CovNetps First Wave

[Introduction: This document includes the questionnaire and serve as a codebook for using the data. After the number of each question, the name in the first bracket is the variable name. How the answers are coded is denoted by red numbers in the bracket following each item. For detail, visit our website at www.cov-netps.com/home]

Part I. Personal information.

Cross-wave personal identifying number. [egoid] is the personal identifying number that is unique to each respondent and remains the same for all waves.

S1. [Concent] Since the study has a follow-up survey, we hope to invite you to fill out a short follow-up questionnaire again after the school reopens, so we want you to leave your contact information so that we can reach out to you again. For each valid questionnaire, you will be provided with 5 RMB to thank you for your time. Please let us know your contact information and you can read the informed consent form in the link below to represent your agreement and consent to participate in this study :[Choose only one]*

○ I agree to participate in the study, please leave Wechat [1]

○ I agree to participate in the study, please leave QQ [2]

○ I agree to participate in the study, please leave email [3]

○ I do not agree to participate in the study and withdraw (jump to question 45) [0]

S2. Your contact information is [in addition, the questionnaire will take about 13 minutes to complete, you can withdraw from the next time to continue to fill in][fill in the blanks]*

_____

Note: Answers not provided due to privacy concerns.

S3. [Province]Please select the province where your current (recent) school is located (municipality directly under the Central Government, autonomous region, special zone, etc .):[Choose only one]*

Note: COVNETPS-WUHAN only contains sample whose school is located in Hubei.

○Beijing

○ Tianjin

○ Shanghai

- ○ Chongqing
- ○ Shanxi Province (Jin)
- ○ Liaoning Province (Liao)
- ○ Jilin Province (Ji)
- ○ Heilongjiang Province (Black)
- ○ Jiangsu Province (Su)
- ○ Zhejiang Province (Zhejiang)
- ○ Anhui Province (Anhui)
- ○ Fujian Province (Fujian)
- ○ Jiangxi Province (Jiangxi)
- ○ Shandong Province (Lu)
- ○ Henan Province (Henan)
- ○ Hubei Province (E) [17]
- ○ Hunan Province (Hunan)
- ○ Guangdong Province (Guangdong)
- ○ Hainan Province (Qiong)
- ○ Sichuan (Sichuan)
- ○ Guizhou Province (Guizhou)
- ○ Yunnan Province (Yunnan)
- ○ Shaanxi Province (Shaanxi)
- ○ Gansu Province (Gansu)
- ○ Qinghai Province (Qing)
- ○ Guangxi Zhuang Autonomous Region
- ○ Inner Mongolia Autonomous Region
- ○ Tibet Autonomous Region

○ Ningxia Hui Autonomous Region

○ Xinjiang Uygur Autonomous Region

○ Hong Kong Special Administrative Region

○ Macao Special Administrative Region

○ Taiwan

○ overseas

S4. [Sch_Status] Your school currently belongs to [Choose only one]*

○ online teaching/not allowed to return to school [1]

○ haven't been suspended [2]

○ have returned to school [3]

S5. [collegetype] Is your school located in Wuhan? If yes, please select the school name [Choose only one]*

Due to privacy concerns, this item is reported as "collegetype" rather than individual schools. This variable categorizes schools into the five-tier system, which is coded as 1 (985 Project schools), 2 (211 Plan schools), 3 (Type-A Bachelor-degree-granting institutions), 4 (Type-B Bachelor-degree-granting institutions), 5 (vocational college and others). The former is more prestigious than the latter ones.

○1 My school is not in Wuhan

○2 Wuhan University

○3 Huazhong University of Science and Technology

○4 Wuhan University of Science and Technology

○5 Wuhan University of Engineering

○6 China University of Geosciences (Wuhan)

○7 Wuhan Textile University

○8 Wuhan University of Light Industry

○9 Wuhan University of Technology

○10 Hubei University of Technology

○11 Huazhong Agricultural University

○12 Hubei University of Traditional Chinese Medicine

○13 Central China Normal University

○14 Hubei University

○15 Zhongnan University of Finance, Economics and Law

○16 Wuhan Institute of Physical Education

○17 Hubei Academy of Fine Arts

○18 Central South University for Nationalities

○19 Jianghan University

○20 Hubei Police Academy

○21 Wuhan Conservatory of Music

○22 Hubei Institute of Economics

○23 Wuhan Business School

○24 Hubei Second Normal University

○25 Wuhan Vocational and Technical College

○26 Changjiang Vocational College

○27 Wuhan City Vocational College

○28 Wuhan Marine Vocational and Technical College

○29 Wuhan Engineering Vocational and Technical College

○30 Hubei Light Industry Vocational and Technical College

○31 Hubei Traffic Vocational and Technical College

○32 Wuhan Maritime Vocational and Technical College

○33 Wuhan Railway Vocational and Technical College

○34 Wuhan Software Engineering Vocational College

○35 Wuhan Electric Power Vocational and Technical College

○36 Hubei Water Conservancy and Hydropower Vocational and Technical College

○37 Hubei City Construction Vocational and Technical College

○38 Wuhan Police Vocational College

○39 Hubei Biotechnology Vocational College

○40 Hubei Vocational College of Art

○41 Wuhan Traffic Vocational College

○42 Changjiang Engineering Vocational and Technical College

○43 Wuhan Industrial Vocational and Technical College

○44 Wuhan Civil Affairs Vocational College

○45 Hubei Vocational College of Finance and Taxation

○46 Hubei Vocational College of Land and Resources

○47 Hubei Ecological Engineering Vocational and Technical College

○48 Hubei Vocational College of Science and Technology

○49 Hubei Youth Vocational College

○50 Hubei Sports Vocational College

○51 Hubei Preschool Teachers College

○52 Hubei Railway Transport Vocational College

○53 Wuhan Maritime Vocational College

○54 Wuhan Railway Bridge Vocational College

○55 Other

○56 Non- tertiary institutions (e.g. Primary and secondary schools)

In the first part below, the researchers want to know some of your basic background, which will not appear in the questionnaire after the epidemic.

A1. [birth]Your year of birth is [Choose only one]*

○1985[1]

○1986[2]

- ○1987[3]
- ○1988[4]
- ○1989[5]
- ○1990[6]
- ○1991[7]
- ○1992[8]
- ○1993[9]
- ○1994[10]
- ○1995[11]
- ○1996[12]
- ○1997[13]
- ○1998[14]
- ○1999[15]
- ○2000[16]
- ○2001[17]
- ○2002[18]
- ○2003[19]
- ○2004[20]
- ○2005[21]
- ○2006[22]
- ○2007[23]
- ○2008[24]
- ○2009[25]
- ○2010[26]
- ○2011[27]

○2012[28]

○2013[29]

○2014[30]

○2015[31]

○ Other[32]

A2. [edu]Your current education level belongs to [Choose only one]*

○ elementary school [1]

○ junior high school [2]

○ freshman/sophomore/ junior in high school [3]

○ senior in high school [4]

○ freshman/sophomore/ junior in college[5]

○ senior in college[6]

○ graduate students and above [7]

○ gap year [8]

○ Other [9]

A3. [gender1] Your gender [Choose only one]*

○ male[1]

○ female[2]

○ Other[3]

A4.[single1] Are you single [Choose only one]*

○ yes[1]

○ no[2]

○ Other[3]

A5.[quarantine1] Do you know anyone who was isolated for this outbreak?[Choose only one]*

○ no[1]

○ yes[2]

A5.1. [diagnose] Do you have any friends or relatives to diagnose a new coronavirus infection?[Choose only one]*

○ no / haven't heard[1]

○ yes[2]

A6. [sibling1] Do you have any brothers and sisters (including half-brothers and half-sisters)?[Choose only one]*

○ no[1]

○ yes[2]

A6. 1. [bigbro_num] [littbro_num] [bigsis_num] [littsis_num]How many siblings do you have (can write 0-10)? ___ olderbrother ___ youngerbrother ___ oldersister ___ youngersister [fill in the blanks]*

A7. [sss]In our society, some people are in the upper class, some in the lower class. "1" stands for the bottom ,"10" stands for the top. What rank do you think you are currently at?[Choose only one]*

○1 Bottom ○2 ○3 ○4 ○5 ○6 ○7 ○8 ○9 ○10 Top

A8. [exercise] How often have you exercised or participated in moderate physical activity (such as jogging, walking, fitness, playing ball, housework, etc.) For more than 30 minutes as one count during the past week?[Choose only one]*

○ almost never[1]

○ once or twice[2]

○ two or three times[3]

○ four or five[4]

○ almost every day[5]

A9. [drinking] In the past week, how often have you been drinking (like beer, red wine, or other alcoholic beverages)?[Choose only one]*

○ didn't drink[1]

○ once or twice[2]

○ two or three times[3]

○ four or five[4]

○ drink it almost every day[5]

A10. [smoked] Have you smoked recently?[Choose only one]*

○ no[1]

○ yes[2]

[province] [city] denotes the location of respondents based on IP address.

[date] is the date at the time of interview.

Part II. Health and well-being.

We are now at the second part, there are many studies that focus on health, and researchers want to know about your recent health condition.

H1. Combining all the factors, how satisfied have you been with the following in the past week?[Matrix questions]*

	Very Bad [1]	Bad [2]	Moderate [3]	Good [4]	Very Good [5]
1. Work/study [WS]	○	○	○	○	○
2. Family activities [fam_acti]	○	○	○	○	○
3. Interpersonal relationships [IR]	○	○	○	○	○
4. Family relations [fam_rela]	○	○	○	○	○
5. Leisure activities [LA]	○	○	○	○	○
6. Ability to operate normally in daily life [AON]	○	○	○	○	○
7. Overall well-being [OW]	○	○	○	○	○
In addition, do you think your health status belongs to? [HS]	○	○	○	○	○

H2. Please recall your situation in the past week. How many days will you feel the following conditions?[Matrix questions]*

	0 [1]	1 [2]	2 [3]	3 [4]	4 [5]	5 [6]	6 [7]	7 [8]
I feel sad [sad]	○	○	○	○	○	○	○	○
I feel frustrated even having family and friends to help [frustrated]	○	○	○	○	○	○	○	○
I feel depressed [depressed]	○	○	○	○	○	○	○	○
I find it hard to do everything [hardTOdo]	○	○	○	○	○	○	○	○
Male choose three, otherwise choose five [male]	○	○	○	○	○	○	○	○
I don't sleep well [sleep]	○	○	○	○	○	○	○	○
I feel happy [happy]	○	○	○	○	○	○	○	○
I can't concentrate on things [concentrate]	○	○	○	○	○	○	○	○
I live happily [live_happy]	○	○	○	○	○	○	○	○
I've been bothering things that I didn' t bother before [bothering]	○	○	○	○	○	○	○	○
I feel nervous, anxious or upset	○	○	○	○	○	○	○	○

about the pandemic [nervous]								
I can't stop or stop worrying about pandemic [worrying]	○	○	○	○	○	○	○	○
I feel lonely [loniness]	○	○	○	○	○	○	○	○

Part III. Social Networks.

The third part below is the core of our social network study. These questions help us understand your recent social interaction with others.

E1., please recall your situation in the past week. How many days have you participated in the following topics?[Matrix questions]*

	0 [1]	1 [2]	2 [3]	3 [4]	4 [5]	5 [6]	6 [7]	7 [8]
Visit relatives or friends (including home, dormitory, etc) [visitRF]	○	○	○	○	○	○	○	○
Go to a restaurant with family, relatives or friends [GoRest]	○	○	○	○	○	○	○	○
Hang out with family, relatives or friends for shopping, traveling, watching movies, watching exhibitions, playing sports, studying and etc [Hangout]	○	○	○	○	○	○	○	○
Chat very deeply online with relatives or friends (wechat, QQ, etc) [Chat]	○	○	○	○	○	○	○	○

E3. Please combine the recent situation, select the description that match your experience.[Matrix questions]*

	Hope to know more	Enough for now

	[1]	[2]
Do you sometimes want to meet more friends who can talk about personal affairs, or do you think there are enough people to chat? [MeetFrd]	○	○
Do you sometimes want to meet more people who can hang out, or do you think there are enough people for now? [MeetHangout]	○	○
Do you sometimes want to meet more people who will help you (such as borrowing some money, buying things when you are sick, etc.), or do you think there are enough friends to help you? [MeetHelp]	○	○

E4. [net_size] Think about who you typically do these sorts of things with, or other social things as well, such as going shopping, out for sports, studying together, chat, or people who are important to you (both online and offline). Who are these people? Please count —— How many people can you think of at this time?[Choose only one]*

○1

○2

○3

○4

○5

○6

○7

○8

○9 or more

N1. What are the names of the people you think of in the question above?[Multiple topics]*

You don't need to give a real name, and it is recommended that you write nicknames. Please start filling in the most recent intersection with your life, no more than 6 people.

□ name 1[name1]_____*

□ name 2[name2]_____*

□ name 3[name3]_____*

□ name 4[name4]_____*

□ name 5[name5]_____*

□ name 6[name6]_____*

You've recalled people you' ve been interacting with recently, or who are important to you. Next, researchers want to follow the approach of social network research and ask you questions about them.

N2. This question, the researcher wants to know the type of your relationship. Please select the following name for your relationship. [Matrix Multiple Topics]*

Note: Family includes parents, grandparents, siblings;
Relatives refer to relatives of non-parents, grandparents, brothers and sisters.
Social organizations include neighborhood communities, student associations, interest groups, voluntary activities, religious activities and so on.

	Family member [fam]	Relative [rela]	boyfriend/ girlfriend/spouse [bfgf]	Known through school [sch]	Known through Work/ Part-time Job [work]	Known through Social organization [social_organ]	Other relationships [other_rela]
Name 1	□	□	□	□	□	□	□
Name 2	□	□	□	□	□	□	□

N3. The researcher wants to know your relationship type, please select the following name with your relationship.[Matrix Multiple Topics]*

Note: living nearby means that you can reach the other person's residence within 10 minutes of walking, or you live together.

	Your recent contacts have been mainly online [online]	You have been met in the last week [meet_LW]	He/she usually lived around you last semester [live_around]	None of the above [noneN3]
Name 1	□	□	□	□
Name 2	□	□	□	□

N4. For your case with the following names, please select all statement applied separately.[Matrix Multiple Topics]*

Note: peers refer to those within +- 2 years of.

	He/she is your peer [peer]	Have the same gender [same_gender]	From the same province [same_province]	From the same college /department [same_college]	From the same school [same_sch]	Don't have the same social and political values [same_value]	Have the same hobby [same_hobby]	None of the above [noneN4]
Name 1	□	□	□	□	□	□	□	□
Name 2	□	□	□	□	□	□	□	□
Name 3	□	□	□	□	□	□	□	□

N5. For your relationship with the following statements, select all that apply.[Matrix Multiple Topics]*

Note: personal affairs refer to such as emotional relationships, important things, setbacks and so on; Substantive help refers to such as moving things, giving advice, helping with homework, shopping, sick care, etc.

	Exchange information about pandemic [exch_info]	Talking about sports, idols, games and other entertainment topics recently	Shared personal affairs with he/she [personal]	He/she has given you substantial help recently [help]	He/she has recently reproached or criticized you [reproached]	He/she upset you lately [upset]	I feel he/she demands too much lately [demands]	None of the above [noneN5]

		[entertainment]						
Name 1	□	□	□	□	□	□	□	□
Name 2	□	□	□	□	□	□	□	□
Name 3	□	□	□	□	□	□	□	□

N6. On average, your frequency of interacting with this person last week (both online and offline) is [matrix questions]* [frequency]

	Barely any [1]	At least once a week [2]	Two or three times a week [3]	Four or five times a week [4]	Almost every day [5]
Name 1	○	○	○	○	○
Name 2	○	○	○	○	○

N7. The last week on average, how much time do you spend chatting with the following people every day?[Matrix questions]* [chatting]

	Within 15 minutes [1]	About half an hour [2]	About an hour [3]	About two or three hours [4]	More than three hours [5]
Name 1	○	○	○	○	○
Name 2	○	○	○	○	○

N8. Do you feel familiar with the following people? Choose [matrix questions]* [familiar]

	Not familiar [1]	Familiar [2]	Very familiar [3]
Name 1	○	○	○
Name 2	○	○	○

N9. How close / intimate are you to the following? Choose [matrix questions]* [close]

	Not close	Close	Very close

	[1]	[2]	[3]
Name 1	○	○	○
Name 2	○	○	○

N10. How long have you known the following people?[Matrix questions]* [known]

	Less than 1 year [1]	1-3 years [2]	4-6 years [3]	7-9 years [4]	Over 10 years [5]
Name 1	○	○	○	○	○
Name 2	○	○	○	○	○

N11. Recall that before the outbreak of pandemic in 2019, your average weekly chat frequency with the following people (including online and offline) was [matrix scale questions]* [avn]

	Almost never [1]	At least once a week [2]	Two or three times a week [3]	Four or five times a week [4]	Almost every day [5]
Name 1	○	○	○	○	○
Name 2	○	○	○	○	○

N12. Looking back on 2019, before the epidemic happened, how often could you meet the following people?[Matrix questions]* [exfrien]

	Almost never [1]	Once a year or less [2]	Several times a year [3]	At least once a month [4]	At least once a week [5]	Almost every day [6]
Name 1	○	○	○	○	○	○
Name 2	○	○	○	○	○	○

T. Do those who you referred to know each other? According to the order of names that you have put in, we have labelled each name as name 1, name 2, name 3, and so on.... [Multiple topics]*

□ name 1 name 2 [n12]

□ name 1 know name 3 [n13]

□ name 1 know name 4 [n14]

□ name 1 name 5 [n15]

□ name 1 name 6 [n16]

□ name 2 name 3 [n23]

□ name 2 name 4 [n24]

□ name 2 name 5 [n25]

□ name 2 name 6 [n26]

□ name 3 name 4 [n34]

□ name 3 name 5 [n35]

□ name 3 name 6 [n36]

□ name 4 name 5 [n45]

□ name 4 name 6 [n46]

□ name 5 name 6 [n56]

□ these people don't know each other *[noneT]*

Part IV. Miscellaneous.

In the last part, according to your answer above, we would like to ask you a few additional questions, thank you!

B1. Some people feel that they can completely control the development and direction of their own life, but some people think that what changes in life is not their own decision. So to what extent do you think you can control your life?[Choose only one]* [control]

○ I can mostly controlled my life by myself[1]

○ I can control a part of my life[2]

○ I hardly controlled my life[3]

B2. Read the following description of the pandemic for your current situation, select each description that best suit your experience [matrix questions]*

	Very disagreeable [1]	disagreeable[2]	Moderate [3]	Agreeable [4]	Very agreeable [5]
1. Now, I'm very likely to get infected of coronavirus [i_infected]	○	○	○	○	○
2. At present, coronavirus may infect many people, including my family, loved ones and friends [fam_infect]	○	○	○	○	○
3. Infection with coronavirus causes death quickly [death]	○	○	○	○	○
4. Many people would die from coronavirus pandemic [die]	○	○	○	○	○
5. At present, my family can buy enough daily	○	○	○	○	○

necessities, food and etc. [buy_enough]					
6. At present my family lack of masks, alcohol disinfectant and other epidemic prevention supplies [supplies]	○	○	○	○	○
7. I can get satisfactory treatment if I am ill at present [treatment]	○	○	○	○	○
8. If you are an only child, please choose very agreeable, otherwise you do not choose very agreeable [only_child]	○	○	○	○	○
9. The risk of an outbreak in my local community is low [low_risk]	○	○	○	○	○
If the neighbor is from Hubei, I will feel uncomfortable	○	○	○	○	○

[from_Hubei]					
If I know that my neighbor has returned from abroad, I would like to move away temporarily [from_abroad]	○	○	○	○	○
I often watch the news recently [watch_news]	○	○	○	○	○

B3. Researchers would like to know if you have been active in the following social organizations this month, or have you played an active role in the following activities?[Multiple topics]*

□ school associations or student unions [student_unions]

□ sports-related organizations (e.g. Fan organizations) [sport_organ]

□ professional organizations (e.g. Trade unions, study groups, etc) [prof_organ]

□ entertainment-related organizations (such as being fans) [enter_organ]

□ donations during the pandemic outbreak [donations]

□ voluntary service or social work activities (e.g. Volunteering in temperature testing, counselling service for children of medical workers) [voluntary]

□ have forwarded help-wanted information during the epidemic [forward_info]

□ religious groups and their activities [religious]

_____□ other social groups or activities [other]

□ none of the above activities [noneB3]

B4. The following are some sentences that describe content that may or may not be like you. Please measure to see how much each sentence describes you.[Matrix questions]*

	Very unlike me [1]	Unlike me [2]	Moderate [3]	Like me [4]	Very much like me

					[5]
I tend to help people who are really in trouble and need help [help_people]	○	○	○	○	○
I didn't donate money to benefit from it [donate_money]	○	○	○	○	○
When people are hungry and cold, I naturally help them [help_hungry]	○	○	○	○	○
I devote time and energy to volunteering, not to get the same amount of the reward [devote_time]	○	○	○	○	○
I tend to help people who are seriously injured or sick [help_injured]	○	○	○	○	○
I often help others, even if there is no benefit from it [help_others]	○	○	○	○	○
I help other and don't ask people to repay me for the same way in the future [no_repay]	○	○	○	○	○

B5. Do you think [matrix questions]*

	Very disagreeable [1]	Disagreeable [2]	Agreeable [3]	Very agreeable [4]
I was discriminated and excluded [discriminated]	○	○	○	○
Most people feel uncomfortable when people from Hubei or overseas come to China [uncomfortable]	○	○	○	○
Some of the people I've been talking to recently felt excluded [excluded]	○	○	○	○

B6. May I ask how much time you spend on your mobile phone on average every day in the last week (including study, chat, entertainment, etc)?[Choose only one]* [phone_time]

○ within 1 hour[1]

○ about 2-3 hours[2]

○ about 4-6 hours[3]

○ about 10-12 hours[4]

○ over 12 hours[5]

B7. Read the following description of coronavirus and select each description that match your experience [matrix questions]*

	Very disagree [1]	Disagree [2]	Not clear [3]	Agree [4]	Very agree [5]
1. Coronavirus survive up to 36 hours	○	○	○	○	○

outside the body [survive]					
2. Coronavirus may infect domestic pets [pets]	○	○	○	○	○
3. Coronavirus cannot be transmitted through the sewer [transmitted]	○	○	○	○	○
4. If I have symptoms of cough and fever, I may be infected with coronavirus [symptom]	○	○	○	○	○
5. If you don't have a fever, you won' t get coronavirus [fever]	○	○	○	○	○
6. Digestive diseases such as abdominal distension, diarrhea, must not be associated with coronavirus [diseases]	○	○	○	○	○
7. Drinking Radix Isatidis and Smoked Vinegar to Prevent Coronavirus	○	○	○	○	○

[drinking_smoked]					
8. People with coronavirus may heal themselves without any specific treatment [heal]	○	○	○	○	○
9. The cure for a coronavirus patient produces antibodies and doesn't got infected again [cure]	○	○	○	○	○

Z3. You can leave us your phone number, this is optional: [fill in the blanks]*

_____

Note: The weighting variable is “weight_adjusted”. This is the pweight (probability weight) calculated based on the college type of the students so that subsequent analysis shall resemble the actual distribution of the Wuhan college population in the five-tier system.