A. Replication Files:

(i) EM_BOCSAR.dta is ROD data provided by BOCSAR

(ii) Referrals.csv: Data on referrals to assessment for home detention (electronic monitoring) provided by CRES and linked by BOCSAR

(iii) File1.do prepares data for analysis "Can Electronic Monitoring Reduce Reoffending?"

(iv) File2.do produces all results reported in tables and figures contained in the paper "Can Electronic Monitoring Reduce Reoffending?"

B. Data dictionary:

The following variables are from the ROD provided by BOCSAR

Variable	Label
mspdi	ROD person identifier
indexcaseno	ROD case identifier for index contact
indexdate	Date of index contact
jd	Jurisdiction of index contact (C = Children's Court, L = Local Court, D =District Court, S = Supreme Court, R = Drug Court, Y = conference, P =police caution, A = cannabis caution)
bail	If a court appearance, bail status at final appearance (1 = bail dispensed with, 2 = on bail, 3 = in custody, 4 = in custody for prior offence)
convict	If a court appearance, whether guilty on at least one offence and whether there is at least one conviction (0 = Not guilty on any offence, 1 = Guilty without conviction, 2 = Guilty with at least one conviction)
legrep	If a court appearance, whether legally represented at index contact (0 =no, 1 = yes, 2 = inapplicable/unknown)
atsi	ATSI status as recorded for the index contact (0 = non-ATSI, 1 = ATSI, 2= Unknown)
postcode	Postcode as recorded for the index contact
lga	Local government area at index contact derived from postcode (code not description)
refsource	If a conference, source of referral (C = Court, P = Police)
CourtLocationID	If a court appearance, the code for the court where the matter was determined
CourtDescription	If a court appearance, the name of the court where the matter was determined
age	Age at index contact
gender	Gender (0 = female, 1 = male)
dob	Date of birth
dod	Date of death
indig	ROD ATSI status - ever recorded (0 = non-ATSI, 1 = ATSI, 2 = Unknown)
seifa	Index of relative socio-economic disadvantage (IRSD) (SEIFA 2011) for defendant's postcode (low values = more disadvantage)
seifa_q	Quartile within NSW of IRSD (SEIFA 2011) for defendant's postcode (1 = most disadvantage, 4 = least disadvantage)

seifa_pct	Percentile within NSW of IRSD (SEIFA 2011) for defendant's postcode (low values = more disadvantage)
aria_mean	Mean ARIA remoteness index (2001, thresholded) for defendant's postcode
remotenessarea	ABS remoteness area (2011) for defendant's postcode
index_poffno	ROD identifier for principal offence at index contact
index_poanzsoc	ANZSOC group of principal offence at index contact
index_podv	DV flag for lawpart code of the principal offence at the index contact (Y = yes, N = no)
index_pomsr	Seriousness index (Median Severity Ranking) of principal offence at index contact (low values = more serious)
index_polawpart	Lawpart code of the principal offence at the index contact
index_popcarange	If applicable (ANZSOC 0411, 1431), PCA range (1 = low, 2 = medium, 3 =high, 4 = special)
index_pocounts	Number of counts of principal offence at index contact
index_poplea	If a court appearance, plea to the principal offence at the index appearance (0 = not guilty, 1 = guilty, 2= no plea entered , other)
index_ppencode	If a court appearance, principal penalty type at index contact (pencode)
index_ppenval	Principal penalty value at index contact (penval)
index_ptotval	The duration of total term for principal penalty if a prison sentence (totval) where a non-parole period has been set
index_ppenunit	Unit of the principal penalty (penunit)
index_pooffdate	Offence date of the principal offence at index contact
index_podrugtype	Type of drug for the principal offence at index contact (Court data)
index_poincdrugtype	Type of drug at the incident of the principal offence at index contact (i.e.Police data)
index_poincpostcode	Defendant's postcode at the incident of the principal offence at index contact
index_poincsuburb	Defendant's suburb at the incident of the principal offence at index contact
index_poincstate	Defendant's state at the incident of the principal offence at index contact
index_poinclga	Defendant's LGA at the incident of the principal offence at index contact
index_poincsa4	Defendant's SA4 at the incident of the principal offence at index contact
provenoff	If a court appearance, conviction status at index contact: (1 = no proven offences, 2 = at least one proven offence, 3 = all offences proven)
faprdate	If a court appearance, earliest first appearance date across the index appearance
index_concurr	Number of proven concurrent charges at index contact (including principal offence)
index_hom	Number of homicide or related offences at index contact (defined as number of proven offences under ANZSOC 01)
index_actsinj	Number of acts intended to cause injury at index contact (defined as number of proven offences under ANZSOC 02)
index_assault	Number of assault offences at index contact (defined as number of proven offences under ANZSOC 021)
index_serassault	Number of serious assault offences at index contact (defined as number of proven offences under ANZSOC 0211, 0212)
index_sexassrel	Number of sexual assault and related offences at index contact (defined as number of proven offences under ANZSOC 03)
index_sexassault	Number of sexual assault offences at index contact (defined as number of proven offences under ANZSOC 0311, 0312)

index_dangneg	Number of dangerous or negligent acts endangering persons at index contact (defined as number of proven offences under ANZSOC 04)
index_abdhar	Number of abduction, harassment and other offences against the person at index contact (defined as number of proven offences under ANZSOC 05)
index_robrel	Number of robbery, extortion or related offences at index contact (defined as number of proven offences under ANZSOC 06)
index_rob	Number of robbery offences at index contact (defined as number of proven offences under ANZSOC 0611, 0612)
index_brent	Number of unlawful entry with intent/burglary, break and enter at index contact (defined as number of proven offences under ANZSOC 07)
index_theft	Number of theft offences or related at index contact (defined as number of proven offences under ANZSOC 08)
index_fraud	Number of fraud offences or related at index contact (defined as number of proven offences under ANZSOC 09)
index_drug	Number of drug offences at index contact (defined as number of proven offences under ANZSOC 10)
index_weap	Number of weapons or explosives offences at index contact (defined as number of proven offences under ANZSOC 11)
index_propdam	Number of property damage or environmental pollution offences at index contact (defined as number of proven offences under ANZSOC 12)
index_pubord	Number of public order offences at index contact (defined as number of proven offences under ANZSOC 13)
index_traff	Number of traffic offences at index contact (defined as number of proven offences under ANZSOC 14)
index_drive	Number of offences of driving while licence disqualified or suspended at index contact (defined as number of proven offences under ANZSOC 1411)
index_pca	Number of PCA offences at index contact (defined as number of proven offences under ANZSOC 0411 or 1431)
index_just	Number of offences against justice procedures at index contact (defined as number of proven offences under ANZSOC 15)
index_brcust	Number of breach of custodial order offences (defined as any proven offence under ANZSOC 151)
index_brcomm	Number of breach of community order at index contact (defined as any proven offence under ANZSOC 152)
index_brviol	Number of breach of violence order (defined as any proven offence under ANZSOC 153)
index_strindict	Number of strictly indictable offences (proven) at index contact
index_indict	Number of indictable offences (proven) at index contact
index_dvflag	Number of proven offences at index contact that are DV-flagged
index_pris	Given a full-time prison sentence/custodial order at index contact? (pencode 1, 2); (0 = no, 1 = yes)
index_hd	Given a home detention sentence at index contact? (pencode 3); (0 = no, 1 = yes)
index_pd	Given a periodic detention sentence at index contact? (pencode 4); (0 =no, 1 = yes)
index_ico	Given an intensive correction order at index contact? (pencode 5); (0 = no,1 = yes)
index_ss	Given a suspended sentence at index contact? (pencode 6, 7, 8, 9); (0 =no, 1 = yes)
index_sss	Given a supervised suspended sentence at index contact? (pencode 6, 8);(0 = no, 1 = yes)
index_cso	Given a community service order at index contact? (pencode 10, 11); (0 =no, 1 = yes)
index_bond	Given a bond at index contact? (pencode 12, 13, 14, 15, 19, 20); (0 = no,1 = yes)

index_sbond	Given a supervised bond at index contact? (pencode 12, 14, 19); (0 = no,1 = yes)
index_fine	Given a fine at index contact? (pencode 18); (0 = no, 1 = yes)
index_caution	Given a caution at index contact (pencode 21); (0 = no, 1 = yes)
index_bondnc	Given a bond without conviction at index contact (pencode 23); (0 = no, 1 = yes)
index_noconvict	Given 'no conviction recorded' at index contact (pencode 24); (0 = no, 1 = yes)
index_licdis	Driver licence disqualification at index contact? (pencode 25); (0 = no, 1 = yes)
lsir_date	Date of LSI-R assessment
lsir_riskcat	LSI-R risk category: low, low-medium, medium, medium-high, high
lsir_score	LSI-R score, from 0 to 54
lsir_dom1	LSI-R domain 1 - Criminal history (0-10)
lsir_dom2	LSI-R domain 2 - Education/ employment (0-10)
lsir_dom3	LSI-R domain 3 - Financial (0-2)
lsir_dom4	LSI-R domain 4 - Family/ marital (0-4)
lsir_dom5	LSI-R domain 5 - Accommodation (0-3)
lsir_dom6	LSI-R domain 6 - Leisure/ recreation (0-2)
lsir_dom7	LSI-R domain 7 - Companions (0-4)
lsir_dom8	LSI-R domain 8 - Alcohol/ drugs (0-9)
lsir_dom9	LSI-R domain 9 - Emotional/ personal (0-5)
lsir_dom10	LSI-R domain 10 - Attitudes/ orientation (0-4)
agefirst	Age (in years) at first known caution, conference or court appearance
nprior_court	Number of finalised court appearances (with proven offence/s) as a juvenile or adult prior to the index appearance.
nprior_jcourt	Number of finalised Children's Court appearances (with proven offence/s) prior to the index appearance.
nprior_conf	Number of previous youth justice conferences
nprior_caut	Number of cautions prior to the index appearance
nprior_cancaut	Number of cannabis cautions prior to the index appearance
nprior1_court	Number of finalised court appearances (with proven offence/s) as a juvenile or adult in the 1 year prior to the index appearance
nprior1_jcourt	Number of finalised Children's Court appearances (with proven offence/s) in the 1 year prior to the index appearance
nprior1_conf	Number of youth justice conferences in the 1 year prior to the index appearance
nprior1_caut	Number of cautions in the 1 year prior to the index appearance
nprior1_cancaut	Number of cannabis cautions in the 1 year prior to the index appearance
nprior5_court	Number of finalised court appearances (with proven offence/s) as a juvenile or adult in the 5 years prior to the index appearance
nprior5_jcourt	Number of finalised Children's Court appearances (with proven offence/s) in the 5 years prior to the index appearance
nprior5_conf	Number of youth justice conferences in the 5 years prior to the index appearance

nprior5_caut	Number of cautions in the 5 years prior to the index appearance
nprior5_cancaut	Number of cannabis cautions in the 5 years prior to the index appearance
nprior_pris	Number of previous known finalised court appearances at which given a full-time prison sentence/custodial order (pencode 1, 2)
nprior5_pris	Number of finalised court appearances within 5 years of the index appearance at which given a full-time prison sentence/custodial order (pencode 1, 2)
nprior5_hd	Number of finalised court appearances within 5 years of the index appearance at which given a sentence of home detention (pencode 3)
nprior5_pd	Number of finalised court appearances within 5 years of the index appearance at which given a periodic detention sentence (pencode 4)
nprior5_ico	Number of finalised court appearances within 5 years of the index appearance at which given an intensive correction order (pencode 5)
nprior5_ss	Number of finalised court appearances within 5 years of the index appearance at which given a suspended sentence (pencode 6, 7, 8 ,9)
nprior5_sss	Number of finalised court appearances within 5 years of the index appearance at which given a supervised suspended sentence (pencode 6, 8)
nprior5_cso	Number of finalised court appearances within 5 years of the index appearance at which given a community service order (pencode 10, 11)
nprior5_bond	Number of finalised court appearances within 5 years of the index appearance at which given a bond (pencode 12, 13, 14, 15, 19, 20)
nprior5_sbond	Number of finalised court appearances within 5 years of the index appearance at which given a supervised bond (pencode 12, 14, 19)
nprior5_fine	Number of finalised court appearances within 5 years of the index appearance at which given a fine (pencode 18)
nprior5_caution	Number of finalised court appearances within 5 years of the index appearance at which dismissed with caution (juvenile) (pencode 21)
nprior5_bondnc	Number of finalised court appearances within 5 years of the index appearance at which given a bond without conviction (pencode 23)
nprior5_noconvict	Number of finalised court appearances within 5 years of the index appearance at which no conviction was recorded (pencode 24)
nprior5_licdis	Number of finalised court appearances within 5 years of the index appearance at which given a driver licence disqualification (pencode 25)
nprior5_hom	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven homicide or a related offence (ANZSOC 01)
nprior5_actsinj	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven act intended to cause injury (ANZSOC 02)
nprior5_assault	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven assault (ANZSOC 021)

nprior5_serassault	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven assault (ANZSOC 0211, 0212)
nprior5_sexassrel	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven sexual assault or related offence (ANZSOC 03)
nprior5_sexassault	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven sexual assault (ANZSOC 031)
nprior5_dangneg	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which convicted of dangerous or negligent act endangering persons (ANZSOC 04)
nprior5_abdhar	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven abduction, harassment, or other offences against the person (ANZSOC 05)
nprior5_robrel	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven robbery or related offences (ANZSOC 06)
nprior5_rob	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven robbery offence (ANZSOC 061)
nprior5_brent	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven break and enter offence (ANZSOC 07)
nprior5_theft	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven theft offence (ANZSOC 08)
nprior5_fraud	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven fraud offence (ANZSOC 09)
nprior5_drug	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven drug offence (ANZSOC 10)
nprior5_weap	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven weapons offence (ANZSOC 11)
nprior5_propdam	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven property damage offence (ANZSOC 12)
nprior5_pubord	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven public order offence (ANZSOC 13)
nprior5_traff	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven traffic offence (ANZSOC 14)
nprior5_drive	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which a proven offence of driving while licence disqualified or suspended (ANZSOC 1411)
nprior5_pca	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven PCA offence (ANZSOC 0411,1431)
nprior5_just	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven offence against justice procedures (ANZSOC 15)
nprior5_brcust	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance with breach of a custodial order (ANZSOC 151)

nprior5_brcomm	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance with breach of a community order (ANZSOC 152)
nprior5_brviol	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance with breach of a violence order (ANZSOC 153)
nprior5_viol	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven violent offence (ANZSOC 01, 02, 03 or 06)
nprior5_prop	Number of YJCs/ finalised court appearances in the 5 years prior to the index appearance at which any proven property offence (ANZSOC 07, 08 or 09)
reoff1offdate	Date of first re-offence (proven) after index contact (i.e., based on earliest offdate), finalised within a certain timeframe/ by a specified date. Blank if no re-offence finalised within specified timeframe.
reoff1findate	Date of finalisation relating to first re-offence (proven) after index contact
reoff1jd	Jurisdiction where first re-offence after index contact was finalised (C =Children's Court, L = Local Court, D = District Court, S = Supreme Court,R = Drug Court, Y = conference, P = police caution, A = cannabis caution)
reoff1anzsoc	ANZSOC of first re-offence (proven) after index contact; if more than 1 on same day then take the most serious according to penalty and median sentence ranking
reoff1pen	Penalty code of penalty relating to the first re-offence (if finalised in court) (most serious penalty if more than 1 re-offence on the same day)
reoffncaution	Number of offences within 24 months after the index contact that were dealt with by way of caution
reoffncancaut	Number of offences within 24 months after the index contact that were dealt with by way of cannabis caution
reoffnconf	Number of offences within 24 months after the index contact that were dealt with by YJC
reoffncourt	Number of offences within 24 months after thde index contact that were finalised in court
findate1	Date of first subsequent finalisation (caution, cannabis caution, YJC, court) after index contact for a proven offence (regardless of whether offence took place before or after index contact)
findate1jd	Jurisdiction where first subsequent finalisation after index contact was finalised (C = Children's Court, L = Local Court, D = District Court, S = Supreme Court, R = Drug Court, Y = conference, P = police caution, A = cannabis caution)
findate1pen	Principal penalty of first subsequent finalisation for a proven offence after index contact (if finalised in court)
custstartindex	For those given a penalty of imprisonment/control order, start date of first custodial episode including/commencing at index contact (where custodial episode >1 day)
custendindex	For those given a penalty of imprisonment/control order, end date of first custodial episode including/commencing at index contact (where custodial episode >1 day)
custstartn	Start date of new/next custodial episode commencing after index contact (where custodial episode >1 day)
custendn	End date of new/next custodial episode commencing after index contact (where custodial episode >1 day)
findate1all	Date of first subsequent finalisation (caution, cannabis caution, YJC, court) after index contact for a proven offence (regardless of whether offence took place before or after index, and including offences in custody, breaches and offences after cutoff)
reoff1flag	Flag for first re-offence (=1 if first re-offence occurred prior to end of follow-up period; else 0)
reoff1code	Code to indicate the date used to calculate reoff1freetime: 1 if date of first re-offence; else 2 if date of death (i.e., no re-offence before then); else 3 if end of follow-up period (i.e., no re-offence before then)

reoff1xflag	Flag for first re-offence (=1 if first re-offence date prior to (or equal to) earliest of next contact/finalised court appearance (with proven offence), start date of subsequent custodial episode, death or end of follow-up period; else 0)
reoff1xcode	Code to indicate the date used to calculate reoff1xfreetime: 1 if date of first re-offence; else 2 if start date of a custodial episode; else 3 if date of a court appearance for a previous offence; else 4 if date of death; else 5 if end of follow-up period
reoff1freetime	Free time from index contact to date of first re-offence (proven), death, or end of follow-up period, whichever comes first.
reoff1xfreetime	Free time from index contact to date of first re-offence (proven), next finalised court appearance/contact, start date of subsequent custodial episode, death, or end of follow-up period, whichever comes first.
freetime	Free time within 24 months from index contact (as per previous variables counting number of contacts)
FinalisationYear	Calendar year the charges were finalised
JudicialOfficerCodeJL	Judicial Officer Code from JL

The following variables are the referral data provided by CRES

referral_date	date referred to assessment for home detention (EM)
court_event_date	court case finalization date
mspdi	ROD person identifier (provided by BOCSAR)

C. Software

All data cleaning and construction as well as analysis was carried out using stata version 15.

D. Data

The data employed in this study were obtained from the New South Wales Bureau of Crime Statistics and Research (BOCSAR), who are responsible for the Reoffending Database (ROD).

Note that an exemption from posting the data has been provided by the journal. Requests for access to ROD should be addressed to "BOCSAR Information Service" at bcsr@justice.nsw.gov.au. A list of the variables that can be extracted from ROD (a subset of which were employed in this study) can be found here: https://www.bocsar.nsw.gov.au/Documents/guidelines_and_form_to_access_unitrecord_reoffending_data.doc