISA	Antibodies Antibodies Antibodies IgG	Past infectionSerPast infectionSerPast infectionSerPast infectionSer	rum rum erum jerum
Mostafavi, 2013	Cross sectional	Non probabilistic	Consecutive sampling	Monocenter Prospectivel	y Iran	Upper-middle-income economies	Southern Asia 199	999–2011	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rej	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Livestock showed a positive history of CCHF virus infection if IgG against the virus was confirmed by specific enzyme- lipled immunoscient assay	Moderate risk of bias Other animals Artiodactyla	Cattle		Indirect ELISA	IgG	Past infection Ser	um
Mostafavi, 2013	Cross sectional	Non probabilistic	Consecutive sampling	Monocenter Prospectivel	y Iran	Upper-middle-income economies	Southern Asia 199	999–2011	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rej	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Livestock showed a positive history of CCHF virus infection if IgG against the virus was confirmed by specific enzyme-	Moderate risk of bias Other animals Artiodactyla	Goat		Indirect ELISA	IgG	Past infection Ser	rum
Mostafavi, 2013	Cross sectional	Non probabilistic	Consecutive sampling	Monocenter Prospectivel	y Iran	Upper-middle-income economies	Southern Asia 199	999–2011	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rej	ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	linked immunosorbent assay. Livestock showed a positive history of CCHF virus infection if IgG against the virus was	Moderate risk of bias Other animals Artiodactyla	Sheep		Indirect ELISA	IgG	Past infection Ser	rum
Mostafavi, 2014	Cross sectional	Non probabilistic	Consecutive sampling	Monocenter Prospectivel	y Iran	Upper-middle-income economies	Southern Asia Au	Aug/1999-Apr/2012	21	Unclear/Not reported 70.1 Unclear/Not rej	ported Hospital-based	Laboratory	Unclear/Not reported Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	A suspected case is one presenting hemorrhagic signs, fever and	ing A probable case is defined as a suspected case with	confirmed by specific enzyme- linked immunosorbent assay. A confirmed case is defined as a probable case with a positive IgM	Low risk of bias Humans-Prevalence	CCHFV suspected cases		Classical RT-PCR, Indirect ELISA	IgG, IgM, Viral RNA	Current infection Ser	ərum
																			history of a tick bite or crushing a tick by hand, direct contact with fresh blood or any other tissue of	e thrombocytopenia (a platelet count of less than 150,000/ml3) a concomitant with leucopaenia or leukocytosis.	IgG antibody titer or reverse transcriptase-PCR for the virus [Chinikar et al., 2008].							
																			infected livestock or animals, dire contact with blood or secretions o internal body parts of confirmed o suspected CCHF cases, or residing	rect or l or ing								
																			in or traveling to a rural area with possibility of contact with livestoc or ticks).	th a ock								
Mostafavi, 2014	Cross sectional	Non probabilistic	Consecutive sampling	Monocenter Prospectivel	y Iran	Upper-middle-income economies	Southern Asia Au	Aug/1999-Apr/2012	21	Unclear/Not reported 70.1 Unclear/Not rep	ported Hospital-based	Laboratory	Unclear/Not reported Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	A suspected case is one presenting hemorrhagic signs, fever and myalgia, together with a positive	ing A probable case is defined as a suspected case with thrombocytopenia (a platelet count of less than 150,000/ml3)	A confirmed case is defined as a probable case with a positive IgM at serological test and an increase in IgC antibody titer or reverse	Low risk of bias Humans-CFR	Positive among CCHFV suspected cases		Classical RT-PCR, Indirect ELISA	IgG, IgM, Viral RNA	Current infection Ser	rum
																			history of a tick bite or crushing a tick by hand, direct contact with fresh blood or any other tissue of infected livestock or animals, dire	a concomitant with leucopaenia or leukocytosis.	transcriptase-PCR for the virus [Chinikar et al., 2008].							
																			contact with blood or secretions o internal body parts of confirmed o suspected CCHF cases, or residing in or traveling to a rural area with	or l or ing th a								
																			possibility of contact with livestoc or ticks).	ock								
Mostafavi, 2017 Mourya, 2012 Mourya, 2012 Mourya, 2012	Cross sectional Cross sectional Cross sectional Cross sectional	Probabilistic Non probabilistic Non probabilistic Non probabilistic	Simple random sampling Consecutive sampling Capture Capture	MulticenterProspectivelMulticenterRetrospectivelMulticenterRetrospectivelMulticenterRetrospectivelMulticenterRetrospectivelMulticenterRetrospectivel	y Iran rely India rely India rely India	Upper-middle-income economies Lower-middle income economies Lower-middle income economies Lower-middle income economies Lower-middle income economies	Southern Asia 201 Southern Asia Dev Southern Asia Dev Southern Asia Dev Southern Asia Dev Southern Asia Dev	2011 Dec/2010-Jan/2011 Dec/2010-Jan/2011 Dec/2010-Jan/2011	33.5 I Unclear/Not reported I Unclear/Not reported I Unclear/Not reported I	Adults: 19+ years 100 Unclear/Not reported Unclear/Not reported Unclear/Not reported Urban/rural	Community-based Hospital-based Community-based Community-based	Not applicable (if not in the hospital) Tertiary hospital, Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Hospitalized Not applicable (if not in the hospital) Uncle Not applicable (if not in the hospital)	pplicable pplicable ear/ Not reported ear/ Not reported	Not applicableNot applicableNot applicableNot applicableNoNot applicableNoNot applicableNoNot applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Unclear/Not reported Not applicable Not applicable	Not applicable Unclear/Not reported Not applicable Not applicable Not applicable	Not applicable Unclear/Not reported Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Low risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence Moderate risk of bias Individual tick Moderate risk of bias Individual tick Moderate risk of bias Individual tick Ornithodoros Artiodactule	High risk individuals CCHFV suspected cases Hyalomma anatolicum Ormithodoros savygni Buffele		Indirect ELISA Indirect ELISA Real Time RT-PCR Real Time RT-PCR Indirect ELISA	IgG IgM Viral RNA Viral RNA	Past infection Ser Recent infection Ser Current infection Tic Current infection Tic Past infection Ser	rum rum icks icks
Mourya, 2012 Mourya, 2012 Mourya, 2012 Mourya, 2012 Mourya, 2012	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic Non probabilistic Non probabilistic Non probabilistic	Consecutive sampling Consecutive sampling Consecutive sampling Consecutive sampling	Multicenter Retrospectiv Multicenter Retrospectiv Multicenter Retrospectiv Multicenter Retrospectiv Multicenter Retrospectiv	rely India rely India rely India rely India rely India	Lower-middle income economies Lower-middle income economies Lower-middle income economies Lower-middle income economies	Southern Asia Dev Southern Asia Dev Southern Asia Dev Southern Asia Dev Southern Asia Dev	Dec/2010-Jan/2011 Dec/2010-Jan/2011 Dec/2010-Jan/2011 Dec/2010-Jan/2011 Dec/2010-Jan/2011	Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U	Unclear/Not reported Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported Urban/rural	Community-based Community-based Community-based Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not a Not applicable (if not in the hospital) Not a Not applicable (if not in the hospital) Not a Not applicable (if not in the hospital) Not a Not applicable (if not in the hospital) Not a Not applicable (if not in the hospital) Not a	pplicable pplicable pplicable pplicable pplicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Other animals Artiodactyla	Cattle Goat Pig Rattus rattus		Indirect ELISA Indirect ELISA Indirect ELISA Real Time RT-PCR	IgG IgG IgG Viral RNA	Past infection Ser Past infection Ser Past infection Ser Querent infection Ser	rum rum rum erum
Mourya, 2012 Mourya, 2012 Mourya, 2014 Mourya, 2014	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilisticNon probabilisticProbabilisticProbabilisticProbabilistic	Consecutive sampling Capture Capture Simple random sampling	MulticenterRetrospectivMulticenterRetrospectiveMulticenterProspectiveMulticenterProspective	y India y India y India y India	Lower-middle income economies Lower-middle income economies Lower-middle income economies Lower-middle income economies	Southern AsiaDerSouthern AsiaDerSouthern AsiaUnSouthern AsiaUn	Dec/2010-Jan/2011 Dec/2010-Jan/2011 Jnclear/Not reported Jnclear/Not reported	Unclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedI	Unclear/Not reportedUnclear/Not reportedUrban/ruralUnclear/Not reportedUnclear/Not reportedUrban/ruralUnclear/Not reportedUnclear/Not reportedRuralUnclear/Not reportedUnclear/Not reportedRural	Community-based Community-based Community-based Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)UncleNot applicable (if not in the hospital)UncleNot applicable (if not in the hospital)Not applicable (if not in the hospital)	pplicable ear/ Not reported ear/ Not reported pplicable	Not applicableNot applicableNoUnclear/ Not reportNoNot applicableNot applicableNot applicable	Not applicable ted Size Not applicable Not applicable	Not applicable Unclear/ Not reported Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsArtiodactylaModerate risk of biasTick poolsModerate risk of biasIndividual tickModerate risk of biasIndividual tickHyalommaArtiodactylaModerate risk of biasOther animalsArtiodactyla	Sheep Positive tick pool species Hyalomma species Bovine	Hyalomma anatolicum anatolicum	Indirect ELISA Real Time RT-PCR Real Time RT-PCR Indirect ELISA	IgG Viral RNA Viral RNA IgG	Past infection Ser Current infection Tic Current infection Tic Past infection Ser	rum cks icks jerum
Mourya, 2014 Mourya, 2014 Mourya, 2015 Mourya, 2015	Cross sectional Cross sectional Cross sectional Cross sectional	Probabilistic Probabilistic Non probabilistic Non probabilistic	Simple random sampling Simple random sampling Consecutive sampling Consecutive sampling	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y India y India y India y India	Lower-middle income economies Lower-middle income economies Lower-middle income economies	Southern AsiaUnSouthern AsiaUnSouthern Asia201Southern Asia201	Unclear/Not reported Unclear/Not reported 2013-2014 2013-2014	Unclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedIUnclear/Not reportedI	Unclear/Not reportedUnclear/Not reportedRuralUnclear/Not reportedUnclear/Not reportedRuralUnclear/Not reportedUnclear/Not reportedUrban/ruralUnclear/Not reportedUnclear/Not reportedUrban/rural	Community-based Community-based Community-based Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)	pplicable pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsMixed animals	Goat Sheep Goat Mixed animals	Bovine, Dog	Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG IgG IgG	Past infection Ser Past infection Ser Past infection Ser Past infection Ser	rum rum erum erum
Mourya, 2017	Cross sectional	Non probabilistic	Consecutive sampling	Monocenter Retrospectiv	ely India	Lower-middle income economies	Southern Asia Jan	an/2014-Sep/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rep	ported Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	A suspected patient is defined as an individual with abrupt onset of high fever >38.5°C with one of the following symptoms: severe headache myalgia nausea	s Probable CCHF patient is defined of as a suspected CCHF patient fulfilling, in addition, the following criteria: thrombocytopenia <50 000/ul and two of the	A confirmed CCHF patient is one who is laboratory-confirmed8.	Low risk of bias Humans-Prevalence	CCHFV suspected cases		Classical RT-PCR, Indirect ELISA	IgM, Viral RNA	Current infection Ser	um
																			vomiting and/or diarrhoea with a history of tick bite within 14 days before the onset of symptoms; or history of contact with tissues,	a following haemorrhagic manifestations: haematoma at an injection site, petechiae, purpuric rash, rhinorrhagia, haematemesis,								
																			blood or other biological fluids from a possibly infected animal within 14 days prior the onset of symptoms; or healthcare workers	haemoptysis, gastrointestinal (GI) haemorrhage, gingival haemorrhage or any other haemorrhagic manifestation in the								
																			history of exposure to a suspect, probable or laboratoryconfirmed CCHF patient, within 14 days before the onset of symptoms.	factor for haemorrhagic manifestation.	15							
Mourya, 2017	Cross sectional	Non probabilistic	Consecutive sampling	Monocenter Retrospectiv	rely India	Lower-middle income economies	Southern Asia Jan	an/2014-Sep/2015	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not rep	ported Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	A suspected patient is defined as an individual with abrupt onset of high fever >38.5°C with one of th following symptoms: severe	s Probable CCHF patient is defined of as a suspected CCHF patient fulfilling, in addition, the following criteria: thrombocytopenia	A confirmed CCHF patient is one who is laboratory-confirmed8.	Low risk of bias Humans-CFR	Positive among CCHFV suspected cases		Classical RT-PCR, Indirect ELISA	IgM, Viral RNA	Current infection Ser	rum
																			headache, myalgia, nausea, vomiting and/or diarrhoea with a history of tick bite within 14 days before the onset of symptoms; or	<pre><50,000/µl and two of the following haemorrhagic manifestations: haematoma at an injection site, petechiae, purpuric</pre>								
																			history of contact with tissues, blood or other biological fluids from a possibly infected animal within 14 days prior the onset of symptoms: or healthcare workers	rash, rhinorrhagia, haematemesis, haemoptysis, gastrointestinal (GI) haemorrhage, gingival f haemorrhage or any other haemorrhagic manifestation in the								
																			in healthcare facilities, with a history of exposure to a suspect, probable or laboratoryconfirmed CCHF patient, within 14 days	absence of any known precipitating factor for haemorrhagic manifestation.	ng							
Mourya, 2019 Mourya, 2019 Mourya, 2019	Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic	Consecutive sampling Consecutive sampling Consecutive sampling	Multicenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel	y India y India y India	Lower-middle income economies Lower-middle income economies Lower-middle income economies	Southern Asia201Southern Asia201Southern Asia201	2015-2016-2017 2015-2016-2017 2015-2016-2017	Unclear/Not reported I Unclear/Not reported I Unclear/Not reported I	Unclear/Not reported48Urban/ruralUnclear/Not reported48Urban/ruralUnclear/Not reported48Urban/rural	Community-based Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Not applicable Not applicable	before the onset of symptoms. Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence	Apparently healthy individuals Healtcare workers High risk individuals		Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG IgG	Past infection Ser Past infection Ser Past infection Ser	erum
Muianga, 2017 Müller, 2016 Müller, 2016 Müller, 2016	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilisticNon probabilisticNon probabilisticNon probabilistic	Consecutive sampling Consecutive sampling Consecutive sampling Consecutive sampling	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y Mozambique y Ghana y Panama y Republic of the Congo	Low-income economies Lower-middle income economies High-income economies Lower-middle income economies	Eastern AfricaMaWest Africa200Central America200Central Africa200	Mar/2015-Mar/2016 2003-2011 2003-2011 2003-2011	27IUnclear/Not reportedUUnclear/Not reportedUUnclear/Not reportedU	All ages35.7UrbanUnclear/Not reportedUnclear/Not reportedRuralUnclear/Not reportedUnclear/Not reportedRuralUnclear/Not reportedUnclear/Not reportedRural	Hospital-based Community-based Community-based Community-based	Health Centers Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	AmbulatoryNot aNot applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not a	pplicable pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Not applicable Not applicable Not applicable	Unclear/Not reported Not applicable Not applicable Not applicable	Unclear/Not reported Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasHumans-PrevalenceModerate risk of biasOther animalsChiropteraModerate risk of biasOther animalsChiropteraModerate risk of biasOther animalsChiroptera	Febrile patients Bat Bat Bat		Indirect ELISA Indirect immunofluorescence assay Indirect immunofluorescence assay Indirect immunofluorescence assay	IgG Antibodies Antibodies Antibodies	Past infectionSerPast infectionSerPast infectionSerPast infectionSer	rum rum erum erum
Müller, 2016 Müller, 2016 Mustafa, 2011 Mustafa, 2011	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Probabilistic Probabilistic Probabilistic	Consecutive sampling Consecutive sampling Simple random sampling Simple random sampling	Multicenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel	y Gabon y Germany y Afghanistan y Afghanistan	Upper-middle-income economies High-income economies Low-income economies Low-income economies Low-income economies	Central Africa200Western Europe200Southern Asia200Southern Asia200Southern Asia200	2003-2011 2003-2011 2009 2009 2009	Unclear/Not reported U Unclear/Not reported I Unclear/Not reported I Unclear/Not reported I Unclear/Not reported I	Unclear/Not reported Unclear/Not reported Rural Unclear/Not reported Unclear/Not reported Rural All ages Unclear/Not reported Rural Unclear/Not reported Unclear/Not reported Rural Unclear/Not reported Unclear/Not reported Rural	Community-based Community-based Community-based Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	pplicable pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Other animals Mixed animals Moderate risk of bias Other animals Mixed animals Low risk of bias Humans-Prevalence Mixed animals Moderate risk of bias Other animals Artiodactyla Moderate risk of bias Other animals Artiodactyla	Mixed animals Mixed animals Apparently healthy individuals Mixed animals Sheep	Baboon, Bat Baboon, Bat Camel, Cattle	Indirect immunofluorescence assay Indirect immunofluorescence assay Indirect ELISA Indirect ELISA Indirect ELISA	Antibodies Antibodies IgG IgG	Past infection Ser	rum rum srum erum
Nabeth, 2004	Cross sectional	Non probabilistic	Consecutive sampling	Multicenter Prospectivel	y Mauritania	Lower-middle income economies	West Africa Feb	Feb/2003-Aug/2003	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Urban/rural	Community-based	Unclear/Not reported	Not applicable (if not in the hospital) Not applicable	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	A probable case was defined as occurring in someone who had an unexplained fever and acute hemorrhagic symptoms, such as	Unclear/Not reported	Moderate risk of bias Humans-Prevalence	Apparently healthy individuals		Indirect ELISA, Classical RT-PCR, Culture	IgG, IgM, Live virus, Viral RNA	Current infection Ser	rum
																				petechiae, epistaxis, gingival hemorrhages, hematemesis, or melena, or who had an unexplained and contact with othe	er							
Nabeth, 2004	Cross sectional	Non probabilistic	Consecutive sampling	Multicenter Prospectivel	y Mauritania	Lower-middle income economies	West Africa Feb	Feb/2003-Aug/2003	Unclear/Not reported	Unclear/Not reported Unclear/Not reported Urban/rural	Hospital-based	Unclear/Not reported	Not applicable (if not in the hospital) Not a	pplicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	A probable case was defined as occurring in someone who had an unexplained fever and acute	Unclear/Not reported	Moderate risk of bias Humans-Prevalence	CCHFV suspected cases		Indirect ELISA, Classical RT-PCR, Culture	IgG, IgM, Live virus, Viral RNA	Current infection Ser	rum
																				hemorrhages, hematemesis, or melena, or who had an unexplained and contact with other	er							
Nabeth, 2004 Nabeth, 2004 Nabeth, 2004	Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic	Capture Capture Capture	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y Mauritania y Mauritania y Mauritania	Lower-middle income economies Lower-middle income economies Lower-middle income economies	West Africa Feb West Africa Feb West Africa Feb	Feb/2003-Aug/2003 Feb/2003-Aug/2003 Feb/2003-Aug/2003	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported T	Unclear/Not reportedUnclear/Not reportedUrban/ruralUnclear/Not reportedUnclear/Not reportedUrban/ruralUnclear/Not reportedUnclear/Not reportedUrban/rural	Community-based Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Uncle Not applicable (if not in the hospital) Uncle Not applicable (if not in the hospital) Uncle	ear/ Not reported ear/ Not reported ear/ Not reported	No Not applicable No Not applicable No Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	case-patient. Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasIndividual tickHyalommaModerate risk of biasIndividual tickHyalommaModerate risk of biasIndividual tickHyalomma	Hyalomma dromedarii Hyalomma impeltatum Hyalomma marginatum rufipes		Culture Culture Culture	Live virus Live virus Live virus	Current infection Tic Current infection Tic Current infection Tic	cks icks icks
Nabeth, 2004 Nabeth, 2004 Nabeth, 2004 Nabeth, 2004	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic Non probabilistic	Consecutive sampling Consecutive sampling Consecutive sampling Consecutive sampling	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y Mauritania y Mauritania y Mauritania y Mauritania	Lower-middle income economies Lower-middle income economies Lower-middle income economies	West AfricaFetWest AfricaFetWest AfricaFetWest AfricaFet	Geb/2003-Aug/2003 Geb/2003-Aug/2003 Geb/2003-Aug/2003 Geb/2003-Aug/2003 Geb/2003-Aug/2003	Unclear/Not reported I Unclear/Not reported I Unclear/Not reported I Unclear/Not reported I	Unclear/Not reported Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported Urban/rural Unclear/Not reported Unclear/Not reported Urban/rural	Community-based Community-based Community-based Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not a	pplicable pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactylaModerate risk of biasOther animalsArtiodactyla	Goat Goat Sheep Sheep		Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgM IgG IgM	Past infection Ser Recent infection Ser Past infection Ser Recent infection Ser Graduation Ser	rum rum erum erum
Nabeth, 2004 Nadeem, 2003 Nadeem, 2003 Negredo, 2010	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic Non probabilistic Non probabilistic	Capture Consecutive sampling Consecutive sampling Capture	Multicenter Prospectivel Monocenter Prospectivel Monocenter Prospectivel Multicenter Prospectivel Multicenter	y Mauritania y Pakistan y Pakistan y Spain	Lower-middle income economies Lower-middle income economies Lower-middle income economies High-income economies	West AfricaFebSouthern AsiaJunSouthern AsiaJunSouthern Europe201Southern Europe201	veb/2003-Aug/2003 un/2001-Oct/2001 un/2001-Oct/2001 2011-2015	Unclear/Not reported I 32 A 32 A Unclear/Not reported I Unclear/Not reported I	Unclear/Not reportedUnclear/Not reportedUrban/ruralAll ages76.47UrbanAll ages76.47UrbanUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reported	Community-based Hospital-based Hospital-based ported Community-based	INOT applicable (if not in the hospital) Hospital Hospital Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital)UncleHospitalizedNot aHospitalizedNot aNot applicable (if not in the hospital)UncleNot applicable (if not in the hospital)Uncle	ear/ Not reported pplicable ear/ Not reported ear/ Not reported	INONot applicableNot applicableNot applicableNot applicableNot applicableNoNot applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Not applicable Unclear/Not reported Unclear/Not reported Not applicable	Not applicable Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Tick pools Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence Moderate risk of bias Individual tick Moderate risk of bias Individual tick Moderate risk of bias Individual tick	Positive tick pool species Febrile patients Febrile patients Hyalomma lusitanicum	Rhipicephalus evertsi	Culture Classical RT-PCR Indirect ELISA Classical RT-PCR Classical RT-PCR Classical RT-PCP	Live virus Viral RNA IgM and IgG Viral RNA	Current infection Tic. Current infection Ser Past infection Ser Current infection Tic. Current infection Tic.	KS rum srum icks ficks
Negredo, 2019 Negredo, 2019 Negredo, 2019 Negredo, 2019 Negredo, 2019	Cross sectional Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic Non probabilistic Non probabilistic Non probabilistic	Capture Capture Capture Capture Capture	MulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMulticenterProspectivelMulticenterProspectivel	y Spain y Spain y Spain y Spain y Spain y Spain	High-income economies High-income economies High-income economies High-income economies High-income economies	Southern Europe201Southern Europe201Southern Europe201Southern Europe201Southern Europe201	2011-2015 2011-2015 2011-2015 2011-2015	Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U Unclear/Not reported U	Unclear/Not reportedUnclear/Not reported	ported Community-based ported Community-based ported Community-based ported Community-based ported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Uncle	ear/ Not reported ear/ Not reported ear/ Not reported ear/ Not reported ear/ Not reported	No Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasIndividual tickHyalommaModerate risk of biasIndividual tickMixed tick speciesModerate risk of biasIndividual tickRhipicephalusModerate risk of biasIndividual tickRhipicephalusModerate risk of biasIndividual tickRhipicephalus	Mixed tick species Rhipicephalus bursa Rhipicephalus species Unspecified tick	H. lusitanicum, H. marginatum, Ixodes ricinus	Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA Viral RNA Viral RNA	Current infection Tic Current infection Tic Current infection Tic Current infection Tic Current infection Tic	icks icks icks
Németh, 2013 Newman, 2014 Niazi, 2019 Niazi, 2019	Cross sectional Cross sectional Cross sectional Cross sectional	Non probabilistic Non probabilistic Non probabilistic Non probabilistic Non probabilistic	Consecutive sampling Consecutive sampling Consecutive sampling Consecutive sampling	Monocenter Prospectivel Monocenter Prospectivel Monocenter Prospectivel Monocenter Prospectivel	y Hungary y Afghanistan y Afghanistan y Afghanistan	High-income economies Low-income economies Low-income economies Low-income economies	Eastern Europe200Southern AsiaMaSouthern AsiaJanSouthern AsiaJan	2008-2009 Mar/2008-Oct/2011 an/2017-Dec/2017 an/2017-Dec/2017	Unclear/Not reported Unclear/Not reported U 35.5 A 35.5 A	Unclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedAll ages60.3UrbanAll ages60.3Urban	Community-based ported Community-based Hospital-based Hospital-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Hospital	Not applicable (if not in the hospital)Not aNot applicable (if not in the hospital)Not aHospitalizedNot aHospitalizedNot a	pplicable pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Not applicable Not applicable Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasOther animalsLagomorphaModerate risk of biasHumans-PrevalenceModerate risk of biasHumans-PrevalenceModerate risk of biasHumans-Prevalence	Lupus europeus Apparently healthy individuals CCHFV suspected cases CCHFV suspected cases		Indirect ELISA, Immunoflorescent assay Indirect ELISA Classical RT-PCR Indirect ELISA	IgG Antibodies Viral RNA IgM	Past infection Ser Past infection Ser Current infection Ser Recent infection Ser	:um :rum erum ;erum
Niazi, 2019 No author listed, 2006 No author listed, 2006 Nur, 1999	Cross sectional Cross sectional Cross sectional Community outbreak	Non probabilistic Non probabilistic Non probabilistic Non probabilistic	Consecutive sampling Consecutive sampling Consecutive sampling Consecutive sampling	Monocenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel Multicenter Prospectivel	y Afghanistan y Turkey y Turkey y Democratic Republic of the	Low-income economies Upper-middle-income economies Upper-middle-income economies Congo Low-income economies	Southern AsiaJanWestern AsiaJanWestern AsiaJanCentral AfricaFey	an/2017-Dec/2017 an/2006-Jun/2006 an/2006-Jun/2006 Fev/1998	35.5 A Unclear/Not reported U Unclear/Not reported U Unclear/Not reported A	All ages60.3UrbanUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedAll agesUnclear/Not reportedUnclear/Not reported	Hospital-based ported Unclear/Not reported ported Unclear/Not reported ported Hospital-based	Hospital Unclear/Not reported Unclear/Not reported Health Centers	HospitalizedNot aUnclear/Not reportedNot aUnclear/Not reportedNot aAmbulatoryNot a	pplicable pplicable pplicable pplicable	Not applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Humans-CFR Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-CFR Moderate risk of bias Humans-Prevalence Moderate risk of bias Humans-Prevalence	Positive among CCHFV suspected cases CCHFV suspected cases Positive among CCHFV suspected cases Febrile patients		Classical RT-PCR, Indirect ELISA Real Time RT-PCR Real Time RT-PCR Indirect immunofluorescence assay; Indirect ELISA	Viral RNA, IgM Viral RNA Viral RNA IgG	Current infection Ser Current infection Ser Current infection Ser Past infection Ser	rum rum srum erum
O'Hearn, 2016	Cross sectional	Non probabilistic	Consecutive sampling	Multicenter Prospectivel	y Democratic Republic of the Sierra Leone	Low-income economies	Central AfricaFevWest Africa200	007-2014	Unclear/Not reported I	Unclear/Not reported Unclear/N	ported Unclear/Not reported	Unclear/Not reported	AnnounatoryNot aUnclear/Not reportedNot a	pplicable	Not applicableNot applicableNot applicableNot applicable	Not applicable Not applicable	Not applicable	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Humans-Prevalence	Febrile patients		Luminex Mag- Pix	IgG	Past infection Ser	erum

Orkun, 2019 Cro	ross sectional	Non probabilistic Capture Multic	center Prospectively	Turkey	Upper-middle-income economies	Western Asia 2013-2015	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	bital) The collected ticks were identified morphologically according to the taxonomic keys of Arthur (1965), Filipova (1977), Walker et al., (2000), Apanaskevich (2003), Estrada-Pena et al., (2004), and Apanaskevich and Horak (2005). While adult ticks were identified to species level, the larvae and nymphs were generally identified to genus level to avoid misidentification. However, some nymphs (such as, I. ricinus and H. excavatum) that have certain distinguishing morphological features and detailed keys were able to be identified to species level. Engorged nymphs obtained from hosts were incubated under the suitable conditions to allow them to molt into the adult stage (as unfed ticks). These ticks were identified to species level after molting to the adult stage. Also, fully engorged female ticks collected from animals and ground were maintained in an incubator under the suitable conditions until they oviposited and the larvae hatched.	No The obtained ticks were pooled into groups consisting of 1–40 ticks according to the degree of blood-sucking and body size, while each group included the same species gathered from same individual host.	Durce of 1–40	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Haemaphysalis	Haemaphysalis erinacei		Classical RT-PCR	Viral RNA	Current infection Ticks Image: Second sec
Orkun, 2019 Cro	ross sectional I	Non probabilistic Capture Multic	center Prospectively	Turkey	Upper-middle-income economies	Western Asia 2013-2015	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	bital) The collected ticks were identified morphologically according to the taxonomic keys of Arthur (1965), Filipova (1977), Walker et al., (2000), Apanaskevich (2003), Estrada-Pena et al., (2004), and Apanaskevich and Horak (2005). While adult ticks were identified to species level, the larvae and nymphs were generally identified to genus level to avoid misidentification. However, some nymphs (such as, I. ricinus and H. excavatum) that have certain distinguishing morphological features and detailed keys were able to be identified to species level. Engorged nymphs obtained from hosts were incubated under the suitable conditions to allow them to molt into the adult stage (as unfed ticks). These ticks were identified to species level after molting to the adult stage. Also, fully engorged female ticks collected from animals and ground were maintained in an incubator under the suitable conditions until they oviposited and the larvae hatched.	No The obtained ticks were pooled into groups consisting of 1–40 ticks according to the degree of blood-sucking and body size, while each group included the same species gathered from same individual host.	purce of 1–40	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Haemaphysalis	Haemaphysalis punctata		Classical RT-PCR	Viral RNA	Current infection Ticks
Orkun, 2019 Cro	ross sectional I	Non probabilistic Capture Multic	center Prospectively	Turkey	Upper-middle-income economies	Western Asia 2013-2015	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	bital) The collected ticks were identified morphologically according to the taxonomic keys of Arthur (1965), Filipova (1977), Walker et al., (2000), Apanaskevich (2003), Estrada-Pena et al., (2004), and Apanaskevich and Horak (2005). While adult ticks were identified to species level, the larvae and nymphs were generally identified to genus level to avoid misidentification. However, some nymphs (such as, I. ricinus and H. excavatum) that have certain distinguishing morphological features and detailed keys were able to be identified to species level. Engorged nymphs obtained from hosts were incubated under the suitable conditions to allow them to molt into the adult stage (as unfed ticks). These ticks were identified to species level after molting to the adult stage. Also, fully engorged female ticks collected from animals and ground were maintained in an incubator under the suitable conditions until they oviposited and the larvae hatched.	No The obtained ticks were pooled into groups consisting of 1–40 ticks according to the degree of blood-sucking and body size, while each group included the same species gathered from same individual host.	purce of 1–40	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Haemaphysalis	Haemaphysalis sulcata		Classical RT-PCR	Viral RNA	Current infection Ticks
Orkun, 2019 Cro	ross sectional I	Non probabilistic Capture Multic	center Prospectively	Turkey	Upper-middle-income economies	Western Asia 2013-2015	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	bital) The collected ticks were identified morphologically according to the taxonomic keys of Arthur (1965), Filipova (1977), Walker et al., (2000), Apanaskevich (2003), Estrada-Pena et al., (2004), and Apanaskevich and Horak (2005). While adult ticks were identified to species level, the larvae and nymphs were generally identified to genus level to avoid misidentification. However, some nymphs (such as, I. ricinus and H. excavatum) that have certain distinguishing morphological features and detailed keys were able to be identified to species level. Engorged nymphs obtained from hosts were incubated under the suitable conditions to allow them to molt into the adult stage (as unfed ticks). These ticks were identified to species level after molting to the adult stage. Also, fully engorged female ticks collected from animals and ground were maintained in an incubator under the suitable conditions until they oviposited and the larvae hatched.	No The obtained ticks were pooled into groups consisting of 1–40 ticks according to the degree of blood-sucking and body size, while each group included the same species gathered from same individual host.	purce of 1-40	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Hyalomma	Hyalomma aegyptium		Classical RT-PCR	Viral RNA	Current infection Ticks
Orkun, 2019 Cro	ross sectional	Non probabilistic Capture Multic	center Prospectively	Turkey	Upper-middle-income economies	Western Asia 2013-2015	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	pital) The collected ticks were identified morphologically according to the taxonomic keys of Arthur (1965), Filipova (1977), Walker et al., (2000), Apanaskevich (2003), Estrada-Pena et al., (2004), and Apanaskevich and Horak (2005). While adult ticks were identified to species level, the larvae and nymphs were generally identified to genus level to avoid misidentification. However, some nymphs (such as, I. ricinus and H. excavatum) that have certain distinguishing morphological features and detailed keys were able to be identified to species level. Engorged nymphs obtained from hosts were incubated under the suitable conditions to allow them to molt into the adult stage (as unfed ticks). These ticks were identified to species level after molting to the adult stage. Also, fully engorged female ticks collected from animals and ground were maintained in an incubator under the suitable conditions until they oviposited and the larvae hatched.	No The obtained ticks were pooled into groups consisting of 1–40 ticks according to the degree of blood-sucking and body size, while each group included the same species gathered from same individual host.	purce of 1-40	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Hyalomma	Hyalomma species		Classical RT-PCR	Viral RNA	Current infection Ticks
Orkun, 2019 Cro	ross sectional I	Non probabilistic Capture Multic	center Prospectively	Turkey	Upper-middle-income economies	Western Asia 2013-2015	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	bital) The collected ticks were identified morphologically according to the taxonomic keys of Arthur (1965), Filipova (1977), Walker et al., (2000), Apanaskevich (2003), Estrada-Pena et al., (2004), and Apanaskevich and Horak (2005). While adult ticks were identified to species level, the larvae and nymphs were generally identified to genus level to avoid misidentification. However, some nymphs (such as, I. ricinus and H. excavatum) that have certain distinguishing morphological features and detailed keys were able to be identified to species level. Engorged nymphs obtained from hosts were incubated under the suitable conditions to allow them to molt into the adult stage (as unfed ticks). These ticks were identified to species level after molting to the adult stage. Also, fully engorged female ticks collected from animals and ground were maintained in an incubator under the suitable conditions until they oviposited and the larvae hatched.	No The obtained ticks were pooled into groups consisting of 1–40 ticks according to the degree of blood-sucking and body size, while each group included the same species gathered from same individual host.	purce of 1–40	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Ixodes	Ixodes ricinus		Classical RT-PCR	Viral RNA	Current infection Ticks
Orkun, 2019 Cro	ross sectional I	Non probabilistic Capture Multic	center Prospectively	Turkey	Upper-middle-income economies	Western Asia 2013-2015	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	bital) The collected ticks were identified morphologically according to the taxonomic keys of Arthur (1965), Filipova (1977), Walker et al., (2000), Apanaskevich (2003), Estrada-Pena et al., (2004), and Apanaskevich and Horak (2005). While adult ticks were identified to species level, the larvae and nymphs were generally identified to genus level to avoid misidentification. However, some nymphs (such as, I. ricinus and H. excavatum) that have certain distinguishing morphological features and detailed keys were able to be identified to species level. Engorged nymphs obtained from hosts were incubated under the suitable conditions to allow them to molt into the adult stage (as unfed ticks). These ticks were identified to species level after molting to the adult stage. Also, fully engorged female ticks collected from animals and ground were maintained in an incubator under the suitable conditions until they oviposited and the larvae hatched.	No The obtained ticks were pooled into groups consisting of 1–40 ticks according to the degree of blood-sucking and body size, while each group included the same species gathered from same individual host.	purce of 1–40	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Tick	z pools	Positive tick pool species	Dermacentor marginatus, Hyalomma excavatum, marginatum, Rhipicephalus turanicus, Riphiceph Haemaphysalis parva	Hyalomma alus bursa, Classical RT-PCR	Viral RNA	Current infection Ticks
Ozbey, 2014 Cro Ozdarendeli, 2008 Cro	ross sectional	Non probabilistic Consecutive sampling Multic Non probabilistic Capture Multic	center Prospectively center Unclear/ Not report	Turkey orted Turkey	Upper-middle-income economies Upper-middle-income economies	Western Asia 2005-2010 Western Asia May/2005-Aug/2005; May/2006-Aug/2006	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Uncl Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Hospital-ba	ased Unclear/Not reported y-based Not applicable (if not in the hospital)	Hospitalized Not applicable (if not in the hospi	pital) The ticks were morphologically	Not applicable Not applicable Not applicable No The identified ticks were Species, source or	of capture 8–20	Unclear/Not reported Not applicable	Unclear/Not reported Not applicable	Unclear/Not reported	All of the cases were confirmed CCHF immunoglobulin M (IgM positivity and/or PCR RNA positivity. Unclear/Not reported	M) Moderate risk of bias Indi	nans-CFR vidual tick Haemaphysalis	Positive among CCHFV suspected of Haemaphysalis sulcata	cases	Classical RT-PCR, Indirect ELISA Classical RT-PCR	IgM, Viral RNA Viral RNA	Current infection Serum Current infection Ticks
												examined under a stereomicroscope and identified using a guide to the identification of species.	d pooled into groups of 8–20 according to species, host, and geographic origin and were stored at 70 C for a week.	2											
Citatenden, 2008		with probabilistic Capture Munic	Center Onclean/ Not repor		opper-madie-income economies	western Asia May/2005-Aug/2005, May/2006-Aug/2006	Unclear/Not reported	Unclear/Not reported Unch	lean/Not reported Community	y-based (if not in the nospital)	Not applicable (if not in the nosp	examined under a stereomicroscope and identified using a guide to the identification of species.	d d pooled into groups of 8–20 according to species, host, and geographic origin and were stored at 70 C for a week.	or capture 6–20				Unclear/Not reported	Moderate fisk of blas find	rigatonina				Virai KINA	
Ozdarendeli, 2008 Cro	ross sectional	Non probabilistic Capture Multic	center Unclear/ Not repor	orted Turkey	Upper-middle-income economies	Western Asia May/2005-Aug/2005; May/2006-Aug/2006	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	bital) The ticks were morphologically examined under a stereomicroscope and identified using a guide to the identification of species.	d No The identified ticks were pooled into groups of 8–20 according to species, host, and geographic origin and were stored at	of capture 8–20	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Tick	z pools	Positive tick pool species	Boophylus annulatus, Hyalomma marginatum ma Rhipicephalus bursa	rginatum, Classical RT-PCR	Viral RNA	Current infection Ticks
Ozkurt, 2006 Cro	ross sectional I	Non probabilistic Consecutive sampling Monod	pcenter Prospectively	Turkey	Upper-middle-income economies	Western Asia 2002-2004	40	Adults: 19+ years 53.3	Unclear/Not reported Hospital-ba	ased University Hospital	Hospitalized	Not applicable	Not applicable Not applicable Not applicable	Not applicable	For the assessment of risk fa for CCHF in our region, the suspected and confirmed Co cases were compared with t control group (nZ120), rand chosen healthy individuals.	actors be defined as those who had clinicall observed sign and symptoms (e.g. malaise, fever, bleeding), epidemiological risk factors (being bitten by tick or being a farmer) and laboratory data consisting of a	e Unclear/Not reported lly g. ng	Confirmed cases with CCHF w defined as those who met the criteria for having a suspected o of CCHF and had also positive microbiologic test results.	vere Low risk of bias Hun	nans-Prevalence	CCHFV suspected cases		Indirect ELISA	IgG	Past infection Serum
Ozkurt, 2006 Cro	ross sectional	Non probabilistic Consecutive sampling Monod	ocenter Prospectively	Turkey	Upper-middle-income economies	Western Asia 2002-2004	40	Adults: 19+ years 53.3	Unclear/Not reported Hospital-ba	ased University Hospital	Hospitalized	Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable	For the assessment of risk fa for CCHF in our region, the suspected and confirmed Co cases were compared with t control group (nZ120), rand chosen healthy individuals.	platelet (PLT) count of !150 000/mm3, white blood cell (WBC count of !4000/mm3, and elevated liver enzymes. actors be defined as those who had clinicall observed sign and symptoms (e.g. malaise, fever, bleeding), epidemiological risk factors (being bitten by tick or being a farmer) and laboratory data consisting of a platelet (PLT) count of !150 000/mm3, white blood cell (WBC count of !4000/mm3, and elevated	C) ed Unclear/Not reported lly g. ng f a C) ed	Confirmed cases with CCHF w defined as those who met the criteria for having a suspected o of CCHF and had also positive microbiologic test results.	vere Low risk of bias Hun case	nans-Prevalence	CCHFV suspected cases		Indirect ELISA	IgM	Recent infection Serum
Palomar, 2016 Cro Palomar, 2016 Cro	ross sectional	Non probabilisticCaptureMulticNon probabilisticCaptureMultic	center Prospectively center Prospectively	Spain Spain	High-income economies High-income economies	Southern Europe Jan/2009-sep/2015 Southern Europe Jan/2009-sep/2015	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Uncl Unclear/Not reported Uncl	lear/Not reported Urban/rural Community lear/Not reported Urban/rural Community	y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi Not applicable (if not in the hospi	bital) Molecular ans morphological approaches bital) Molecular ans morphological	Yes Not applicable Not applicable Yes Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	liver enzymes. Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Indi Moderate risk of bias Indi	vidual tick Hyalomma vidual tick Mixed tick species	Hyalomma marginatum Mixed tick species	Dermacentor niveus, Hyalomma marginatum	Real Time RT-PCR Real Time RT-PCR	Viral RNA Viral RNA	Current infection Ticks Current infection Ticks
Palomar, 2017CropPalomar, 2017CropPalomar, 2017CropPalomar, 2017CropPalomar, 2017Crop	ross sectional 1 ross sectional 1 ross sectional 1 ross sectional 1	Non probabilistic Consecutive sampling Monoc Non probabilistic Capture Monoc	ocenter Prospectively ocenter Prospectively ocenter Prospectively ocenter Prospectively ocenter Prospectively	Spain Spain Spain Spain	High-income economies High-income economies High-income economies High-income economies	Southern Europe2013-2015Southern Europe2013-2015Southern Europe2013-2015Southern Europe2013-2015Southern Europe2013-2015	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Uncl Unclear/Not reported Uncl Unclear/Not reported Uncl Unclear/Not reported Uncl	lear/Not reported Rural Community lear/Not reported Rural Community lear/Not reported Rural Community lear/Not reported Rural Community	y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital)	Not applicable (if not in the hosping Not applicable (if not in the hosping Not applicable (if not in the hosping Not applicable (if not in the hosping)	approaches bital) Not applicable bital) Unclear/ Not reported bital) Unclear/ Not reported bital) Unclear/ Not reported bital) Unclear/ Not reported	Not applicableNot applicableNot applicableNoNot applicableNot applicableNoNot applicableNot applicableNoNot applicableNot applicableNoNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicableNot applicableNot applicableNot applicableNot applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Hum Moderate risk of bias Indi Moderate risk of bias Indi Moderate risk of bias Indi	nans-Prevalence vidual tick Hyalomma vidual tick Hyalomma vidual tick Rhipicephalus	Apparently healthy individuals Hyalomma lusitanicum Hyalomma marginatum Rhipicephalus bursa		Indirect immunofluorescence assay Classical RT-PCR Classical RT-PCR Classical RT-PCR	IgG Viral RNA Viral RNA Viral RNA	Past infection Serum Current infection Ticks Current infection Ticks Current infection Ticks
Panayotova, 2016CroPanayotova, 2016CroPapa, 2008CroPapa, 2008CroPapa, 2009Cro	ross sectionalIross sectionalIross sectionalIross sectionalIross sectionalIross sectionalI	Non probabilisticCaptureMulticNon probabilisticCaptureMulticNon probabilisticConsecutive samplingMulticNon probabilisticConsecutive samplingMulticNon probabilisticCaptureMultic	center Prospectively center Prospectively center Prospectively center Prospectively center Prospectively	Bulgaria Bulgaria Albania Albania Albania	Upper-middle-income economies Upper-middle-income economies Upper-middle-income economies Upper-middle-income economies Upper-middle-income economies	Eastern EuropeJun/2014-jul/2014Eastern EuropeJun/2014-jul/2014Southern EuropeMay/2003-Jun/2006Southern EuropeMay/2003-Jun/2006Southern Europe2003–2005	Unclear/Not reported Unclear/Not reported 30 30 Unclear/Not reported	Unclear/Not reportedUnclUnclear/Not reportedUnclAll ages50All ages50Unclear/Not reportedUncl	lear/Not reported Urban/rural Community lear/Not reported Urban/rural Community Rural Community Rural Unclear/Not lear/Not reported Unclear/Not reported Community	y-basedNot applicable (if not in the hospital)y-basedNot applicable (if not in the hospital)y-basedNot applicableot reportedUnclear/Not reportedy-basedNot applicable (if not in the hospital)	Not applicable (if not in the hosping in the hospi	Unclear/ Not reported Dital) Unclear/ Not reported Not applicable Not applicable Dital) Unclear/ Not reported	INONot applicableNot applicableNoNot applicableNot applicableUnclear/ Not reportedTicks were groupedSpecies, Gender,	Not applicable Not applicable Not applicable Not applicable ., collection Unclear/ Not reported	Not applicableNot applicableUnclear/Not reportedUnclear/Not reportedNot applicable	Not applicable Not applicable Unclear/Not reported Unclear/Not reported Not applicable	Not applicable Not applicable Unclear/Not reported Unclear/Not reported Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of biasIndiModerate risk of biasIndiModerate risk of biasHunModerate risk of biasHunModerate risk of biasIndiModerate risk of biasIndi	vidual tick Hyalomma vidual tick Mixed tick species nans-Prevalence nans-Prevalence vidual tick Rhipicephalus	Hyalomma marginatum Mixed tick species CCHFV suspected cases CCHFV suspected cases Boophilus species	Haemaphysalis parva, Rhipicephalus sanguineus	Keal Time RT-PCR sensu lato Real Time RT-PCR Classical RT-PCR, Real Time RT-PCR Indirect immunofluorescence assay Classical RT-PCR	Viral RNA Viral RNA Viral RNA Antibodies Viral RNA	Current infectionTicksCurrent infectionTicksCurrent infectionSerumPast infectionSerumCurrent infectionTicks
Papa, 2009 Cro	ross sectional	Non probabilistic Capture Multic	center Prospectively	Albania	Upper-middle-income economies	Southern Europe 2003–2005	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	pital) Unclear/Not reported	according to species, gender, location, and year of collection. date Unclear/ Not reported Ticks were grouped according to species, gender, location, and year of collection. Species, Gender, date Unclear/ Not reported Ticks were grouped according to species, gender, location, and year of collection. Species, Gender, date	collection Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Ixodes	Ixodes species		Classical RT-PCR	Viral RNA	Current infection Ticks
Papa, 2009 Cro Papa, 2009 Cro	ross sectional	Non probabilistic Consecutive sampling Multic Non probabilistic Consecutive sampling Multic	center Prospectively center Prospectively	Albania Albania	Upper-middle-income economies	Southern Europe2003–2005Southern Europe2003–2005	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Uncl Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital)	Not applicable (if not in the hosping) Not applicable (if not in the hosping) Not applicable (if not in the hosping)	bital) Not applicable bital) Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Othe Moderate risk of bias Othe	er animals	Bird unsepecified Bird unsepecified Artiodactyla Cattle		Indirect immunofluorescence assay Indirect immunofluorescence assay	IgG IgG	Past infection Serum Past infection Serum
Papa, 2009 Cro Papa, 2009 Cro	ross sectional I ross sectional I	Non probabilistic Consecutive sampling Multic Non probabilistic Capture Multic	center Prospectively center Prospectively	Albania Albania	Upper-middle-income economies Upper-middle-income economies	Southern Europe 2003–2005 Southern Europe 2003–2005	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Uncl Unclear/Not reported Uncl	lear/Not reported Unclear/Not reported Community lear/Not reported Unclear/Not reported Community	y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi Not applicable (if not in the hospi	pital) Not applicable pital) Unclear/ Not reported	Not applicable Not applicable Not applicable Unclear/ Not reported Ticks were grouped according to species, gender, location, and year of collection. Species, Gender, date	Not applicable , collection Unclear/ Not reported	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Other Moderate risk of bias Tick	er animals	Artiodactyla Goat Positive tick pool species	Hyalomma species	Indirect immunofluorescence assay Classical RT-PCR	IgG Viral RNA	Past infection Serum Current infection Ticks
г ара, 2015 Сто Рара, 2016 Сто Рара, 2017 Сто	ross sectional I ross sectional I ross sectional I	Non probabilistic Simple random sampling Multic Non probabilistic Consecutive sampling Multic Non probabilistic Capture Multic	center Prospectively center Prospectively center Prospectively	Greece Greece Greece	High-income economies High-income economies High-income economies	Southern Europe 2010-2012 Southern Europe 2010-2012 Southern Europe Jul/2012-Jun/2013	58 Unclear/Not reported	All ages 42.8 All ages 43.3 Unclear/Not reported Uncl	Kural Hospital-ba Urban/rural Community lear/Not reported Rural	y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital)	Ambulatory Not applicable (if not in the hosping) Not applicable (if not in the hosping)	pital) Not applicable pital) Unclear/ Not reported	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable No Ticks were grouped into pools (1–5 per pool) according to the collection date, location, animal host, tick species, and sex. sex	Not applicable Not applicable location, 1-5 c species, and	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Low risk of bias Hun Moderate risk of bias Hun Moderate risk of bias Indi	nans-Prevalence vidual tick Dermacentor	Apparently healthy individuals High risk individuals Dermacentor marginatus		Indirect ELISA Indirect ELISA Classical RT-PCR	IgG IgG Viral RNA	Past infection Serum Quest infection Serum Current infection Ticks
Papa, 2017 Cro Papa, 2017 Cro	ross sectional 1 ross sectional 1	Non probabilistic Capture Multic Non probabilistic Capture Multic	center Prospectively center Prospectively	Albania Greece	Upper-middle-income economies High-income economies	Southern Europe 2007-2014 Southern Europe Jul/2012-Jun/2013	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Uncl Unclear/Not reported Uncl	lear/Not reported Rural Community lear/Not reported Rural Community	y-based Not applicable (if not in the hospital) y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi Not applicable (if not in the hospi	pital) Unclear/ Not reported pital) Unclear/ Not reported	No Not applicable Not applicable No Ticks were grouped into pools (1–5 per pool) according to the collection date, location, animal host, tick species, and sex. sex	Not applicable location, 1-5 c species, and	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Indi Moderate risk of bias Indi	vidual tick Hyalomma vidual tick Hyalomma	Hyalomma marginatum Hyalomma dromedarii		Classical RT-PCR Classical RT-PCR	Viral RNA Viral RNA	Current infection Ticks Current infection Ticks
Papa, 2017 Cro	ross sectional	Non probabilistic Capture Multic	center Prospectively	Greece	High-income economies	Southern Europe Jul/2012-Jun/2013	Unclear/Not reported	Unclear/Not reported Uncl	lear/Not reported Rural Community	y-based Not applicable (if not in the hospital)	Not applicable (if not in the hospi	pital) Unclear/ Not reported	No Ticks were grouped into pools (1–5 per pool) according to the collection date, location, animal host, tick species, and sex.	location, 1-5	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Indi	vidual tick Hyalomma	Hyalomma marginatum		Classical RT-PCR	Viral RNA	Current infection Ticks
1 apa, 2017	ross sectional	ton probabilistic Capture Multic	Prospectively	Albania	Upper-middle-income economies	2007-2014	Unclear/Not reported	Unclear/Not reported Uncl	Community	y-vascu [Ivoi applicable (if not in the hospital)	Not applicable (if not in the hospi	Dunciear/ Not reported	Not applicable Not applicable	Not applicable	Not applicable	not applicable	TNOT applicable	Unciear/Not reported	pvioderate rísk of bias Indi	Rhipicephalus	Rhipicephalus bursa		Classical KT-PCK	Viral RNA	Current intection Ticks

| Papa, 2017

 | Cross sectional

 | Non probabilistic Capture

 | Multicenter Prospectively

 | Greece

 | High-income economies South

 | nern Europe Jul/2012-Jun/2013

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Rural Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | Unclear/ Not reported

 | Ticks were grouped in
 | to collection date, location,
 | 1-5 Not applicable
 | Not applicable
 | Not applicable
 | Unclear/Not reported
 | Moderate risk of bias Tick pools
 | | Positive tick pool species Rhipicephalus bursa, Rhipicephalus sanguin | eus sensu lato Classical RT-PCR
 | Viral RNA | Current infection Ticks |

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 | according to the collec
date, location, animal
host, tick species, and
 | sex.
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| Papa, 2018
Papa, 2018

 | Cross sectional
Cross sectional

 | Non probabilistic Consecutive sampling I Non probabilistic Consecutive sampling I

 | Monocenter Prospectively Monocenter Prospectively

 | Greece
Greece

 | High-income economies South High-income economies South

 | hern Europe Jun/2015-oct/2015
hern Europe Jun/2015-oct/2015

 | Unclear/Not reported
Unclear/Not reported | Unclear/Not reported Unclea
Unclear/Not reported Unclea

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ar/Not reported Rural Co

 | ommunity-basedNot applicable (if not in the hospital)ommunity-basedNot applicable (if not in the hospital)

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 | Not applicable 1 Not applicable 1
 | Not applicable Not applicable Not applicable Not applicable
 | Not applicable
Not applicable
 | Not applicable
Not applicable
 | Unclear/Not reported
Unclear/Not reported
 | Moderate risk of bias Other animals Moderate risk of bias Other animals
 | Artiodactyla
Artiodactyla | Goat Goat | Indirect ELISA
Indirect ELISA
 | IgM
IgG | Recent infection Serum Past infection Serum |
| Pascucci, 2019

 | Cross sectional

 | Non probabilistic Capture

 | Multicenter Prospectively

 | Italy

 | High-income economies South

 | hern Europe Apr/2013-May/2013

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Unclear/Not reported Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | Preliminary morphological identification
of ticks was carried out with a
stereomicroscope using the dichotomous
key described by Manilla (1998). Ticks

 | Yes Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | Unclear/Not reported
 | Moderate risk of bias Individual tick
 | Hyalomma | Hyalomma marginatum | Real Time RT-PCR
 | Viral RNA | Current infection Ticks |
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 | collected on wild birds are generally
immature and their morphological
identification at species level is

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 | challenging. Consequently, except for
the few nymphs belonging to the Ixodes
genus, which are morphologically

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 | identifiable, all the ticks belonging to
other genera were identified at the
species level by molecular methods. A

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 | small region of the 12S rRNA was
amplified and sequenced to identify the
species (Toma et al., 2014).

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| Pascucci, 2019

 | Cross sectional

 | Non probabilistic Capture

 | Multicenter Prospectively

 | Italy

 | High-income economies South

 | hern Europe Apr/2013-May/2013

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Unclear/Not reported Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | Preliminary morphological identification
of ticks was carried out with a

 | Yes Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | Unclear/Not reported
 | Moderate risk of bias Individual tick
 | Hyalomma | Hyalomma rufipes | Real Time RT-PCR
 | Viral RNA | Current infection Ticks |
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 | key described by Manilla (1998). Ticks
collected on wild birds are generally
immature and their morphological

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 | identification at species level is
challenging. Consequently, except for
the few nymphs belonging to the Ixodes

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 | genus, which are morphologically
identifiable, all the ticks belonging to
other genera were identified at the

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 | species level by molecular methods. A
small region of the 12S rRNA was
amplified and sequenced to identify the

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| Pascucci, 2019

 | Cross sectional

 | Non probabilistic Capture

 | Multicenter Prospectively

 | Italy

 | High-income economies South

 | hern Europe Apr/2013-May/2013

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Unclear/Not reported Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | species (Toma et al., 2014).Preliminary morphological identification

 | Yes Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | Unclear/Not reported
 | Moderate risk of bias Individual tick
 | Hyalomma | Hyalomma species | Real Time RT-PCR
 | Viral RNA | Current infection Ticks |
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 | of ticks was carried out with a
stereomicroscope using the dichotomous
key described by Manilla (1998). Ticks

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 | immature and their morphological
identification at species level is

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 | the few nymphs belonging to the Ixodes
genus, which are morphologically

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 | other genera were identified at the
species level by molecular methods. A
small region of the 12S rRNA was

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 | amplified and sequenced to identify the species (Toma et al., 2014).

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| Qing, 2003

 | Cross sectional

 | Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling

 | Multicenter Retroprospectivel

 | ely China

 | Upper-middle-income economies Easte

 | rn Asia 2001; 1998

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Unclear/Not reported Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | Not applicable

 | Not applicable Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | Unclear/Not reported
 | Moderate risk of bias Other animals
 | Artiodactyla | Sheep Exprile patients | Indirect ELISA; Indirect immunofluorescence assay, Recombinant antigen-
assay; Indirect immunofluorescence assay, Authentic antigen-assay
 | IgG | Past infection Serum |
| Raileanu, 2015
Raileanu, 2015
Rezazadeb 2012

 | Cross sectional
Cross sectional
Cross sectional

 | Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling

 | Unclear/ Not reported Prospectively
Unclear/ Not reported Prospectively
Monocenter Unclear/ Not reported

 | Romania
Romania

 | High-income economies Easte
High-income economies Easte

 | rn Europe Unclear/Not reported
unclear/Not reported
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 | ar/Not reported Unclear/Not reported Co
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 | Oncean Not reported Not applicable Not applicable
 | Not applicable Not applicable Not applicable
 | Unclear/Not reported
Unclear/Not reported
Unclear/Not reported
 | Moderate risk of bias Other animals
Moderate risk of bias Other animals
Moderate risk of bias Other animals
 | Artiodactyla
Artiodactyla
Artiodactyla | Goat Sheep | Indirect ELISA
Indirect ELISA
Indirect ELISA
Indirect ELISA
 | IgG
IgG
IgG | Past infection Serum Past infection Serum Past infection Serum |
| Rodhain, 1989

 | Cross sectional
Cross sectional

 | Non probabilistic Consecutive sampling Non probabilistic Consecutive sampling

 | Multicenter Prospectively Multicenter Prospectively

 | Uganda

 | Low-income economies Easte High-income economies Weste

 | rn Africa 1984

 | Unclear/Not reported | Adults: 19+ years 49.2

 | Urban/rural Ho

 | pospital-based Unclear/Not reported

 | Ambulatory
 | Not applicable

 | Not applicable Not applicable Not applicable Not applicable
 | Not applicable 1 Not applicable 1
 | Not applicable Not applicable Not applicable Unclear/Not ret
 | Not applicable
 | Not applicable
 | detection of antibodies-CCHFV by
IFA
 | Low risk of bias Humans-Prevalence
 | | Apparently healthy individuals CCHEV suspected cases | Indirect EEISA
Indirect immunofluorescence assay
 | Antibodies | Past infection Serum Current infection Serum |
| Rodriguez, 1997

 | Hospital outbreak

 | Non probabilistic Consecutive sampling

 | Multicenter Prospectively

 | United Arab Emirates

 | High-income economies West

 | ern Asia 1994-1995

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Urban/rural Ho

 | ospital-based Unclear/Not reported

 | Unclear/Not reported
 | Not applicable

 | Iot applicable Not applicable
 | Not applicable
 | Not applicable Unclear/Not rep
 | orted Unclear/Not reported
 | Unclear/Not reported
 | and RNA by ELISA, virus isolation
and RT-PCR
 | I ow risk of bias Humans-Prevalence
 | | CCHEV suspected cases | Indirect FLISA
 | | Past infection Serum |
| Rodriguez, 1997

 | Hospital outbreak

 | Non probabilistic Consecutive sampling

 | Multicenter Prospectively

 | United Arab Emirates

 | High-income economies West

 | ern Asia 1994-1995

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Urban/rural Ho

 | ospital-based Unclear/Not reported

 | Unclear/Not reported
 | Not applicable

 | Iot applicable Not applicable
 | Not applicable
 | Not applicable Unclear/Not rep
 | orted Unclear/Not reported
 | Unclear/Not reported
 | and RNA by ELISA, virus isolation
and RT-PCR
 | I ow risk of bias Humans-Prevalence
 | | CCHEV suspected cases | Indirect ELISA
 | IgM | Recent infection Serum |
| Rodriguez 1997

 | Cross sectional

 | Non probabilistic Capture

 | Multicenter Prospectively

 | United Arab Emirates

 | High-income economies West

 | ern Asia 1994-1995

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Urban/rural Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | Unclear/ Not reported

 | Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | and RNA by ELISA, virus isolation
and RT-PCR
 | Moderate risk of bias Individual tick
 | Hyalomma | Hvalomma dromedarij | Culture Classical RT-PCR Direct ELISA
 | Live virus | Current infection Ticks |
| Rodriguez, 1997

 | Cross sectional

 | Non probabilistic Capture

 | Multicenter Prospectively

 | United Arab Emirates

 | High-income economies West

 | ern Asia 1994-1995

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Urban/rural Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | Unclear/ Not reported

 | Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | and RNA by ELISA, virus isolation
and RT-PCR
Detection of IgM, IgG, Ag, virus
 | Moderate risk of bias Individual tick
 | Rhipicephalus | Rhipicephalus species | Culture, Classical RT-PCR, Direct ELISA
 | Live virus | Current infection Ticks |
| Sadeuh-Mba, 2018

 | Cross sectional

 | Probabilistic Simple random sampling

 | Multicenter Prospectively

 | Cameroon

 | Lower-middle income economies Centr

 | ral Africa 2005-2012

 | 44.4 | All ages 58.4

 | Rural Co

 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
 | Not applicable

 | Tot applicable Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | and RNA by ELISA, virus isolation
and RT-PCR
Enzyme-linked Immunosorbent
 | Low risk of bias Humans-Prevalence
 | ce | Apparently healthy individuals | Indirect ELISA
 | IgG | Past infection Serum |
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 | Assays (ELISA) were used to
detect CCHFV IgG antibodies
respectively in plasma samples as
 |
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| Safronetz, 2016

 | Cross sectional

 | Non probabilistic Consecutive sampling

 | Multicenter Retrospectively

 | Mali

 | Low-income economies West

 | Africa 2009-2013

 | Unclear/Not reported | Unclear/Not reported Unclea

 | ar/Not reported Urban/rural Ur

 | nclear/Not reported Unclear/Not reported

 | Unclear/Not reported
 | Not applicable

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 | orted Unclear/Not reported
 | Unclear/Not reported
 | previously
described [10, 11].
Conventional IgM/IgG ELISAs
 | Low risk of bias Humans-Prevalence
 | ce | Febrile patients | Indirect ELISA
 | IgG | Past infection Serum |
| Safronetz, 2016

 | Cross sectional

 | Non probabilistic Consecutive sampling

 | Multicenter Retrospectively

 | Mali

 | Low-income economies West

 | Africa 2009-2013

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 | orted Unclear/Not reported
 | Unclear/Not reported
 | were used for CCHFV
Conventional IgM/IgG ELISAs
were used for CCHFV
 | Low risk of bias Humans-Prevalence
 | ce | Febrile patients | Indirect ELISA
 | IgM | Recent infection Serum |
| Saghafipour, 2019

 | Cross sectional

 | Probabilistic Capture

 | Multicenter Prospectively

 | Iran

 | Upper-middle-income economies South

 | nern Asia 2013-2017

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 | ommunity-based Not applicable (if not in the hospital)

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 | All specimens were identified based
onmorphological characteristics and the
keys given by Janbakhsh (1956) and

 | Not applicable
 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | Detection of IgG and RNA-
CCHFV by using ELISA and RT-
PCR assays
 | Moderate risk of bias Individual tick
 | Hyalomma | Hyalomma anatolicum | Classical RT-PCR
 | Viral RNA | Current infection Ticks |
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 | Hoogsteraal (1956) in the laboratory of
Medical Entomology Tehran.

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| Saghafipour, 2019

 | Cross sectional

 | -robabilistic Capture

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 | Upper-middle-income economies South

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 | Not applicable (if not in the hospital)
 | All specimens were identified based
onmorphological characteristics and the
keys given by Janbakhsh (1956) and

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 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | Detection of IgG and RNA-
CCHFV by using ELISA and RT-
PCR assays
 | Moderate risk of bias Individual tick
 | Knipicephalus | Knipicephalus sanguineus | Classical RT-PCR
 | viral RNA | Current infection Ticks |
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 | Hoogsteraal (1956) in the laboratory of Medical Entomology Tehran.

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| Saghafipour, 2019

 | Cross sectional

 | Probabilistic Multistage sampling

 | Multicenter Prospectively

 | Iran

 | Upper-middle-income economies South

 | nern Asia 2013-2017

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 | ommunity-based Not applicable (if not in the hospital)

 | Not applicable (if not in the hospital)
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 | Not applicable
 | Not applicable Not applicable
 | Not applicable
 | Not applicable
 | Detection of IgG and RNA-
CCHFV by using ELISA and RT-
PCR assays
 | Moderate risk of bias Other animals
 | Artiodactyla | Cow | Indirect ELISA
 | IgG | Past infection Serum |
| Saghafipour, 2019

 | Cross sectional

 | Probabilistic Multistage sampling

 | Multicenter Prospectively

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 | Upper-middle-income economies South

 | nern Asia 2013-2017

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 | Not applicable (if not in the hospital)
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 | Not applicable
 | Detection of IgG and RNA-
CCHFV by using ELISA and RT-
PCR assays
 | Moderate risk of bias Other animals
 | Artiodactyla | Goat | Indirect ELISA
 | IgG | Past infection Serum |
| Saghafipour, 2019

 | Cross sectional

 | Probabilistic Multistage sampling

 | Multicenter Prospectively

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 | Upper-middle-income economies South

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 | Detection of IgG and RNA-
CCHFV by using ELISA and RT-
PCR assays
 | Moderate risk of bias Other animals
 | Artiodactyla | Sheep | Indirect ELISA
 | IgG | Past infection Serum |
| Sahak, 2019

 | Cross sectional

 | Non probabilistic Consecutive sampling

 | Nationally representative Retrospectively

 | Afghanistan

 | Low-income economies South

 | hern Asia Jan/2016-Dec/2018

 | 34 | All ages 68.5

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 | Not applicable

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 | orted The NDSR defines a susp
CCHF case as a patient w
sudden onset of illness w
 | A probable case is defined
suspected case with an acu
history of febrile illness 10
 | as a A confirmed case is defined as any
suspected case with serological
days or confirmation using enzyme-linked
 | Low risk of bias Humans-Prevalence
 | ce | CCHFV suspected cases | Classical RT-PCR, Indirect ELISA
 | IgM, Viral RNA | Current infection Serum |
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 | grade fever over 38.5°C f
than 72 hours and less the
days, especially in CCHF
 | or more less having any two of the
an 10 following symptoms:
thrombocytopenia less than
 | immunosorbent assay (ELISA) to
detect IgM against the CCHF virus
or detection of viral nucleic acid by
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 | area and among those in
with sheep or other livest
(shepherds, butchers, and
 | contact/mm 3 , petechial or purpulockepistaxis, hematemesis,(animalhemoptysis, blood in stools
 | ric rash, real-time reverse transcription-
polymerase chain reaction (RT-
PCR).
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 | associated with headache
muscle pains.
 | and hemorrhagic symptom and
known predisposing host fa
 | no
actors
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| Sahak, 2019

 | Cross sectional

 | Non probabilistic Consecutive sampling

 | Nationally representative Retrospectively

 | Afghanistan

 | Low-income economies South

 | hern Asia Jan/2016-Dec/2018

 | 34 | All ages 68.5

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 | orted The NDSR defines a susp
CCHE case as a patient u
 | bected A probable case is defined
 | as a A confirmed case is defined as any
 | / Low risk of bias Humans-CFR
 | | Positive among CCHFV suspected cases | Classical RT-PCR, Indirect ELISA
 | IgM, Viral RNA | Current infection Serum |
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 | sudden onset of illness w
grade fever over 38.5°C f
 | ith a high-
ith a high-
for more less having any two of the
following symptoms:
 | days or
immunosorbent assay (ELISA) to
detect IgM against the CCHE virus
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 | days, especially in CCHF
area and among those in
with sheep or other livest
 | endemic
contact /mm 3, petechial or purpu
 | n 50,000 or detection of viral nucleic acid by
ric rash, real-time reverse transcription-
 | y
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 | (shepherds, butchers, and
handlers). Fever is usuall
associated with headache
 | (animal hemoptysis, blood in stools
ecchymosis, gum bleeding,
hemorrhagic symptom and
 | s, PCR).
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 | muscle pains.
 | known predisposing host fa
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| Saidi 1075

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Cross sectional

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 | Multicenter Prospectively
Multicenter Prospectively
Multicenter Prospectively

 | Iran
Iran
Mauritania

 | Upper-middle-income economies South
Upper-middle-income economies South
Lower-middle income economies West

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 | Moderate risk of bias Humans-Prevalent
Moderate risk of bias Other animals
 | Ce Mixed animals | Apparently healthy individuals Mixed animals Febrile patients | Agar gel diffusion precipitation test s Agar gel diffusion precipitation test Indirect immunofluorescence assay
 | Antibodies
Antibodies
Antibodies | Past infectionSerumPast infectionSerumPast infectionSerum |
| Saidi, 1975
Saidi, 1975
Saluzzo, 1985

 | Cross sectional

 | Non probabilistic Capture

 | Multicenter Prospectively

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 | Moderate risk of bias Individual tick
 | Hyalomma
Hyalomma | Hyalomma dromedarii Hyalomma impeltatum | Culture
Culture
 | Live virus | Current infection Ticks |
| Salut, 1975
Saluzzo, 1985
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Saluzzo, 1985
Saluzzo, 1985

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 | Multicenter Prospectively
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 | Mauritania
Mauritania

 | Lower-middle income economies West
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 | Moderate risk of bias Individual tick
Moderate risk of bias Other animals
 | Rodentia | Arvicanthis niloticus | Indirect immunofluorescence assay
 | Antibodies | Current infection Ticks Past infection Serum |
| Saluz, 1975
Saluzzo, 1985
Saluzzo, 1985
Saluzzo, 1985
Saluzzo, 1985
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 | Moderate risk of biasIndividual tickModerate risk of biasOther animalsModerate risk of biasOther animalsModerate risk of biasOther animalsModerate risk of biasOther animalsModerate risk of biasTick pools
 | Rodentia Artiodactyla Rodentia | Arvicanthis niloticus Cattle Mastomys erytholeucus Positive tick pool species Hyalomma marginatum rufipes, Hyalomma to | Indirect immunofluorescence assay Indirect immunofluorescence assay Indirect immunofluorescence assay Culture Culture
 | Antibodies
Antibodies
Viral RNA
Live virus | Current infectionTicksPast infectionSerumPast infectionSerumCurrent infectionSerumCurrent infectionTicks |
| Saidi, 1975
Saidi, 1975
Saluzzo, 1985
Saluzzo, 1985
Saluzzo, 1985
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 | Lower-middle income economies West Lower-middle income economies Easte Lower-middle income economies Easte Lower-middle income economies Easte Lower-middle income economies Easte

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 | Moderate risk of biasIndividual tickModerate risk of biasOther animalsModerate risk of biasOther animalsModerate risk of biasOther animalsModerate risk of biasTick poolsModerate risk of biasIndividual tickModerate risk of biasIndividual tickModerate risk of biasIndividual tickModerate risk of biasIndividual tick | Inyalohima Rodentia Rodentia Artiodactyla Rodentia Rodentia Amblyomma Amblyomma Amblyomma Amblyomma
 | Arvicanthis niloticus Arvicanthis niloticus Cattle Mastomys erytholeucus Mastomys erytholeucus Hyalomma marginatum rufipes, Hyalomma to Amblyomma gemma Amblyomma lepidum Amblyomma variegatum | Indirect immunofluorescence assay Indirect immunofluorescence assay Indirect immunofluorescence assay runcatum Culture Classical RT-PCR Classical RT-PCR Classical RT-PCR Classical RT-PCR | Antibodies
Antibodies
Viral RNA
Live virus
Viral RNA
Viral RNA
Viral RNA | Current infectionTicksPast infectionSerumPast infectionSerumCurrent infectionSerumCurrent infectionTicksCurrent infectionTicksCurrent infectionTicksCurrent infectionTicksCurrent infectionTicksCurrent infectionTicks |
| Salut, 1975
Saluzzo, 1985
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Sang, 2011
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 | Lower-middle income economies West Lower-middle income economies Easte

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 | Inyatonina Rodentia Rodentia Artiodactyla Rodentia Rodentia Amblyomma Amblyomma Amblyomma Rhipicephalus Rhipicephalus Amblyomma | Arvicanthis niloticusCattleMastomys erytholeucusPositive tick pool speciesHyalomma marginatum rufipes, Hyalomma tAmblyomma gemmaAmblyomma lepidumAmblyomma variegatumRhipicephalus appendiculatusRhipicephalus pulchellusPositive tick pool speciesHyalomma rufipes, Hyalomma truncatum, H
 | Indirect immunofluorescence assayIndirect immunofluorescence assayIndirect immunofluorescence assayruncatumCultureClassical RT-PCRClassical RT-PCR | Antibodies Antibodies Viral RNA Live virus Viral RNA | Current infectionTicksPast infectionSerumPast infectionSerumCurrent infectionTicksCurrent infectionTicks |
| Saidi, 1975
Saidi, 1975
Saluzzo, 1985
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 | Indirect immunofluorescence assayIndirect immunofluorescence assayIndirect immunofluorescence assayruncatumCultureClassical RT-PCRClassical RT-PCRClassical RT-PCRClassical RT-PCRClassical RT-PCRClassical RT-PCRClassical RT-PCRIndirect ELISAIndirect ELISA, Indirect immunofluorescence assayIndirect ELISA, Indirect immunofluorescence assay | Antibodies Antibodies Viral RNA Live virus Viral RNA IgG IgG IgG | Current infectionTicksPast infectionSerumPast infectionSerumCurrent infectionTicksCurrent infectionTicksPast infectionSerumPast infectionSerumPast infectionSerumPast infectionSerum |
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 | fever (<two associated="" weeks)="" with<br="">bleeding from more than one site
e.g. haematemesis, haematuria,
melaena, epistaxis, etc. and a serial
reduction in platelet count.</two>
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| Sheikh, 2005

 | Case-series 1 | Non probabilistic Consecutive sampling Multicent

 | er Prospectively | Pakistan

 | Lower-middle income economies

 | Southern Asia Mar/1997-Feb/2002

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 | The major criteria for admission
were a short history of high grade
fever (<two associated="" weeks)="" with<br="">bleeding from more than one site</two>
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 | w risk of bias Humans-CFR
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 | Positive among CCHFV suspected cases | C
 | assical RT-PCR, Indirect ELISA | IgG, Viral RNA | Current infection Serum | |
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 | e.g. haematemesis, haematuria,
melaena, epistaxis, etc. and a serial
reduction in platelet count.
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| Shepherd, 1985
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Shepherd, 1987

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 | Upper-middle-income economies

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 | ticks were collected) were conducted
according to Estrada-Pen ^a et
al. [15], using a chill-table and a
dissection microscope

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| Sherifi, 2014

 | Cross sectional | Non probabilistic Capture Multicent

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| Sherifi, 2014

 | Cross sectional | Non probabilistic Capture Multicent

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| Sherifi, 2016

 | Cross sectional | Non probabilistic Consecutive sampling Multicent

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 | derate risk of biasOther animalsoderate risk of biasOther animalsoderate risk of biasOther animalsoderate risk of biasIndividual tick
 | Artiodactyla Artiodactyla Artiodactyla Dermacentor
 | Cattle
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 | direct immunofluorescence assay
direct immunofluorescence assay
direct immunofluorescence assay
eal Time RT-PCR | IgM
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Viral RNA | Recent infectionSerumPast infectionSerumRecent infectionSerumCurrent infectionTicks | |
| Sherifi, 2018
Sherifi, 2018
Sherifi, 2018
Sherifi, 2018

 | Cross sectional I Cross sectional I Cross sectional I Cross sectional I | ProbabilisticCaptureMulticentProbabilisticCaptureMulticentProbabilisticCaptureMulticentProbabilisticCaptureMulticent

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er Prospectively | Replublic of Kosovo Replublic of Kosovo Replublic of Kosovo Albania

 | Upper-middle-income economies
Upper-middle-income economies
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Rhipicephalus
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Ixodes ricinus
Rhipicephalus bursa | Ri
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 | eal Time RT-PCR
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eal Time RT-PCR
eal Time RT-PCR | Viral RNA
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| Sherifi, 2018
Shrivastava, 2019
Shrivastava, 2019
Shrivastava, 2019

 | Cross sectional I Cross sectional I Cross sectional I Cross sectional I | ProbabilisticCaptureMulticentNon probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticent

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 | eal Time RT-PCR
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IgG
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| Shuaib, 2020

 | Cross sectional | Non probabilistic Capture Multicent

 | er Prospectively | Sudan

 | Low-income economies

 | Northern Africa Jan/2016-Mar/2016; Mar/2017-Apr/2017

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 |) Ticks were identified using
morphological characters according to
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Apanaskevich et al. (2008),
Apanaskevich et al. (2008),

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 | derate risk of bias Individual tick
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 | eal Time RT-PCR | Viral RNA | Current infection Ticks | |
| Sidira, 2012
Sidira, 2013

 | Cross sectional 1
Cross sectional 1 | Probabilistic Simple random sampling Multicent Probabilistic Simple random sampling Multicent

 | er Prospectively
er Prospectively | Greece
Greece

 | High-income economies
High-income economies

 | Southern Europe Jun/2009-Dec/2010 Southern Europe 2010-2011 Southern Europe 2010-2011

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 | All ages44.All ages63.All ages63.

 | 4.83 Urban
3.4 Urban/rural | Hospital-based H
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| Sidira, 2013
Široký, 2014
Sow, 2016
Sow, 2016

 | Cross sectional I Cross sectional I Cross sectional I Cross sectional I | Probabilistic Simple random sampling Multicent Non probabilistic Capture Multicent Non probabilistic Consecutive sampling Multicent Non probabilistic Consecutive sampling Multicent Non probabilistic Consecutive sampling Multicent

 | er Prospectively
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er Prospectively | Greece
Turkey; Syria
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 | Lower-middle income economies

 | Southern Europe2010-2011Western AsiaApr/2005; Apr/2007-Jun/2007.West AfricaJul/2009-Mar/2013West AfricaJul/2009-Mar/2013

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 | w risk of bias Humans-Prevale
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 | nce Hyalomma nce nce Hyalomma holi holi holi holi holi holi holi holi
 | High risk individuals
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eal Time RT-PCR | IgG
Viral RNA
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Viral RNA | Past infection Serum Current infection Ticks Recent infection Serum Current infection Serum | |
| Suliman, 2017
Sun, 2009
Sun, 2009
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 | Cross sectional I Cross sectional I Cross sectional I Cross sectional I | Probabilistic Simple random sampling Multicent Non probabilistic Consecutive sampling Multicent Non probabilistic Capture Multicent Non probabilistic Capture Multicent

 | er Prospectively
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er Prospectively | Sudan
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 | Low-income economies
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 | Northern AfricaOct/2014-Mar/2015Eastern Asia2004-2005Eastern Asia2004-2005Eastern Asia2004-2005

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Rhipicephalus
 | Camel
High risk individuals
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Rhipicephalus sanguineus | In Re Cr
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| Sun, 2009
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Upper-middle-income economies

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 | everse passive hemagglutination inhibition assay (RPHI)
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| Supply 2015

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 | w risk of bias Humans Preval
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 | CCHEV positive patient | D
 | al Time PT PCP | Viral DNA | Current infaction Serum | |
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 | arrot reported | detection of CCHF virus nucleic
acid by
polymerase chain reaction (PCR)
in national reference laboratories.
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| Swanepoel, 1983

 | Cross sectional | Non probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticent

 | er Prospectively
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 | Artiodactyla | Apparently healthy individuals
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 | direct immunofluorescence assay; Reverse passive hemagglutination
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| Swanepoel, 1983
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 | Hyalomma species, Hyalomma marginatum rufipes, Hyalomma Cutruncatum
 | everse passive hemagglutination inhibition assay (RPHI)
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| Swanepoel, 1983
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 | oderate risk of bias Other animals
oderate risk of bias Tick pools
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 | Artiodactyla | Positive tick pool species
Febrile patients
 | Hyalomma species, Hyalomma marginatum rufipes, Hyalomma Creation truncatum
 | everse passive hemagglutination inhibition assay (RPHI)
alture | Antibodies
Live virus
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| Swanepoel, 1983
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 | Cross sectional 1 | Non probabilisticConsecutive samplingMulticentNon probabilisticCaptureMulticentNon probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticent

 | er Prospectively | South Africa
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 | oderate risk of bias Other animals oderate risk of bias Tick pools oderate risk of bias Humans-Prevale
 | Artiodactyla | Positive tick pool species Febrile patients Patient with hemorrhagic symptoms Febrile patients High risk individuals Patient with hemorrhagic symptoms
 | Hyalomma species, Hyalomma marginatum rufipes, Hyalomma fruncatum Creation Image: transform of the species | everse passive hemagglutination inhibition assay (RPHI)
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| Swanepoel, 1983
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 | Cross sectional 1 | Non probabilisticConsecutive samplingMulticentNon probabilisticCaptureMulticentNon probabilisticConsecutive samplingMulticentNon probabilisticConsecutive samplingMulticentProbabilisticSimple random samplingMulticentProbabilisticSimple random samplingMulticentProbabilisticSimple random samplingMulticent

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 | Artiodactyla
Artiodactyla
Artiodactyla
Artiodactyla
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Artiodactyla | Positive tick pool species Febrile patients Patient with hemorrhagic symptoms Febrile patients High risk individuals
Patient with hemorrhagic symptoms Cattle Positive among CCHFV suspected cases Cattle Cattle Cattle | Hyalomma species, Hyalomma marginatum rufipes, Hyalomma fruncatum Creation truncatum Creation Image: Ima
 | everse passive hemagglutination inhibition assay (RPHI)
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everse passive hemagglutination inhibition assay (RPHI) | Antibodies
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| Swanepoel, 1983
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Tekin, 2012	Cross sectional Nor	n probabilistic Capture	Monocenter	Prospectively Turkey	UI	Upper-middle-income economies Western Asia May/2006-Jun/2007	Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	 1997), Estrada-Pe⁻na et al. (2004) and Apanaskevich and Horak (2008) before testing for the presence of CCHFV. Ticks were identified to species according to identification keys by Nuttall and Warburton (1911, 1915), Pomerantzev (1950), Kaiser and Hoogstraal (1964), Filippova (1977, 	Unclear/ Not reported Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Ind	ividual tick Rh	picephalus	Rhipicephalus turanicus		Real Time RT-PCR	Viral RNA	Current infection Ticks
Telmadarraiy, 2008	Cross sectional Nor	n probabilistic Convenience sampling	Multicenter	Prospectively Iran	U	Upper-middle-income economies Southern Asia 2006	37.38	Child: Birth-18 years 42.5	Jnclear/Not reported Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	1997), Estrada-Pe ⁻ na et al. (2004) and Apanaskevich and Horak (2008) before testing for the presence of CCHFV.	Not applicable Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Hu	mans-Prevalence		High risk individuals		Indirect ELISA	IgG	Past infection Serum
Telmadarraiy, 2008 Telmadarraiy, 2008 Telmadarraiy, 2008 Telmadarraiy, 2010	Cross sectional Non Cross sectional Non Cross sectional Non Cross sectional Pro Cross sectional Pro	n probabilistic Capture n probabilistic Capture n probabilistic Convenience sampling obabilistic Capture	Multicenter Multicenter Multicenter Monocenter Monocenter	ProspectivelyIranProspectivelyIranProspectivelyIranProspectivelyIranProspectivelyIran	Uj Uj Uj Uj Uj	Upper-middle-income economiesSouthern Asia2006Upper-middle-income economiesSouthern Asia2006Upper-middle-income economiesSouthern Asia2006Upper-middle-income economiesSouthern Asia2004Upper-middle-income economiesSouthern Asia2004	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I	Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)) Unclear/ Not reported) Unclear/ Not reported) Not applicable) Unclear/ Not reported) Unclear/ Not reported 	Unclear/ Not reported Not applicable Unclear/ Not reported Not applicable Not applicable Not applicable Unclear/ Not reported Not applicable Unclear/ Not reported Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Ind Moderate risk of bias Ind Moderate risk of bias Otl Moderate risk of bias Ind Moderate risk of bias Ind	ividual tick Hy ividual tick Rh er animals ividual tick De	alomma picephalus Artiodactyla rmacentor	Hyalomma species Rhipicephalus species Sheep Dermacentor marginatus Hyalomma marginatum		Classical RT-PCR Classical RT-PCR Indirect ELISA Real Time RT-PCR Paol Time PT PCR	Viral RNA Viral RNA IgG Viral RNA	Current infectionTicksCurrent infectionTicksPast infectionSerumCurrent infectionTicksCurrent infectionTicks
Telmadarraiy, 2010 Telmadarraiy, 2010 Telmadarraiy, 2010 Telmadarraiy, 2010	Cross sectional Pro	Obabilistic Capture Obabilistic Capture Obabilistic Capture Obabilistic Capture Obabilistic Capture Obabilistic Capture	Monocenter Monocenter Monocenter Monocenter	Prospectively Iran Prospectively Iran Prospectively Iran Prospectively Iran Prospectively Iran	UI UI UI UI	Jpper-middle-income economies Southern Asia 2004–2005 Jpper-middle-income economies Southern Asia 2004–2005	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported U Unclear/Not reported Unclear/Not reported U Unclear/Not reported Unclear/Not reported U Unclear/Not reported Unclear/Not reported U	Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)) Unclear/ Not reported) Not applicable	Unclear/ Not reported Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Ind Moderate risk of bias Ind Moderate risk of bias Ind Moderate risk of bias Ind Moderate risk of bias Ind	ividual tick Hy ividual tick Hy ividual tick Or ividual tick Rh	alomma alomma nithodoros picephalus Artiodactula	Hyalomma marginatum Hyalomma species Ornithodoros lahorensis Rhipicephalus bursa		Real Time RT-PCR Real Time RT-PCR Real Time RT-PCR Real Time RT-PCR Indirect ELISA	Viral RNA Viral RNA Viral RNA Viral RNA	Current infection Ticks Current infection Ticks Current infection Ticks Current infection Ticks Past infection Serum
Telmadarraiy, 2010 Telmadarraiy, 2010 Temocin, 2018 Thomas, 2012	Cross sectional Pro Cross sectional Pro Cross sectional Noi Cross sectional Noi	Dabilistic Simple random sampling obabilistic Simple random sampling n probabilistic Consecutive sampling n probabilistic Consecutive sampling n probabilistic Consecutive sampling	g Monocenter g Monocenter Monocenter Monocenter	Prospectively Iran Prospectively Iran Prospectively Turkey Prospectively Replublic of F	UJ UJ UJ Kosovo UJ	Upper-middle-income economies Southern Asia 2004–2005 Upper-middle-income economies Southern Asia 2004–2005 Upper-middle-income economies Western Asia Jun/2016 Upper-middle-income economies UNSD unclassified 2008-2009	Unclear/Not reported Unclear/Not reported 34.8 23.3	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Adults: 19+ years 45.6 All ages 43	Jnclear/Not reported Community-based Jnclear/Not reported Community-based Jnclear/Not reported Hospital-based Jnclear/Not reported Hospital-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Secondary hospital Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Ambulatory Hospitalized) Not applicable) Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable A suspected case was defined as an acutely ill patient with clinically-observed signs and symptoms of CCHF infection, and with epidemiological risk factors with or without laboratory data indicative of leukopenia or thrombocytopenia	Not applicable Not applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported A confirmed case was defined as patient with detectable CCHF RN in serum samples.	Moderate risk of bias Oti Moderate risk of bias Oti Moderate risk of bias Hu a Low risk of bias Hu A	er animals er animals mans-Prevalence mans-Prevalence	Artiodactyla Artiodactyla	Cow Sheep Healtcare workers CCHFV suspected cases		Indirect ELISA Indirect ELISA Classical RT-PCR	IgG IgG Viral RNA	Past infection Serum Past infection Serum Current infection Serum
Tigoi, 2015	Cross sectional Nor	n probabilistic Consecutive sampling	Multicenter	Prospectively Kenya	Lc	Lower-middle income economies Eastern Africa Sep/2009-Dec/2012	24.4	All ages 41 T	Jnclear/Not reported Hospital-based	Health Centers	Ambulatory	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	The patients presenting with a clinical case definition of acute febrile illness characterized by fever of temperature ‡ 38C and with at least one of the following clinical manifestations: Cough, joint pains, headache, chills, general body malaise, and any signs of bleeding were recruited into the study.	Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Hu	mans-Prevalence		Febrile patients		Indirect ELISA	IgG	Past infection Serum
Tigoi, 2015	Cross sectional Nor	n probabilistic Consecutive sampling	Multicenter	Prospectively Kenya	Lc	Lower-middle income economies Eastern Africa Sep/2009-Dec/2012	24.4	All ages 41	Unclear/Not reported Hospital-based	Health Centers	Ambulatory	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	The patients presenting with a clinical case definition of acute febrile illness characterized by fever of temperature ‡ 38C and with at least one of the following clinical manifestations: Cough, joint pains, headache, chills, general body malaise, and any signs of bleeding were recruited into the study.	g Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Hu	mans-Prevalence		Febrile patients		Indirect ELISA	IgM	Recent infection Serum
Tonbak, 2006	Cross sectional Pro Cross sectional Non Cross sectional Non Cross sectional Non Cross sectional Non	n probabilistic Consecutive sampling n probabilistic Capture n probabilistic Capture	Monocenter Monocenter Multicenter Multicenter Multicenter	Prospectively Algnanistan Prospectively Nigeria Prospectively Turkey Prospectively Turkey	Lic Lic UI UI	Lower-middle income economies West Africa Unclear/Not reported Upper-middle-income economies Western Asia May/2005-Jun/2005 Upper-middle-income economies Western Asia May/2005-Jun/2005	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Adults: 19+ years 100 0 All ages 56.6 0 Unclear/Not reported Unclear/Not reported 0 Unclear/Not reported Unclear/Not reported 0	Jnclear/Not reported Community-based Jnclear/Not reported Community-based Jnclear/Not reported Community-based Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)) Not applicable) Not applicable) Unclear/ Not reported) Unclear/ Not reported	Not applicable Not applicable Not applicable Not applicable Unclear/ Not reported The identified ticks were pooled into groups of 8 20 according to species host, and geographic origin. Unclear/ Not reported The identified ticks were pooled into groups of 8 20 according to species host, and geographic origin.	Not applicable Not applicable ere Species, source of capture geographic origin ere Unclear/ Not reported	Not applicable Not applicable e, 8-20 Unclear/ Not reported	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Hu Moderate risk of bias Ind Moderate risk of bias Ind	ividual tick Hy	alomma	Apparently healthy individuals Apparently healthy individuals Boophilus annulatus Hyalomma sulcata		Indirect ELISA Indirect immunofluorescence assay Classical RT-PCR Classical RT-PCR	Antibodies Viral RNA Viral RNA	Past infection Onclear/Not reported Past infection Serum Current infection Ticks Current infection Ticks
Tonbak, 2006	Cross sectional Nor	n probabilistic Capture	Multicenter	Prospectively Turkey	UI	Upper-middle-income economies Western Asia May/2005-Jun/2005	Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)) Unclear/ Not reported	Unclear/ Not reported The identified ticks were pooled into groups of 8 20 according to species host, and geographic origin. Unclear/ Not reported The identified ticks were pooled into groups of 8 20 according to species host, and geographic origin.	ere Unclear/ Not reported 8 to es,	Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Tic	k pools		Positive tick pool species	Hyalomma marginatum marginatum, Rhipicephalus bursa	Classical RT-PCR	Viral RNA	Current infection Ticks
Tumturk, 2019 Tumturk, 2019 Tuncer, 2014 Tuncer, 2014	Cross sectional Nor Cross sectional Nor Cross sectional Nor Cross sectional Nor	n probabilistic Consecutive sampling n probabilistic Consecutive sampling n probabilistic Consecutive sampling n probabilistic Consecutive sampling	Monocenter Monocenter Multicenter Multicenter	RetrospectivelyTurkeyRetrospectivelyTurkeyProspectivelyTurkeyProspectivelyTurkey	UJ UJ UJ UJ UJ	Upper-middle-income economiesWestern AsiaJan/2011-Jan/2016Upper-middle-income economiesWestern AsiaJan/2011-Jan/2016Upper-middle-income economiesWestern Asia2008-2009Upper-middle-income economiesWestern Asia2008-2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported 59 I Unclear/Not reported 59 I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I	Jnclear/Not reportedHospital-basedJnclear/Not reportedHospital-basedJnclear/Not reportedCommunity-basedJnclear/Not reportedCommunity-based	Unclear/Not reported Unclear/Not reported Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Unclear/Not reported Unclear/Not reported Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable Not applicable) Not applicable) Not applicable	origin. Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Hu Moderate risk of bias Hu Moderate risk of bias Otl Moderate risk of bias Otl	mans-Prevalence mans-Prevalence er animals er animals	Artiodactyla	CCHFV suspected cases CCHFV suspected cases Cattle Cattle		Classical RT-PCR Indirect ELISA Neutralization test Real Time RT-PCR: Direct ELISA	Viral RNA IgM Antibodies Viral RNA: Antigen	Current infection Unclear/Not reported Recent infection Unclear/Not reported Past infection Serum Current infection Serum
Tuncer, 2014 Tuncer, 2014 Tuncer, 2014 Tuncer, 2014 Tuncer, 2014 Tuygun, 2012	Cross sectional Non Cross sectional Non	n probabilistic Consecutive sampling n probabilistic Consecutive sampling	Multicenter Multicenter Multicenter Multicenter Multicenter Multicenter Multicenter	Prospectively Turkey Prospectively Turkey Prospectively Turkey Prospectively Turkey Prospectively Turkey Retrospectively Turkey	UI UI UI UI UI UI UI	Upper-middle-income economiesWestern Asia2008-2009Upper-middle-income economiesWestern Asia2005-2010	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported 9.02	Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Child: Birth-18 years 62	Jnclear/Not reported Community-based Jrban/rural Hospital-based	Not applicable (if not in the hospital) Maternity and Children's Health and Diseases Training and Research Hospital	Not applicable (if not in the hospital) Hospitalized) Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Not applicable Not applicable The diagnosis of suspected CCHF was established according to the presence of an epidemiological risk factor (tick bite or travel to an endemic region, involvement in animal husbandry or farming, contact with the body fluid of a CCHF patient, and individuals with	Not applicable Not applicable Not applicable Not applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported The patients who met the criteria for suspected CCHF and who had positive ELISA for serum immunoglobulin (Ig)M antibody and/or viral RNA on RT-PCR in blood samples were regarded as having confirmed CCHF.	Moderate risk of bias Ott Moderate risk of bias Ott Moderate risk of bias Ott Moderate risk of bias Ott Moderate risk of bias Ott Low risk of bias Hu	er animals er animals er animals er animals er animals mans-Prevalence	Artiodactyla Artiodactyla Artiodactyla Artiodactyla Artiodactyla Artiodactyla	Cattle Goat Goat Sheep Sheep CCHFV suspected cases		Real Time RT-PCR; Direct ELISA Neutralization test Real Time RT-PCR; Direct ELISA Neutralization test Real Time RT-PCR; Direct ELISA Indirect ELISA	Viral RNA; Antigen Antibodies Viral RNA; Antigen Antibodies Viral RNA; Antigen IgM	Current infection Serum Past infection Serum Current infection Serum Current infection Serum Current infection Serum Recent infection Serum
																	similar complaints in the proximity of a CCHF patient), compatible clinical presentation (fever, malaise, bleeding, acute-onset headache, myalgia/arthralgia, lethargy, nausea/vomiting, and abdominal pain/diarrhea) and laboratory data consisting of a platelet (PLT) count <150 000/mm3 and/or white blood cells (WBC) <4000/mm3, and elevated levels of transaminases (32-fold normal limits), lactate dehydrogenase (LDH) and creatine kinase (CK).3,6										
Tuygun, 2012	Cross sectional Nor	n probabilistic Consecutive sampling	Multicenter	Retrospectively Turkey	UI	Upper-middle-income economies Western Asia 2005–2010	9.02	Child: Birth-18 years 62	Jrban/rural Hospital-based	Maternity and Children's Health and Diseases Training and Research Hospital	Hospitalized	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	The diagnosis of suspected CCHF was established according to the presence of an epidemiological risk factor (tick bite or travel to an endemic region, involvement in animal husbandry or farming, contact with the body fluid of a	Unclear/Not reported	The patients who met the criteria for suspected CCHF and who had positive ELISA for serum immunoglobulin (Ig)M antibody and/or viral RNA on RT-PCR in blood samples were regarded as having confirmed CCHF.	Low risk of bias Hu	mans-Prevalence		CCHFV suspected cases		Real Time RT-PCR	Viral RNA	Current infection Serum
																	CCHF patient, and individuals with similar complaints in the proximity of a CCHF patient), compatible clinical presentation (fever, malaise, bleeding, acute-onset headache, myalgia/arthralgia, lethargy, nausea/vomiting, and abdominal pain/diarrhea) and laboratory data consisting of a platelet (PLT) count <150 000/mm3 and/or white blood cells (WBC) <4000/mm3, and elevated levels of transaminases (32-fold normal limits), lactate dehydrogenase (LDH) and creatine kinase (CK).3,6										
Tuygun, 2012	Cross sectional Nor	n probabilistic Consecutive sampling	Multicenter	Retrospectively Turkey	U	Upper-middle-income economies Western Asia 2005–2010	9.02	Child: Birth-18 years 62	Urban/rural Hospital-based	Maternity and Children's Health and Diseases Training and Research Hospital	Hospitalized	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	Unclear/Not reported	The diagnosis of suspected CCHF was established according to the presence of an epidemiological risk factor (tick bite or travel to an endemic region, involvement in animal husbandry or farming, contact with the body fluid of a CCHF patient, and individuals with similar complaints in the proximity of a CCHF patient), compatible	Unclear/Not reported	The patients who met the criteria for suspected CCHF and who had positive ELISA for serum immunoglobulin (Ig)M antibody and/or viral RNA on RT-PCR in blood samples were regarded as having confirmed CCHF.	Low risk of bias Hu	mans-CFR		Positive among CCHFV suspected cases		Real Time RT-PCR, Indirect ELISA	IgM, Viral RNA	Current infection Serum
																	clinical presentation (fever, malaise, bleeding, acute-onset headache, myalgia/arthralgia, lethargy, nausea/vomiting, and abdominal pain/diarrhea) and laboratory data consisting of a platelet (PLT) count <150 000/mm3 and/or white blood cells (WBC) <4000/mm3, and elevated levels of transaminases (32-fold normal limits), lactate dehydrogenase (LDH) and creatine kinase (CK).3,6										
Umoh, 1983 Vawda, 2018 Voorhees, 2018 Voorhees, 2018	Cross sectional Non	n probabilistic Consecutive sampling n probabilistic Consecutive sampling n probabilistic Consecutive sampling n probabilistic Capture	Multicenter Monocenter Multicenter Multicenter	Prospectively Nigeria Retroprospectively South Africa Prospectively Mongolia Prospectively Mongolia	Lo Ul Lo Lo	Lower-middle income economiesWest AfricaUnclear/Not reportedUpper-middle-income economiesSouthern Africa2012; Apr/2016–Feb/2017Lower-middle income economiesEastern Asia2013–2014Lower-middle income economiesEastern Asia2013–2014	Unclear/Not reported 33 Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported I Adults: 19+ years 88.6 I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I	Jnclear/Not reported Community-based Jrban/rural Community-based Jnclear/Not reported Community-based Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)) Not applicable) Not applicable) Not applicable) Unclear/ Not reported	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Unclear/ Not reported We sorted field-collecte unfed specimens by sev and species and placed ticks in pairs into single polycarbonate vials containing prepared me Not applicable	Not applicable Not applicable Not applicable ted Species, Gender ex d le media	Not applicable Not applicable Not applicable 2-8	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Otl Moderate risk of bias Hu Moderate risk of bias Hu Moderate risk of bias Tic	er animals mans-Prevalence mans-Prevalence k pools	Artiodactyla	Cattle High risk individuals Apparently healthy individuals Positive tick pool species	Hyalomma asiaticum	Agar gel diffusion precipitation test Indirect immunofluorescence assay Indirect ELISA Real Time RT-PCR	Antibodies IgG IgG Viral RNA	Past infection Serum Past infection Serum Past infection Serum Current infection Ticks
Wangchuk, 2016 Wangchuk, 2016 Wasfi, 2016	Cross sectional Non Cross sectional Non Cross sectional Non	n probabilistic Consecutive sampling n probabilistic Consecutive sampling n probabilistic Consecutive sampling	Multicenter Multicenter Multicenter	Retrospectively Bhutan Retrospectively Bhutan Prospectively Tunisia	Lc Lc	Lower-middle income economies Southern Asia Apr/2015–May/2015 Lower-middle income economies Southern Asia Apr/2015–May/2015 Lower-middle income economies Northern Africa May/2014–Jun/2014	Unclear/Not reported Unclear/Not reported 39	Unclear/Not reported Unclear/Not reported I Unclear/Not reported Unclear/Not reported I Adults: 19+ years Unclear/Not reported I	Unclear/Not reported Community-based Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/Not reported) Not applicable) Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable	Not applicable Not applicable Samples were collected from patients attending hospitals who had reported fever (n = 181). Samples were also actively taken from abattoir workers (n = 38) in	Not applicable Not applicable Unclear/Not reported	Not applicable Not applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Otl Moderate risk of bias Otl Moderate risk of bias Hu	er animals er animals mans-Prevalence	Artiodactyla Artiodactyla	Cattle Goat Febrile patients		Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG IgG	Past infection Serum Past infection Serum Past infection Serum
Wasfi, 2016	Cross sectional Nor	n probabilistic Consecutive sampling	Multicenter	Prospectively Tunisia	Lc	Lower-middle income economies Northern Africa May/2014–Jun/2014	39	Adults: 19+ years Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported	Unclear/Not reported	Not applicable	Not applicable Not applicable	Not applicable	Not applicable	order to survey evidence of previous exposure among a grou designated as high risk. Samples were collected from patients attending hospitals who had reported fever (n = 181). Samples were also actively taken from abattoir workers (n = 38) in order to survey evidence of previous exposure among a grou designated as high risk.	up Unclear/Not reported n n up	Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Hu	mans-Prevalence		Febrile patients		Indirect ELISA	IgM	Recent infection Serum
Wasfi, 2016 Wasfi, 2016	Cross sectional Non Cross sectional Non	n probabilistic Consecutive sampling n probabilistic Consecutive sampling	Multicenter Multicenter	Prospectively Tunisia Prospectively Tunisia	Lc	Lower-middle income economies Northern Africa May/2014–Jun/2014 Lower-middle income economies Northern Africa May/2014–Jun/2014	39 39	Adults: 19+ years Unclear/Not reported I Adults: 19+ years Unclear/Not reported I	Unclear/Not reported Unclear/Not reported Jnclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable	Not applicable Samples were collected from patients attending hospitals who had reported fever (n = 181). Samples were also actively taken from abattoir workers (n = 38) in order to survey evidence of previous exposure among a group designated as high risk.	Not applicable Unclear/Not reported	Not applicable Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Moderate risk of bias Hu Moderate risk of bias Hu	mans-Prevalence		High risk individuals Febrile patients		Indirect ELISA Real Time RT-PCR	IgG Viral RNA	Past infection Serum Current infection Serum
Watts, 1994 Williams, 2000 Williams, 2000	Cross sectional Non Cross sectional Non Cross sectional Non	n probabilistic Consecutive sampling n probabilistic Convenience sampling n probabilistic Capture	Monocenter Multicenter Multicenter	Prospectively Sudan Prospectively Oman Prospectively Oman	Lc Hi Hi	Low-income economies Northern Africa Unclear/Not reported High-income economies Western Asia Unclear/Not reported High-income economies Western Asia Unclear/Not reported	34 32.9 Unclear/Not reported	All ages 43.8 I Adults: 19+ years 99.2 I Unclear/Not reported Unclear/Not reported I	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Unclear/Not reported Unclear/Not reported Not applicable (if not in the hospital)	Unclear/Not reported Unclear/Not reported Not applicable (if not in the hospital)	Not applicable Not applicable) Ticks were identified by using published taxonomic keys and species accounts (Hoogstraal 1955; Hoogstraal & Kaiser 1959a; Hoogstraal et al. 1981; Matthysse & Colbo 1987) and several voucher specimens of Hyalomma spp. provided by the United States National Tick Museum, Statesboro, Georgia, US A	Not applicable Not applicable Not applicable Not applicable ed Unclear/ Not reported Ticks were pooled by species, host, location, date of collection. er Image: Collection in the second	Not applicable Not applicable Species, source of capture , and collection date	Not applicable Not applicable e, Unclear/ Not reported	Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Hu Moderate risk of bias Hu Moderate risk of bias Ind	mans-Prevalence mans-Prevalence ividual tick Hy	alomma	Febrile patients High risk individuals Hyalomma dromedarii		Enzyme immunoassay Indirect ELISA Direct ELISA	IgG IgG Viral antigen	Past infection Serum Past infection Serum Current infection Ticks
Williams, 2000	Cross sectional Nor	n probabilistic Capture	Multicenter	Prospectively Oman	Hi	High-income economies Western Asia Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported U	Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	 USA. Ticks were identified by using published taxonomic keys and species accounts (Hoogstraal 1955; Hoogstraal & Kaiser 1959a; Hoogstraal et al. 1981; Matthysse & Colbo 1987) and several voucher specimens of Hyalomma spp. provided by the United States National Tick Museum, Statesboro, Georgia, USA. 	ed Unclear/ Not reported Ticks were pooled by species, host, location, date of collection.	Species, source of capture , and collection date	e, Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Ind	ividual tick Rh	picephalus	Rhipicephalus appendiculatus		Direct ELISA	Viral antigen	Current infection Ticks
Williams, 2000	Cross sectional Nor	n probabilistic Capture	Multicenter	Prospectively Oman	Hi	High-income economies Western Asia Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported U	Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)) Ticks were identified by using published taxonomic keys and species accounts (Hoogstraal 1955; Hoogstraal & Kaises 1959a; Hoogstraal et al. 1981; Matthysse & Colbo 1987) and several voucher specimens of Hyalomma spp. provided by the United States National Tick Museum, Statesboro, Georgia, USA. 	ed Unclear/ Not reported Ticks were pooled by species, host, location, date of collection.	Species, source of capture , and collection date	e, Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Ind	ividual tick Rh	ipicephalus	Rhipicephalus species		Direct ELISA	Viral antigen	Current infection Ticks
Williams, 2000 Williams, 2000 Williams, 2000 Williams, 2000	Cross sectional Non	n probabilistic Convenience sampling n probabilistic Convenience sampling n probabilistic Convenience sampling n probabilistic Convenience sampling	Multicenter Multicenter Multicenter Multicenter	ProspectivelyOmanProspectivelyOmanProspectivelyOmanProspectivelyOmanProspectivelyOman	Hi Hi Hi Hi	High-income economiesWestern AsiaUnclear/Not reportedHigh-income economiesWestern AsiaUnclear/Not reportedHigh-income economiesWestern AsiaUnclear/Not reportedHigh-income economiesWestern AsiaUnclear/Not reportedHigh-income economiesWestern AsiaUnclear/Not reported	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/Not reported I	Unclear/Not reported Community-based Unclear/Not reported Community-based Unclear/Not reported Community-based Unclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable (if not in the hospital)	 Not applicable Not applicable Not applicable Not applicable Not applicable 	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported	Moderate risk of bias Ott Moderate risk of bias Ott Moderate risk of bias Ott Moderate risk of bias Ott	er animals er animals er animals er animals	Artiodactyla Artiodactyla Artiodactyla Artiodactyla Artiodactyla	Camel Cattle Goat Sheep		Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA	IgG IgG IgG	Past infectionSerumPast infectionSerumPast infectionSerumPast infectionSerum
Williams, 2000	Cross sectional Nor	n probabilistic Capture	Multicenter	Prospectively Oman	Hi	High-income economies Western Asia Unclear/Not reported	Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Jnclear/Not reported Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)	 Ticks were identified by using published taxonomic keys and species accounts (Hoogstraal 1955; Hoogstraal & Kaises 1959a; Hoogstraal et al. 1981; Matthysse & Colbo 1987) and several voucher specimens of Hyalomma spp. provided by the United States National Tick Museum, Statesboro, Georgia, USA. 	ed Unclear/ Not reported Ticks were pooled by species, host, location, date of collection. er 1	species, source of capture , and collection date	e, Unclear/ Not reported	Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Tic	k pools		Positive tick pool species	Hyalomma anatolicum anatolicum, Hyalomma anatolicum excavatum, Hyalomma species, Rhipicephalus evertsi evertsi	Direct ELISA	Viral antigen	Current infection Ticks
Wilson, 1990 Wilson, 1990 Wood. 1978	Cross sectional Pro Cross sectional Pro	DoabilisticSimple random samplingDobabilisticSimple random samplingDobabilisticCapture	g Nationally representative g Nationally representative Multicenter	Prospectively Senegal Prospectively Senegal Prospectively Ethical		Lower-middle income economies West Africa Nov/1986-Jan/1987 (Animals); 198 (Humans) Lower-middle income economies West Africa Nov/1986-Jan/1987 (Animals); 198 (Humans) Low-income economies Fastern Africa 1074 1076	36-1988 Unclear/Not reported Unclear/Not reported Unclear/Not reported	Unclear/Not reported Unclear/N	Unclear/Not reported Community-based Unclear/Not reported Community-based Urban/rural	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	Not applicable (if not in the hospital) Not applicable (if not in the hospital)	 Not applicable Not applicable Unclear/ Not reported 	Not applicable Not applicable Not applicable Not applicable No ticks were real.	Not applicable Not applicable Engorgement	Not applicable Not applicable Unclear/ Not reported	Not applicable	Not applicable Not applicable	Not applicable	Unclear/Not reported Unclear/Not reported	Low risk of bias Hu Low risk of bias Oth Moderate risk of bias	nans-Prevalence er animals k pools	Artiodactyla	Apparently healthy individuals Sheep Positive tick pool species	Hyalomma impeltatum	Indirect ELISA Indirect ELISA Culture	IgG Live virus	Past infection Serum Past infection Serum Current infection Ticks
Xia, 2011	Cross sectional Pro	n probabilistic Consecutive sampling	Multicenter	Prospectively China	U	Jow-meonic economies Eastern Africa 1974-1976 Upper-middle-income economies Eastern Asia Apr/2008-Jun/2008	42.0	All ages 49.5	Jrban/rural Community-based Urban/rural Hospital-based	Unclear/Not reported	Unclear/Not reported	Not applicable	Iticks were pooled according to stage, sex and species in groups containing up to 50 individuals. Not applicable Not applicable	Not applicable	Not applicable	Participants were those undergo regular physical examinations or medical treatment at local Chine Center for Disease Control and Prevention facilities. In addition 1280 ticks (Hyalomma asiaticum	ing Unclear/Not reported see	Unclear/Not reported	Unclear/Not reported	Low risk of bias Hu	mans-Prevalence		Patient with any illness		Indirect immunofluorescence assay; Western blot	Antibodies	Past infection Serum
Xia, 2011	Cross sectional Nor	n probabilistic Capture	Multicenter	Prospectively China	UI	Upper-middle-income economies Eastern Asia Apr/2008-Jun/2008	Unclear/Not reported	Unclear/Not reported Unclear/Not reported	Jrban/rural Community-based	Not applicable (if not in the hospital)	Not applicable (if not in the hospital)) Unclear/ Not reported	Unclear/ Not reported One thousand two hundred and eighty tick were grouped into 42 pools according to the	ks	18–30	were also collected from local goats and cattle in the five counties. Not applicable	Not applicable	Not applicable	Unclear/Not reported	Moderate risk of bias Tic	k pools		Positive tick pool species	Hyalomma asiaticum	Classical RT-PCR	Viral RNA	Current infection Ticks
Yadav, 2014	Community outbreak Nor	n probabilistic Consecutive sampling	Multicenter	Prospectively India	Lo	Lower-middle income economies Southern Asia Jun/2013-Jul/2013	Unclear/Not reported	Unclear/Not reported Unclear/Not reported U	Jnclear/Not reported Hospital-based	Unclear/Not reported	Unclear/Not reported	Not applicable	Iocation of collection. Not applicable Not applicable	Not applicable	Not applicable	Samples from domestic animals (cattle, sheep, and goats) and infested ticks from the vicinity o the index case (case A) (Karyana and neighboring villages) were collected by the authorities of th Animal Husbandry Department a National Vector Borne Disease Control Programme (NVBDCP) (Table 2). A total of 138 ticks w collected from Karyana, 94 from Nilwada, and 139 from Khamba and were classified and pooled i 30 groups (Supplementary Material, Table S1).	f a e and h la n	Unclear/Not reported	Unclear/Not reported	Moderate risk of bias Hu	mans-Prevalence		Patient with hemorrhagic symptoms		Classical RT-PCR, Real Time RT-PCR	Viral RNA	Current infection Serum

Yadav, 2014 Community outbreak Non probabilistic Consecutive sampling Multicenter Prospectively India Yadav, 2014 Community outbreak Non probabilistic Consecutive sampling Multicenter Prospectively India Yadav, 2014 Community outbreak Non probabilistic Consecutive sampling Multicenter Prospectively India	Lower-middle income economies Southern Asia Jun/2013-Jul/2013 Lower-middle income economies Southern Asia Jun/2013-Jul/2013	Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based	Unclear/Not reported Not applicable Unclear/Not reported Not applicable Unclear/Not reported Not applicable Unclear/Not reported Not applicable	Not applicable Not ap	Not applicable Not applicable	Samples from domestic animals (cattle, sheep, and goats) and infested ticks from the vicinity of the index case (case A) (Karyana and neighboring villages) were collected by the authorities of the Animal Husbandry Department and National Vector Borne Disease Control Programme (NVBDCP) (Table 2). A total of 138 ticks were collected from Karyana, 94 from Nilwada, and 139 from Khambala and were classified and pooled in 30 groups (Supplementary Material, Table S1).Unclear/Not reportedUnclear/NotSamples from domestic animals (withen how on how of control Program device)Unclear/Not reportedUnclear/Not	Not reported Unclear/Not reported Moderate risk of bias Humans-Prevalence Not reported Unclear/Not reported Moderate risk of bias Humans-Prevalence	Febrile patients Febrile patients Patient with hemorrhagic symptoms	Indirect ELISA	IgM Recent infection Serum IgM Recent infection Serum
Yaday, 2014 Community outbreak Non probabilistic Consecutive sampling Multicenter Prospectively India	Lower-middle income economies Southern Asia Jun/2013-Jul/2013	Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based	Unclear/Not reported Not applicable	Not applicable Not applicable N	Not applicable Not applicable	infested ticks from the vicinity of the index case (case A) (Karyana and neighboring villages) were collected by the authorities of the Animal Husbandry Department and National Vector Borne Disease Control Programme (NVBDCP) (Table 2). A total of 138 ticks were collected from Karyana, 94 from Nilwada, and 139 from Khambala and were classified and pooled in 30 groups (Supplementary Material, Table S1). Samples from domestic animals Unclear/Not reported Unclear/Not	Not reported Unclear/Not reported Moderate risk of bias Humans-Prevalence	Febrile patients	Real Time RT-PCR; Classical RT-PC	'R Viral RNA Current infection Serum
						(cattle, sheep, and goats) and infested ticks from the vicinity of the index case (case A) (Karyana and neighboring villages) were collected by the authorities of the Animal Husbandry Department and National Vector Borne Disease Control Programme (NVBDCP) (Table 2). A total of 138 ticks were collected from Karyana, 94 from Nilwada, and 139 from Khambala and were classified and pooled in 30 groups (Supplementary Material, Table S1).				
Yadav, 2014 Community outbreak Non probabilistic Consecutive sampling Multicenter Prospectively India	Lower-middle income economies Southern Asia Jun/2013-Jul/2013	Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based	Unclear/Not reported Not applicable Unclear/Not reported Not applicable	Not applicable Not applicable N	Not applicable Not applicable	Samples from domestic animals (cattle, sheep, and goats) and infested ticks from the vicinity of the index case (case A) (Karyana and neighboring villages) were collected by the authorities of the Animal Husbandry Department and National Vector Borne Disease Control Programme (NVBDCP) (Table 2). A total of 138 ticks were collected from Karyana, 94 from Nilwada, and 139 from Khambala and were classified and pooled in 30 groups (Supplementary Material, Table S1).	Not reported Unclear/Not reported Moderate risk of bias Humans-CFR	Positive among patient with hemorrh	agic symptoms Classical RT-PCR, Real Time RT-PC	CR Viral RNA Current infection Serum Viral RNA Line Line Line Line Viral RNA Line Line Line Line Line Viral RNA Line Line </td
Yadav, 2014Cross sectionalNon probabilisticConsecutive samplingMulticenterProspectivelyIndiaYadav, 2014Cross sectionalNon probabilisticConsecutive samplingMulticenterProspectivelyIndiaYadav, 2014Cross sectionalNon probabilisticConsecutive samplingMulticenterProspectivelyIndiaYadav, 2014Cross sectionalNon probabilisticCaptureMulticenterProspectivelyIndia	Lower-middle income economiesSouthern AsiaJun/2013-Jul/2013Lower-middle income economiesSouthern AsiaJun/2013-Jul/2013Lower-middle income economiesSouthern AsiaJun/2013-Jul/2013Lower-middle income economiesSouthern AsiaJun/2013-Jul/2013	Unclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedCommunity-basedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedCommunity-basedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedCommunity-basedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedCommunity-basedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedUnclear/Not reportedCommunity-based	Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable	Not applicable Not applicable N eported Unclear/ Not reported Unclear/ Not reported S	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Size Unclear/ Not reported	Not applicableNot applicableNot applicaNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	cableUnclear/Not reportedModerate risk of biasOther animalscableUnclear/Not reportedModerate risk of biasOther animalscableUnclear/Not reportedModerate risk of biasOther animalscableUnclear/Not reportedModerate risk of biasTick pools	Artiodactyla Cattle Artiodactyla Goat Artiodactyla Sheep Positive tick pool species	Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA Rhiphicephalous Boophilus Microplus, Hyalomma anotoclicum Classical RT-PCR	IgGPast infectionSerumIgGPast infectionSerumIgGPast infectionSerumViral RNACurrent infectionTicks
Yagci-Caglayik, 2014 Cross sectional Probabilistic Stratified sampling Multicenter Prospectively Turkey Yaqub, 2017 Cross sectional Non probabilistic Consecutive sampling Multicenter Prospectively Pakistan	Upper-middle-income economies Western Asia Unclear/Not reported Lower-middle income economies Southern Asia Aug/2014-Jul/2015	Onclear/Not reported Onclear/Not reported Onclear/Not reported Onclear/Not reported Community-based 40 Adults: 19+ years 49.7 Urban/rural Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable Tertiary hospital Hospitalized Not applicable (if not in the hospital) Not applicable	Not applicable Not applicable N Not applicable Not applicable N	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable The study comprised patients were from dengue endemic areas exhibiting persistent idiopathic fever (> 40 °C) during the previous 60–72 h and were showing one or more clinical symptoms including haemorrhage on skin, severe headache, abdominal or chest pain, vomiting, diarrhoea, and low platelet count (1 × 108/mL). Unclear/Not reported Unclear/Not reported	cable Unclear/Not reported Moderate risk of bias Humans-Prevalence Not reported Unclear/Not reported Low risk of bias Humans-Prevalence	Apparently healthy individuals Febrile patients	Indirect ELISA Indirect ELISA Direct ELISA	IgG Past infection Serum Viral antigen Current infection Serum
Yaqub, 2017 Cross sectional Non probabilistic Consecutive sampling Multicenter Prospectively Pakistan Yaser 2011 Cross sectional Probabilistic Capture Multicenter Prospectively Iran	Lower-middle income economies Southern Asia Aug/2014-Jul/2015 Upper-middle-income economies Southern Asia 2008-2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Tertiary hospital Hospitalized Not applicable Image: Not applicable (if not in the hospital) Not applicable (if not in the hospital) Collected ticks to the hospital)	s from each host were kept No.	Not applicable Not applicable	The study comprised patients were from dengue endemic areas exhibiting persistent idiopathic fever (> 40 °C) during the previous $60-72$ h and were showing one or more clinical symptoms including haemorrhage on skin, severe headache, abdominal or chest pain, vomiting, diarrhoea, and low platelet count (1 × 108/mL).Unclear/Not reportedUnclear/Not reportedNot applicableNot applicableNot applicableNot applicable	Not reported Unclear/Not reported Low risk of bias Humans-Prevalence	Hvalomma Hvalomma anatolicum	Indirect ELISA Indirect ELISA	Antibodies Past infection Serum Viral RNA Current infection Ticks
Yaser, 2011 Cross sectional Probabilistic Capture Multicenter Prospectively Iran	Upper-middle-income economies Southern Asia 2008-2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Collected ticks for the hospital)	te labeled tube, then were le laboratory of Medical School of Public Health, niversity of Medical vere identified by characteristic using a cope based on valid keys[2,17].	Not applicable Not applicable	Not applicable Not applicable Not applicable	cable Unclear/Not reported Moderate risk of bias Individual tick	Hyalomma Hyalomma detritum	Classical RT-PCR	Viral RNA Current infection Ticks
Yaser, 2011Cross sectionalProbabilisticCaptureMulticenterProspectivelyIran	Upper-middle-income economies Southern Asia 2008-2009	Image: Window State Sta	Image: separate in the inseparate interval in the inseparate interval in the inseparate interval inseparate interval inseparate interval inseparate ins	te labeled tube, then were le laboratory of Medical School of Public Health, niversity of Medical vere identified by characteristic using a cope based on valid keys[2,17]. S from each host were kept te labeled tube, then were	Not applicable Not applicable	Not applicable Not applicable Not applicable	cable Unclear/Not reported Moderate risk of bias Individual tick	Hyalomma Hyalomma dromedarii	Classical RT-PCR	Viral RNA Current infection Ticks
Yaser, 2011Cross sectionalProbabilisticCaptureMulticenterProspectivelyIran	Upper-middle-income economies Southern Asia 2008-2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Collected ticks for a separate transfer into the hospital)	e laboratory of Medical School of Public Health, niversity of Medical vere identified by characteristic using a cope based on valid ceys[2,17]. S from each host were kept te labeled tube, then were e laboratory of Medical	Not applicable Not applicable	Not applicable Not applicable Not applicable	cable Unclear/Not reported Moderate risk of bias Individual tick	Hyalomma Hyalomma marginatum	Classical RT-PCR	Viral RNA Current infection Ticks
Vaser, 2011Cross sectionalProbabilisticCaptureMulticenterProspectivelyIran	Upper-middle-income economies Southern Asia 2008-2009	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Collected ticks to alive in separate transfer into the Entomology. Sc	School of Public Health, hiversity of Medical vere identified by characteristic using a cope based on valid ceys[2,17]. S from each host were kept te labeled tube, then were le laboratory of Medical School of Public Health	Not applicable Not applicable	Not applicable Not applicable Not applicable	cable Unclear/Not reported Moderate risk of bias Individual tick	Rhipicephalus Rhipicephalus sanguineus	Classical RT-PCR	Viral RNA Current infection Ticks
Yashina, 2003Cross sectionalNon probabilisticConsecutive samplingUnclear/ Not reportedProspectivelyKazakhstanYashina, 2003Cross sectionalNon probabilisticConsecutive samplingUnclear/ Not reportedProspectivelyKazakhstanYashina, 2003Cross sectionalNon probabilisticConsecutive samplingUnclear/ Not reportedProspectivelyRussiaYashina, 2003Cross sectionalNon probabilisticCaptureUnclear/ Not reportedProspectivelyKazakhstanYesilbag, 2013Cross sectionalNon probabilisticCaptureMulticenterProspectivelyKazakhstan	Upper-middle-income economiesCentral AsiaUnclear/Not reportedUpper-middle-income economiesEastern EuropeUnclear/Not reportedUpper-middle-income economiesCentral AsiaUnclear/Not reportedUpper-middle-income economiesCentral AsiaUnclear/Not reportedUpper-middle-income economiesKestern AsiaUnclear/Not reportedUpper-middle-income economiesWestern Asia2008–2009	Image: https://lineImage: https:/	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable (if not in the hospital) The collected tid according to the according to t	hiversity of Medical were identified by characteristic using a cope based on valid keys[2,17]. Not applicable Not applicable N eported Unclear/ Not reported S ticks were identified heir morphological	Not applicableNot applicableNot applicableNot applicableSize10-15SpeciesUnclear/ Not reported	Unclear/Not reportedUnclear/Not reportedUnclear/NotUnclear/Not reportedUnclear/Not reportedUnclear/NotUnclear/Not reportedUnclear/Not reportedUnclear/NotNot applicableNot applicableNot applicableNot applicableNot applicableNot applicable	Not reportedUnclear/Not reportedModerate risk of biasHumans-PrevalenceNot reportedUnclear/Not reportedModerate risk of biasHumans-PrevalenceNot reportedUnclear/Not reportedModerate risk of biasHumans-PrevalenceCableUnclear/Not reportedModerate risk of biasTick poolsCableUnclear/Not reportedModerate risk of biasTick pools	CCHFV suspected cases CCHFV suspected cases CCHFV suspected cases Positive tick pool species Positive tick pool species	Image: Classical RT-PCR Image: Classical RT-PCR Image: Dermacentor niveus, Hyalomma marginatum Dermacentor niveus, Hyalomma marginatum, Dermacentor marginatus, Hyalomma marginatum, Rhipicephalus bursa, Rhipicephalus turanicus	Viral RNACurrent infectionSerumViral antigenCurrent infectionSerumViral antigenCurrent infectionSerumViral antigenCurrent infectionTicksViral RNACurrent infectionTicks
Image Image <th< td=""><td>Upper-middle-income economies Western Asia 2002—2007</td><td>44 All ages 53 Unclear/Not reported Unclear/Not reported Image: Im</td><td>generation specifications w (Hoogstral 1956 Pena et al. 2004 (Inclear/Not reported Unclear/Not reported Not applicable Not applicable</td><td>with stereomicroscopy 56; Aydin 1994; Estrada 14). Not applicable Not applicable Not applicable</td><td>Not applicable Not applicable</td><td>Risk factors and findings Unclear/Not reported Unclear/Not compatible with CCHF were defined as follows: (1) unclear/Not epidemiological risk factors: tick- bite or tick contact, involvement in animal husbandry or farmer, contact with the body fluid of a CCHF patient or working at a laboratory, and individuals with similar complaints in the proximity of a CCHF patient; (2) clinical findings: fever, hemorrhage, headache of acute onset, myalgia/arthralgia, lethargy, nausea/vomiting, and abdominal pain/diarrhea; (3) laboratory findings: thrombocytopenia (platelet count <150 109/l) and/or</td> leukopenia (white blood cell count <4 109/l) and elevated levels of</th<>	Upper-middle-income economies Western Asia 2002—2007	44 All ages 53 Unclear/Not reported Unclear/Not reported Image: Im	generation specifications w (Hoogstral 1956 Pena et al. 2004 (Inclear/Not reported Unclear/Not reported Not applicable Not applicable	with stereomicroscopy 56; Aydin 1994; Estrada 14). Not applicable Not applicable Not applicable	Not applicable Not applicable	Risk factors and findings Unclear/Not reported Unclear/Not compatible with CCHF were defined as follows: (1) unclear/Not epidemiological risk factors: tick- bite or tick contact, involvement in animal husbandry or farmer, contact with the body fluid of a CCHF patient or working at a laboratory, and individuals with similar complaints in the proximity of a CCHF patient; (2) clinical findings: fever, hemorrhage, headache of acute onset, myalgia/arthralgia, lethargy, nausea/vomiting, and abdominal pain/diarrhea; (3) laboratory findings: thrombocytopenia (platelet count <150 109/l) and/or	Jot reported Among the cases with epidemiological risk factors and clinical and laboratory findings compatible with CCHF, those with confirmed CCHF virus RNA in blood or body fluid samples by reverse transcriptase-polymerase chain reaction (RT-PCR) evaluation or IgM and/or IgG positivity by ELISA were defined as confirmed CCHF cases. Low risk of bias Humans-CFR	Positive among CCHFV suspected c	ises Classical RT-PCR, Direct ELISA, In	lirect ELISA IgG, IgM, Viral RNA Current infection Serum
Yilmaz, 2015Case controlNon probabilisticConsecutive samplingMonocenterProspectivelyTurkey	Upper-middle-income economies Western Asia 2007-2010	46.2Adults: 19+ years43.3Unclear/Not reportedHospital-based	University Hospital Unclear/Not reported Not applicable	Not applicable Not applicable N	Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not	Not reported All individual PCR results were positive for CCHFV in their serum Low risk of bias Humans-CFR	Positive among CCHFV suspected c	ases Classical RT-PCR	Viral RNA Current infection Serum
Zeller, 1994Cross sectionalNon probabilisticCaptureMulticenterProspectivelySenegalZeller, 1994Cross sectionalNon probabilisticCaptureMulticenterProspectivelySenegalZeller, 1994Cross sectionalNon probabilisticCaptureMulticenterProspectivelySenegal	Lower-middle income economies West Africa 1991-1992 Lower-middle income economies West Africa 1991-1992	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable Not applicable (if not in the hospital) Not applicable (if not in the hospital) Not applicable	Not applicable Not applicable N Not applicable Not applicable N	Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	samples which were selected as patient group. samples which were selected as patient group. cable Unclear/Not reported Moderate risk of bias Other animals cable Unclear/Not reported Moderate risk of bias Other animals	Passeriformes Bubalornis albirostris Passeriformes Lamprotornis species	Indirect ELISA Indirect ELISA	IgG Past infection Serum IgG Past infection Serum
Zener, 1994Cross sectionalNon probabilisticCaptureMulticenterProspectivelySenegalZeller, 1994Cross sectionalNon probabilisticCaptureMulticenterProspectivelySenegal	Lower-middle income economiesWest Africa1991-1992Lower-middle income economiesWest Africa1991-1992Lower-middle income economiesWest Africa1991-1992Lower-middle income economiesWest Africa1991-1992	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the nospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicableNot applicable (if not in the hospital)Not applicable (if not in the hospital)Not applicable	Not applicableNot applicableNNot applicableNot applicableNNot applicableNot applicableNNot applicableNot applicableNNot applicableNot applicableN	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	INOT applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	CableUnclear/Not reportedModerate risk of biasOther animalscableUnclear/Not reportedModerate risk of biasOther animals	Passer lormes Passer luteus Pteroclifores Pterocles exustus Columbiformes Streptopelia species Bucerotiformes Tockus erythrorhynchus	Indirect ELISA Indirect ELISA Indirect ELISA Indirect ELISA	IgGPast infectionSerumIgGPast infectionSerumIgGPast infectionSerumIgGPast infectionSerum
Znang, 2019Cross sectionalNon probabilisticConsecutive samplingMulticenterProspectivelySierra LeoneZiauddin, 2018Cross sectionalNon probabilisticConsecutive samplingMonocenterRetrospectivelyPakistanZiauddin, 2018Cross sectionalNon probabilisticConsecutive samplingMonocenterRetrospectivelyPakistanZiauddin, 2018Cross sectionalNon probabilisticConsecutive samplingMonocenterRetrospectivelyPakistan	Low-income economies West Africa Jul/2016-Jun/2017 Lower-middle income economies Southern Asia Jul/2017-Jul/2018 Lower-middle income economies Southern Asia Jul/2017-Jul/2018 Lower-middle income economies Southern Asia Jul/2017-Jul/2018	Unclear/Not reported All ages 59 Rural Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Hospital-based	Onclear/Not reported Not applicable Tertiary hospital Ambulatory Not applicable Tertiary hospital Ambulatory Not applicable Tertiary hospital Ambulatory Not applicable	Not applicable Not applicable N Not applicable Not applicable N Not applicable Not applicable N	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Unclear/Not reported Unclear/Not reported Unclear/Not Unclear/Not reported Viral Hemorrhagic Fever (VHF) Unclear/Not Unclear/Not reported Viral Hemorrhagic Sever (VHF) Unclear/Not Unclear/Not reported Viral Hemorrhagic Fever (VHF) Unclear/Not	Not reportedUnclear/Not reportedModerate risk of biasHumans-PrevalenceNot reportedconfirmed cases of CCHF who met the clinical criteria and also serological tests results that were positive for IgM or IgG CCHF virus specific antibodies by ELISA or genomic segment of the CCHF virus by RT-PCRLow risk of biasHumans-PrevalenceNot reportedconfirmed cases of CCHF who met the clinical criteria and also serological tests results that were positive for IgM or IgG CCHF virus specific antibodies by ELISA or genomic segment of the CCHF virus by RT-PCRLow risk of biasHumans-CFR	Febrile patients CCHFV suspected cases Positive among CCHFV suspected cases	Next-generation sequencing Classical RT-PCR, Indirect ELISA ases Classical RT-PCR, Indirect ELISA, I	Viral RNA Current infection Serum IgM and IgG, Viral antigen, Viral RNA Current infection Serum Direct ELISA IgM and IgG, Viral antigen, Viral RNA Current infection Serum
						clinical features such as high grade fever, myalgia, severe headache, nausea and vomiting	positive for IgM or IgG CCHF virus specific antibodies by ELISA or genomic segment of the CCHF virus by RT-PCR			
Zivcec, 2014Cross sectionalNon probabilisticCaptureMonocenterProspectivelyMali	Low-income economies West Africa Nov/2011, Mar/2012	Unclear/Not reported Unclear/Not reported Unclear/Not reported Unclear/Not reported Community-based	Not applicable (if not in the hospital) Not applicable (if not in the hospital) Unclear/ Not replicable (if not in the hospital)	eported Unclear/ Not reported 3–4 ticks per pool, all collected from the same animal	Source of capture 3-4	Not applicable Not applicable Not applicable	cable Unclear/Not reported Moderate risk of bias Tick pools	Positive tick pool species	Hyalomma species Classical RT-PCR	Viral RNA Current infection Ticks