

# CoronaNet Wide Data Codebook

This codebook provides variable descriptions for the indicators that are released in our wide data files and also used in the construction of our indices (see Kubinec et al. 2021). By wide data, we mean that every row of this data represents one day of policy records for a given country and each column is a separate policy indicator. Some of these columns/variables are binary while others are ordinal or continuous, details provided below.

The first wide data release covers January 1st, 2020 to January 15th, 2021. Note that there are 201 countries in this released data, though only a subset of those are used in the indices due to relatively few policy records for some countries and also missing data for these countries in the Oxford COVID-19 Government Response Tracker which is used in index creation.

This data release is considered provisional and will be updated as we collect more data over time and add and recode existing policy records. In particular, it may be the case that some policies have ended or will end and we do not have those end dates up to date in the present release. If there are any issues with the data, please post them as issues on our Github page, [https://github.com/saudiwin/corona\\_tscs](https://github.com/saudiwin/corona_tscs).

The data are organized by index, and we also include the variable/column in our original, long dataset from which the indicators were created. The original/long dataset generally has more information about the actual policy records from which this data was created.

## School Restrictions Index

### Original CoronaNet variable: **type\_school**

**preschool.** Takes a value of 1 if no restrictions are placed on preschool or childcare facilities (generally for children ages 5 and below), a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**primary\_school.** Takes a value of 1 if no restrictions are placed on primary schools (generally for children ages 10 and below), a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**secondary\_school.** Takes a value of 1 if no restrictions are placed on secondary schools (generally for children ages 10 to 18), a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**higher\_ed.** Takes a value of 1 if no restrictions are placed on higher education institutions (i.e. degree granting institutions), a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

### **Original CoronaNet variable: type\_school\_var**

Conditions under which type\_school are allowed to operate.

**school\_clean.** Takes a value of 1 if regular cleaning and sanitary procedures are required as a condition of schools operating.

**school\_other.** Takes a value of 1 if other conditions are required as a condition of schools operating.

**school\_num.** Takes a value of 1 if the number of people on the school premises is limited as a condition of schools operating.

**school\_type\_pers.** Takes a value of 1 if the types of people on the school premises are limited as a condition of schools operating.

**school\_health\_q.** Takes a value of 1 if health questionnaires are required as a condition of schools operating.

**school\_special\_student.** Takes a value of 1 if special provisions exist for all students in a school (e.g. students in primary school do not have to social distance).

**school\_special\_teacher.** Takes a value of 1 if special provisions exist for how teaching is done (e.g. teachers must tele-teach).

**school\_temp.** Takes a value of 1 if temperature checks are required as a condition of schools operating.

**school\_health\_monitoring.** Takes a value of 1 if other health monitoring measures are required as a condition of schools operating.

## **Business Restrictions Index**

### **Original CoronaNet variable: type\_business**

**biz\_restrict\_all.** Takes a value of 1 if no restrictions are placed on all or unspecified businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_rest.** Takes a value of 1 if no restrictions are placed on restaurants and/or bars, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_comm.** Takes a value of 1 if no restrictions are placed on commercial businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_retail.** Takes a value of 1 if no restrictions are placed on retail businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_shop.** Takes a value of 1 if no restrictions are placed on shopping centers, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_groom.** Takes a value of 1 if no restrictions are placed on personal Grooming Businesses (e.g. hair salons), a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_other.** Takes a value of 1 if no restrictions are placed on other businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_grocery.** Takes a value of 1 if no restrictions are placed on supermarkets/grocery stores, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_telecom.** Takes a value of 1 if no restrictions are placed on telecommunications businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_info.** Takes a value of 1 if no restrictions are placed on information service activities, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_publish.** Takes a value of 1 if no restrictions are placed on publishing activities, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_construct.** Takes a value of 1 if no restrictions are placed on construction businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_farm.** Takes a value of 1 if no restrictions are placed on agriculture, forestry and fishing industries, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_transport.** Takes a value of 1 if no restrictions are placed on transportation (land, water and air), a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_hotel.** Takes a value of 1 if no restrictions are placed on paid lodgings (e.g. hotels, motels), a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_warehouse.** Takes a value of 1 if no restrictions are placed on warehousing and support activities for transportation, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_health.** Takes a value of 1 if no restrictions are placed on private health offices, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_pharmacy.** Takes a value of 1 if no restrictions are placed on pharmacies, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_water.** Takes a value of 1 if no restrictions are placed on water supply, sewerage, waste management and remediation activities, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_finance.** Takes a value of 1 if no restrictions are placed on financial service activities except insurance and pension funding, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_mining.** Takes a value of 1 if no restrictions are placed on mining and quarrying, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_restrict\_insurance.** Takes a value of 1 if no restrictions are placed on insurance; reinsurance, and pension funding except compulsory social security, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_takeout.** Takes a value of 1 if businesses are allowed to have take-out ordering.

**biz\_delivery.** Takes a value of 1 if businesses are allowed to have delivery ordering.

**biz\_nonessential.** Takes a value of 1 if no restrictions are placed on non-essential businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

**biz\_essential.** Takes a value of 1 if no restrictions are placed on essential businesses, a value of 2 if these facilities are partly open, and a value of 3 if they are completely closed.

## **Original CoronaNet variable: type\_business\_var**

conditions under which type\_business are allowed to operate

**biz\_hygiene.** Takes a value of 1 if hygiene and sanitation measures are required as a condition of business operating.

**biz\_hours.** Takes a value of 1 if the number of working hours is limited as a condition of business operating.

**biz\_work\_home.** Takes a value of 1 if the number of employees and working hours are limited as a condition of business operating.

**biz\_meeting.** Takes a value of 1 if the size of business meetings is limited as a condition of business operating.

**biz\_social\_distance.** Takes a value of 1 if keeping a distance of at least 6ft or 1.5 meters apart is required as a condition of business operating.

**biz\_mask.** Takes a value of 1 if mask wearing is required as a condition of business operating.

**biz\_temperature.** Takes a value of 1 if temperature checks are required as a condition of business operating.

**biz\_health\_cert.** Takes a value of 1 if health certificates are required as a condition of business operating.

**biz\_health\_q.** Takes a value of 1 if health questionnaires are required as a condition of business operating.

**biz\_num\_cust.** Takes a value of 1 if the number of customers is limited as a condition of business operating.

**biz\_store\_size.** Takes a value of 1 if the size of stores is limited as a condition of business operating.

**biz\_cont\_trace.** Takes a value of 1 if contact tracing is required as a condition of business operating.

**biz\_cond\_other.** Takes a value of 1 if other conditions are required as a condition of business operating.

# Health Resources Index

## Original CoronaNet variable: **type\_health resources**

**hr\_cold\_storage.** Takes a value of 1 if there is a policy which affects cold storage capacity for COVID-19 vaccines.

**hr\_doctors.** Takes a value of 1 if there is a policy which affects the number and allocation of doctors.

**hr\_dry\_ice.** Takes a value of 1 if there is a policy which affects dry ice for COVID-19 vaccine storage.

**hr\_sanitizer.** Takes a value of 1 if there is a policy which affects quantity and allocation of hand sanitizer.

**hr\_insurance.** Takes a value of 1 if there is a health testing policy which affects health insurances.

**hr\_facilities.** Takes a value of 1 if there is a health testing policy which affects health research facilities.

**hr\_volunteers.** Takes a value of 1 if there is a policy which affects quantity and allocation of health volunteers.

**hr\_hospitals.** Takes a value of 1 if there is a health testing policy which affects hospitals.

**hr\_masks.** Takes a value of 1 if there is a policy which affects quantity and allocation of face masks.

**hr\_drugs.** Takes a value of 1 if there is a policy which affects quantity and allocation of pharmaceutical drugs.

**hr\_nurses.** Takes a value of 1 if there is a policy which affects quantity and allocation of nurses.

**hr\_other\_infra.** Takes a value of 1 if there is a policy which affects “other” health infrastructure.

**hr\_other\_mat.** Takes a value of 1 if there is a policy which affects “other” health material.

**hr\_other\_staff.** Takes a value of 1 if there is a policy which affects “other” health staff.

**hr\_ppe.** Takes a value of 1 if there is a policy which affects quantity and allocation of personal protective equipment.

**hr\_testing.** Takes a value of 1 if there is a policy which affects public testing facilities.

**hr\_syringe.** Takes a value of 1 if there is a policy which affects quantity and allocation of syringes.

**hr\_quarantine.** Takes a value of 1 if there is a health testing policy which affects temporary quarantine centers.

**hr\_pcr.** Takes a value of 1 if there is a policy which affects quantity and allocation of thermal cyclers (PCR machines/DNA amplifiers).

**hr\_ventilator.** Takes a value of 1 if there is a policy which affects quantity and allocation of ventilators.

**hr\_test\_kit.** Takes a value of 1 if there is a policy which affects quantity and allocation of test kits.

**hr\_target\_staff.** Takes a value of 1 if the target of a policy is health staff.

**hr\_target\_supply.** Takes a value of 1 if the target of a policy is health-related supplies.

## Health Monitoring Index

### Original CoronaNet variable: **type\_health\_mon**

**hm\_home\_visit.** Takes a value of 1 if home visits are used to support the government's health monitoring strategy.

**hm\_other\_mon.** Takes a value of 1 if "other" human health monitoring strategy is used to monitor citizens' health status.

**hm\_telephone.** Takes a value of 1 if telephone calls are used to support the government's health monitoring strategy.

**hm\_loc\_nursing.** Takes a value of 1 if health monitoring takes place in nursing homes.

**hm\_loc\_other.** Takes a value of 1 if health monitoring takes place in "other" locations.

**hm\_loc\_subway.** Takes a value of 1 if health monitoring takes place in subways and trams.

**hm\_loc\_buses.** Takes a value of 1 if health monitoring takes place in buses.

**hm\_loc\_trains.** Takes a value of 1 if health monitoring takes place in trains.

**hm\_loc\_nursing.** Takes a value of 1 if health monitoring takes place in nursing homes.

**hm\_cert.** Takes a value of 1 if health certificates are used to monitor a person's health at a given point in time.

**hm\_q.** Takes a value of 1 health if questionnaires are used to monitor a person's health at a given point in time.

**hm\_snap\_other.** Takes a value of 1 if an "other" type of a snapshot is used to monitor a person's health at a given point in time.

**hm\_snap\_temp.** Takes a value of 1 if temperature checks are used to monitor a person's health at a given point in time.

**hm\_stra\_contact\_human.** Takes a value of 1 if contact tracing through human teams is used to monitor citizens' health status.

**hm\_stra\_contact\_phone.** Takes a value of 1 if contact tracing through smart phones (e.g. apps) is used to monitor citizens' health status.

**hm\_stra\_other.** Takes a value of 1 if "other" strategy is used to monitor citizens' health status.

**hm\_stra\_wearable.** Takes a value of 1 if wearable technology (e.g. bracelets, anklets, beacons) is used to monitor citizens' health status.

**hm\_tech\_bluetooth.** Takes a value of 1 if bluetooth is used to monitor citizens' health status.

**hm\_tech\_gps.** Takes a value of 1 if GPS is used to monitor citizens' health status.

**hm\_tech\_qr.** Takes a value of 1 if QR is used to monitor citizens' health status.

**hm\_tech\_other.** Takes a value of 1 if "other" technology is used to monitor citizens' health status.



## Health Testing Index

Note: the health testing indicators were merged into the Health Monitoring index.

### **Original CoronaNet variable: type\_health\_testing**

**ht\_door2door.** Takes a value of 1 if the government employed door-to-door testing.

**ht\_drivein.** Takes a value of 1 if the government employed drive-in testing.

**ht\_fixed.** Takes a value of 1 if the government employed fixed health testing stations.

**ht\_drivein.** Takes a value of 1 if the government employed drive-in testing.

**ht\_entire\_pop.** Takes a value of 1 if the government employed health testing of the entire population under the government's jurisdiction.

**ht\_mobile.** Takes a value of 1 if the government employed mobile health testing stations.

**ht\_other.** Takes a value of 1 if the government employed "other" health testings.

**ht\_type\_antibody.** Takes a value of 1 if the government employed antibody/serological tests.

**ht\_type\_antigen.** Takes a value of 1 if the government employed antigen tests.

**ht\_type\_other.** Takes a value of 1 if the government employed "other" test type.

**ht\_type\_pcr.** Takes a value of 1 if the government employed PCR tests.

**ht\_portal\_email.** Takes a value of 1 if email is used to inform people of their COVID-19 test results.

**ht\_portal\_sms.** Takes a value of 1 if mobile text is used to inform people of their COVID-19 test results.

**ht\_portal\_app.** Takes a value of 1 if an app or website is used to inform people of their COVID-19 test results.

**ht\_portal\_other.** Takes a value of 1 if "other" or not specified means of communication was used to inform people of their COVID-19 test results.

**ht\_portal\_paper.** Takes a value of 1 if paper results picked up in person are used to inform people of their COVID-19 test results.

**ht\_portal\_phone.** Takes a value of 1 if phone calls are used to inform people of their COVID-19 test results.

**ht\_cost\_free\_all.** Takes a value of 1 if testing on COVID-19 is free for all individuals.

**ht\_cost\_free\_subset.** Takes a value of 1 if testing on COVID-19 is free for a subset of the population.

**ht\_cost\_partly\_free.** Takes a value of 1 if testing on COVID-19 is partially subsidized by the government for all individuals.

**ht\_cost\_other.** Takes a value of 1 if there is no information provided regarding costs of COVID-19 testing.

**ht\_cost\_all\_pay.** Takes a value of 1 if all individuals must pay full cost of their COVID-19 test.

**ht\_cost\_symptomatic.** Takes a value of 1 if only symptomatic people are eligible for a test.

**ht\_loc\_clinic.** Takes a value of 1 if health clinics are used as health testing sites.

**ht\_loc\_private.** Takes a value of 1 if private doctors offices are used as health testing sites.

**ht\_loc\_hospital.** Takes a value of 1 if hospitals are used as health testing sites.

**ht\_loc\_other.** Takes a value of 1 if “other” location is used as a health testing site.

**ht\_loc\_pharmacy.** Takes a value of 1 if pharmacies are used as health testing sites.

## **Social Distancing Index**

### **Original CoronaNet variable: type\_social\_distancing**

**social\_distance.** Takes a value of 1 if there is a policy for keeping a distance of at least 6 feet or 1.5 meters apart.

**distance\_other.** Takes a value of 1 if there is a policy for keeping a distance of some other distance not listed above.

**buses.** Takes a value of 1 if there are restrictions on ridership of buses.

**other\_transport.** Takes a value of 1 if there are restrictions on ridership of other forms of public transportation.

**private\_transport.** Takes a value of 1 if there are restrictions on ridership private vehicles in public circulation.

**subways.** Takes a value of 1 if there are restrictions on ridership of subways and trams.

**trains.** Takes a value of 1 if there are restrictions on ridership of trains.

## **Original CoronaNet variable: type\_mass\_gatherings**

**curfew\_length.** Takes a value of 1-24 (hours).

**number\_mass.** Takes a value of 1 if there is the most stringent mass gathering restriction and 0 if there is no mass gathering restriction.

**cancel\_annual\_event.** Takes a value of 1 if there is a cancellation of a recreational or commercial event.

**prison\_pop.** Takes a value of 1 if there is a policy regarding reduction of prison population.

**postpone\_ann\_event.** Takes a value of 1 if there is a postponement of a recreational or commercial event.

**postpone\_rec\_event.** Takes a value of 1 if there is a postponement of an annually recurring event.

**private\_event.** Takes a value of 1 if events at private residencies are restricted.

**event\_no\_audience.** Takes a value of 1 if events are allowed to occur without an audience.

## **Border Restriction Index**

### **Original CoronaNet variable: travel\_mechanism**

**int\_restrict\_flights.** Takes a value of 1 if flights are restricted.

**int\_restrict\_border.** Takes a value of 1 if travel through land borders is restricted.

**int\_restrict\_all.** Takes a value of 1 if all kinds of transport across borders are restricted.

**int\_restrict\_NA.** Takes a value of 1 if the type of border restriction is not specified

**int\_restrict\_cruises.** Takes a value of 1 if cruise ships are restricted.

**int\_restrict\_ferries.** Takes a value of 1 if ferries are restricted.

**int\_restrict\_ports.** Takes a value of 1 if travel through seaports is restricted.

**int\_restrict\_trains.** Takes a value of 1 if trains are restricted.

**int\_restrict\_buses.** Takes a value of 1 if buses are restricted.

## Mask Index

### Variable group: type\_mask

**mask\_public.** Takes a value of 1 if there is a policy for wearing masks inside public buildings.

**mask\_everywhere.** Takes a value of 1 if there is a policy for wearing masks in all public spaces.

**mask\_business.** Takes a value of 1 if there is a policy for wearing masks inside private businesses (e.g. supermarkets).

**mask\_primary\_school.** Takes a value of 1 if there is a policy for wearing masks inside primary schools (generally for children ages 10 and below).

**mask\_sec\_school.** Takes a value of 1 if there is a policy for wearing masks inside secondary schools (generally for children ages 10 and to 18).

**mask\_transport.** Takes a value of 1 if there is a policy for wearing masks inside public transportation.

**mask\_unspec.** Takes a value of 1 if there is an unspecified mask wearing policy.

**mask\_preschool.** Takes a value of 1 if there is a policy for wearing masks inside preschools or childcare facilities(generally for children ages 5 and below).

**mask\_higher\_ed.** Takes a value of 1 if there is a policy for wearing masks inside higher education institutions (i.e. degree granting institutions).