

SNOMED Gold Standard COVID-19 Positive Case Coding List

This document describes the methods used to derive a COVID-19 Positive Case Coding List for use in the NHS Digital TRE.

The final list is included within the collaboration space 'covid19_activity_snomed_jc' where include_binary column is equal to 1.

Method:

- 1. Using all available SNOMED Codes related to COVID-19 available in in the GDPPR asset as the initial list**

The full list of codes we have available in the GDPPR asset are listed on the following webpage:

<https://digital.nhs.uk/coronavirus/gpes-data-for-pandemic-planning-and-research/guide-for-analysts-and-users-of-the-data#code-clusters-and-content>

For the Excel Spreadsheet: https://digital.nhs.uk/binaries/content/assets/website-assets/coronavirus/gpes-data-for-planning-and-research/gdppr_cluster_lookup_publication-draft.xlsm

For the Power BI Version:

<https://app.powerbi.com/view?r=eyJrljoiZTEwOTA1MjUtNjVhMi00NGRhLWFhZGQzMjc2MmU3OGIxiwidCI6IjUwZjYwNzFmLWJiZmUtNDAxYS04ODAzLTl3Mzc0OGU2MjllMlMlsmMiOjh9>

Briefly, there are 34,450 codes available within the GDPPR datasets (dependent on access, you may not be able to see all codes). Similar SNOMED codes are grouped together in code clusters and then above this in a hierarchy there is a wider cluster category.

There are over 460 clusters contained within the GDPPR extract and those clusters are grouped into 10 wider cluster categories.

There is a 'COVID-19 activity' category cluster which covers the COVID-19 Activity Code cluster and within this there are 209 SNOMED codes (specifically Concept IDs) related to COVID-19.

- 2. Subject this list to double review (including clinical review) for inclusion of codes to indicate positive COVID-19**

The complete set of COVID-19 SNOMED codes (n=209) were subject to a double review (including clinical review) process with 1/0s indicating inclusion for the positive COVID-19 case list. See Appendix Table A.1 column INCLUDE for the list of included codes. A '1' indicates include, a '2' indicates include but further investigation needed (for general COVID codes which didn't specifically state SARS-CoV-2 or COVID-19 but did indicate a coronavirus and also measurement of COVID-19 related codes) and '0' indicates exclude. 62/209 of the codes were considered for inclusion (20 '2's and 40 '1's)

3. For the codes with a '2' which are general COVID codes which do not specifically state SARS-CoV-2, along with a couple of other codes related to measurement of COVID-19, these were included in the initial extraction of records to see how commonly they were used 1st January 2020 onwards in the GDPPR data.

Of the general codes, only 3 were utilised in the GDPPR records 186747009 (6.88% of records), 84101006 (0.57% of records) and 713084008 (0.00% of records). 186747009 Coronavirus infection (disorder) was kept in the final list as it had the highest use but the other two were dropped for infrequent use.

The codes relating to measurement of COVID-19 were removed (1240461000000109 (1.48% of records) and 1240471000000102 (0.29% of records)), reasoning being that having the test (in other words measurement) would not necessarily make you a case and it is being used fairly infrequently.

The final list of codes is therefore included under the column 'COVID_19 Case Codes' indicated by a '1'. Appendix Table A.1 column 'COVID_19 Case Codes' indicates the final set of codes (where = 1).

Table 1: ConceptID codes which were assigned a '2' for further investigation before exclusion

CONCEPTID	CONCEPTID_DESCRIPTION
1240461000000109	Measurement of severe acute respiratory syndrome coronavirus 2 antibody (procedure)
1240471000000102	Measurement of severe acute respiratory syndrome coronavirus 2 antigen (procedure)
186747009	Coronavirus infection (disorder)
186758000	Coronavirus as the cause of diseases classified to other chapters (disorder)
187467005	[X]Coronavirus infection, unspecified (disorder)
187587009	Coronavirus as the cause of diseases classified to other chapters (disorder)
204351000000100	Coronavirus nucleic acid detection (procedure)
209531000000103	Coronavirus nucl acid detect
209541000000107	Coronavirus nucl acid detect
431711000000107	[X]Coronavirus infection, unspecified (disorder)
567531000000100	Coronavirus as the cause of diseases classified to other chapters (disorder)
709345005	Antigen of Human coronavirus (substance)
70986004	Human enteric coronavirus (organism)
713084008	Pneumonia caused by Human coronavirus (disorder)
720112004	Ribonucleic acid of Human coronavirus (substance)
817111000000102	Measurement of coronavirus ribonucleic acid by nucleic acid amplification test (procedure)
817221000000104	Determination of coronavirus genotype by ribonucleic acid analysis (procedure)
84101006	Human coronavirus (organism)
878171000000104	Exposure to coronavirus infection (event)
88711001	Coronavirus (living organism) (organism)

Table 2: The list of codes for the initial inclusion list with a '1' or '2' along with their count (number of times mentioned in GDPPR records) and the percentage use in records from January 1st 2020 onwards. Note: codes indicated with a '*' are '2's in the original list.

SNOMED CONCEPT ID	CODE COUNT	CONCEPTID_DESCRIPTION	PERCENT
1300721000000109	60500	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 confirmed by laboratory test (situation)	24.44
1240751000000100	57630	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 (disorder)	23.28
1240581000000104	49868	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid detected (finding)	20.15
1008541000000105	30767	Coronavirus ribonucleic acid detection assay (observable entity)	12.43
*186747009	17033	Coronavirus infection (disorder)	6.88
1300731000000106	6450	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 confirmed using clinical diagnostic criteria (situation)	2.61
1240511000000106	4180	Detection of severe acute respiratory syndrome coronavirus 2 using polymerase chain reaction technique (procedure)	1.69
1240551000000105	3665	Pneumonia caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1.48
*1240461000000109	3659	Measurement of severe acute respiratory syndrome coronavirus 2 antibody (procedure)	1.48
1240741000000103	2694	Severe acute respiratory syndrome coronavirus 2 serology (observable entity)	1.09
1300681000000102	2675	Assessment using coronavirus disease 19 severity scale (procedure)	1.08
1300631000000101	1816	Coronavirus disease 19 severity score (observable entity)	0.73
1321541000000108	1464	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G detected (finding)	0.59
*84101006	1401	Human coronavirus (organism)	0.57
1240541000000107	891	Infection of upper respiratory tract caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.36
*1240471000000102	708	Measurement of severe acute respiratory syndrome coronavirus 2 antigen (procedure)	0.29
1029481000000103	694	Coronavirus nucleic acid detection assay (observable entity)	0.28
1300671000000104	417	Coronavirus disease 19 severity scale (assessment scale)	0.17
1321551000000106	258	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M detected (finding)	0.10
1240401000000105	161	Antibody to severe acute respiratory syndrome coronavirus 2 (substance)	0.07
1240421000000101	111	Serotype severe acute respiratory syndrome coronavirus 2 (qualifier value)	0.04
1240571000000101	106	Gastroenteritis caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.04
1321331000000107	79	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 total immunoglobulin in serum (observable entity)	0.03
1321761000000103	66	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A detected (finding)	0.03
1322871000000109	64	Severe acute respiratory syndrome coronavirus 2 antibody detection result positive (finding)	0.03
1240391000000107	55	Antigen of severe acute respiratory syndrome coronavirus 2 (substance)	0.02
1240531000000103	34	Myocarditis caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.01
1321341000000103	23	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 immunoglobulin G in serum (observable entity)	0.01
1322781000000102	16	Severe acute respiratory syndrome coronavirus 2 antigen detection result positive (finding)	0.01
1240521000000100	13	Otitis media caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.01
1321321000000105	9	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G qualitative existence in specimen (observable entity)	0.00
1240561000000108	7	Encephalopathy caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.00
1321241000000105	4	Cardiomyopathy caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.00
1321301000000101	2	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid qualitative existence in specimen (observable entity)	0.00

1321311000000104	2	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M qualitative existence in specimen (observable entity)	0.00
1321201000000107	2	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 health issues simple reference set (foundation metadata concept)	0.00
1321191000000105	1	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 procedures simple reference set (foundation metadata concept)	0.00
*713084008	1	Pneumonia caused by Human coronavirus (disorder)	0.00
1321181000000108	1	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 record extraction simple reference set (foundation metadata concept)	0.00
120814005	1	Coronavirus antibody (substance)	0.00
1321351000000100	1	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 immunoglobulin M in serum (observable entity)	0.00

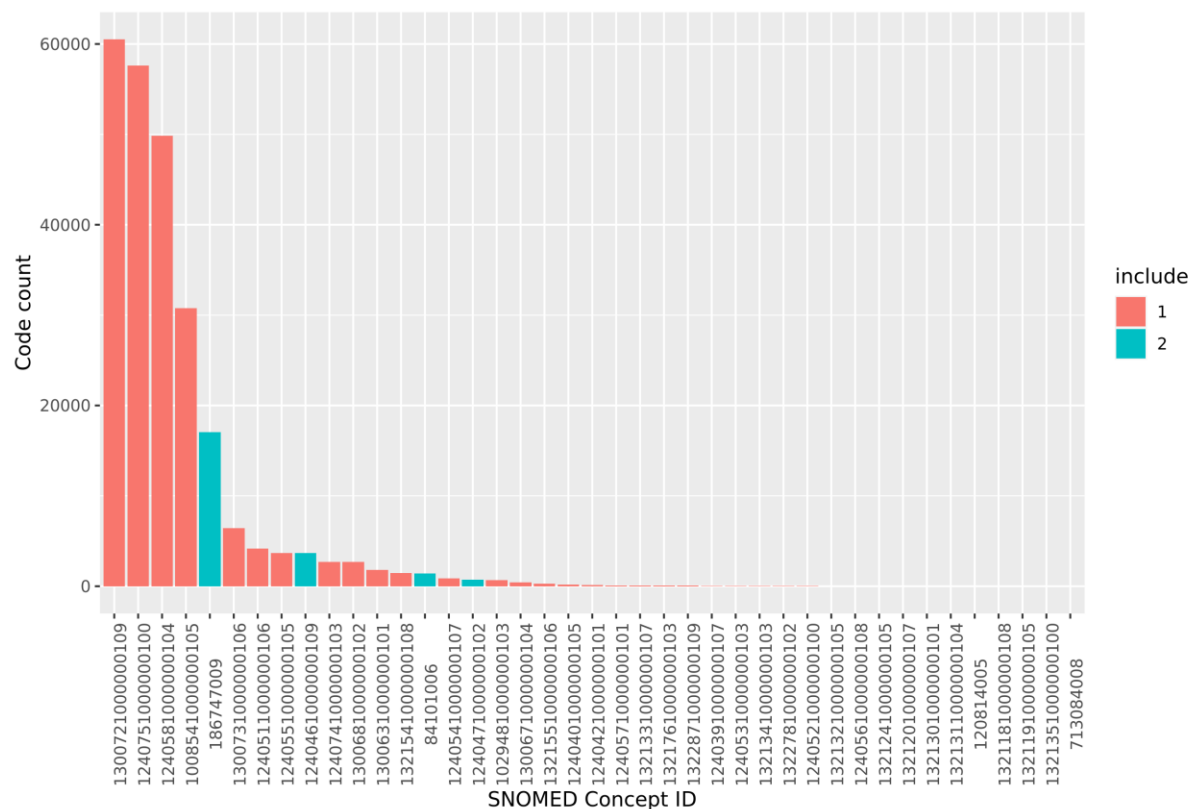


Figure 1: Code counts since January 2020 for the initial SNOMED Concept ID inclusion list. 1 = include, 2=further investigation needed.

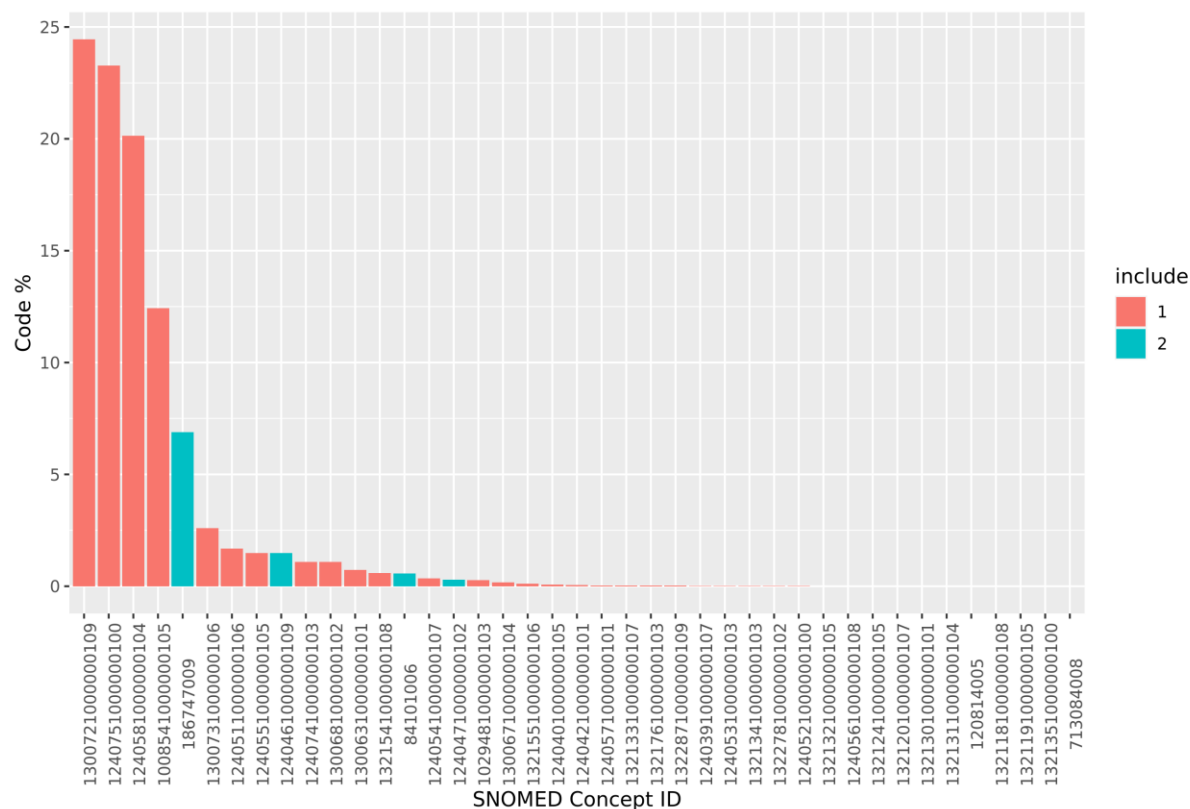


Figure 2: Percentage of SNOMED codes (denominator total for all the codes) since January 2020 for the initial SNOMED Concept ID inclusion list. 1 = include, 2=further investigation needed.

4. Final code list

The final codes for inclusion and percentage use out of total COVID records shown in Table 3, Figure 4 and 5 below.

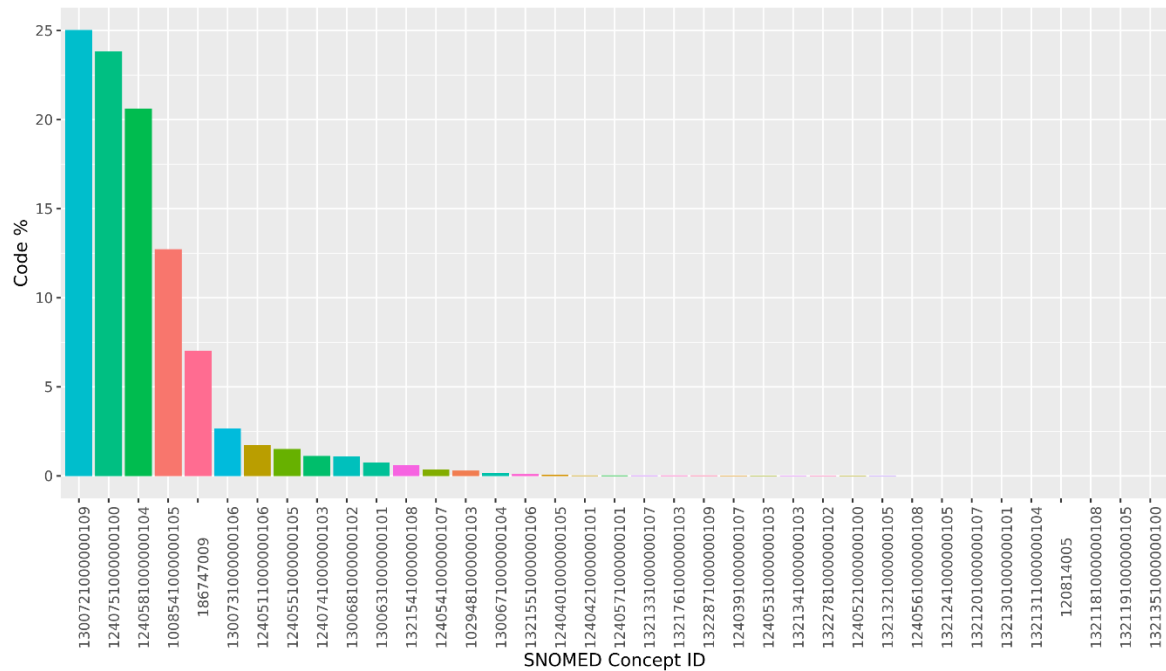


Figure 3: Percentage of SNOMED codes (denominator total for all the codes) since January 2020 for the final SNOMED Concept ID inclusion list.

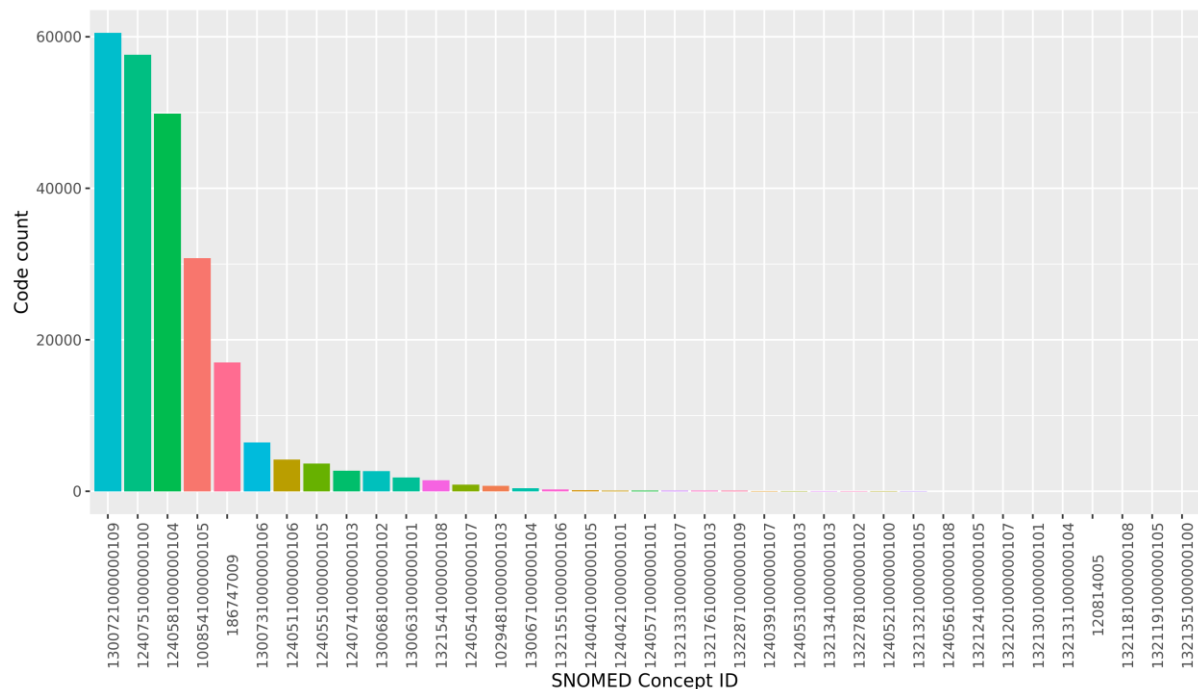


Figure 4: Code counts since January 2020 for the final SNOMED Concept ID inclusion list.

Table 3: Final COVID-19 Cases coding list along with percentage use (denominator total of all codes)

SNOMED CONCEPT ID	CODE COUNT	CONCEPTID_DESCRIPTION	PERCENT
1300721000000109	60500	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 confirmed by laboratory test (situation)	25.02
1240751000000100	57630	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 (disorder)	23.84
1240581000000104	49868	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid detected (finding)	20.63
1008541000000105	30767	Coronavirus ribonucleic acid detection assay (observable entity)	12.73
186747009	17033	Coronavirus infection (disorder)	7.05
1300731000000106	6450	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 confirmed using clinical diagnostic criteria (situation)	2.67
1240511000000106	4180	Detection of severe acute respiratory syndrome coronavirus 2 using polymerase chain reaction technique (procedure)	1.73
1240551000000105	3665	Pneumonia caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1.52
1240741000000103	2694	Severe acute respiratory syndrome coronavirus 2 serology (observable entity)	1.11
1300681000000102	2675	Assessment using coronavirus disease 19 severity scale (procedure)	1.11
1300631000000101	1816	Coronavirus disease 19 severity score (observable entity)	0.75
1321541000000108	1464	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G detected (finding)	0.61
1240541000000107	891	Infection of upper respiratory tract caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.37
1029481000000103	694	Coronavirus nucleic acid detection assay (observable entity)	0.29
1300671000000104	417	Coronavirus disease 19 severity scale (assessment scale)	0.17
1321551000000106	258	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M detected (finding)	0.11
1240401000000105	161	Antibody to severe acute respiratory syndrome coronavirus 2 (substance)	0.07
1240421000000101	111	Serotype severe acute respiratory syndrome coronavirus 2 (qualifier value)	0.05
1240571000000101	106	Gastroenteritis caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.04
1321331000000107	79	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 total immunoglobulin in serum (observable entity)	0.03
1321761000000103	66	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A detected (finding)	0.03
1322871000000109	64	Severe acute respiratory syndrome coronavirus 2 antibody detection result positive (finding)	0.03
1240391000000107	55	Antigen of severe acute respiratory syndrome coronavirus 2 (substance)	0.02
1240531000000103	34	Myocarditis caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.01
1321341000000103	23	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 immunoglobulin G in serum (observable entity)	0.01
1322781000000102	16	Severe acute respiratory syndrome coronavirus 2 antigen detection result positive (finding)	0.01
1240521000000100	13	Otitis media caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.01
1321321000000105	9	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G qualitative existence in specimen (observable entity)	0.00
1240561000000108	7	Encephalopathy caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.00
1321241000000105	4	Cardiomyopathy caused by severe acute respiratory syndrome coronavirus 2 (disorder)	0.00
1321201000000107	2	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 health issues simple reference set (foundation metadata concept)	0.00
1321301000000101	2	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid qualitative existence in specimen (observable entity)	0.00
1321311000000104	2	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M qualitative existence in specimen (observable entity)	0.00
120814005	1	Coronavirus antibody (substance)	0.00
1321181000000108	1	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 record extraction simple reference set (foundation metadata concept)	0.00
1321351000000100	1	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 immunoglobulin M in serum (observable entity)	0.00
1321191000000105	1	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 procedures simple reference set (foundation metadata concept)	0.00

The use of SNOMED codes by month to determine any changes in use over time are indicated in Figure 5 below.



Figure 5: Use of the final COVID-19 case list in records from January to August. The percentage is based on the denominator of codes used in records within that month.

Appendix

Table A.1: Full list of COVID-19 Activity Codes available within the GPPRR dataset on the TRE along with whether the code has been included for the COVID-19 Case Code list (COVID_19 CASE CODE column) and original inclusion decision (INCLUDE column). A '1' indicates include, a '2' indicates include but further investigation needed and '0' indicates exclude.

CONCEPTID	CONCEPTID_DESCRIPTION	INCLUDE	COVID_19 CASE CODES
1008541000000105	Coronavirus ribonucleic acid detection assay (observable entity)	1	1
1029481000000103	Coronavirus nucleic acid detection assay (observable entity)	1	1
120814005	Coronavirus antibody (substance)	1	1
121973000	Measurement of coronavirus antibody (procedure)	1	1
1240381000000105	Severe acute respiratory syndrome coronavirus 2 (organism)	1	1
1240391000000107	Antigen of severe acute respiratory syndrome coronavirus 2 (substance)	1	1
1240401000000105	Antibody to severe acute respiratory syndrome coronavirus 2 (substance)	1	1
1240411000000107	Ribonucleic acid of severe acute respiratory syndrome coronavirus 2 (substance)	1	1
1240421000000101	Serotype severe acute respiratory syndrome coronavirus 2 (qualifier value)	1	1
1240511000000106	Detection of severe acute respiratory syndrome coronavirus 2 using polymerase chain reaction technique (procedure)	1	1
1240521000000100	Otitis media caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1240531000000103	Myocarditis caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1240541000000107	Infection of upper respiratory tract caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1240551000000105	Pneumonia caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1240561000000108	Encephalopathy caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1240571000000101	Gastroenteritis caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1240581000000104	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid detected (finding)	1	1
1240741000000103	Severe acute respiratory syndrome coronavirus 2 serology (observable entity)	1	1
1240751000000100	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1300631000000101	Coronavirus disease 19 severity score (observable entity)	1	1

1300671000000104	Coronavirus disease 19 severity scale (assessment scale)	1	1
1300681000000102	Assessment using coronavirus disease 19 severity scale (procedure)	1	1
1300721000000109	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 confirmed by laboratory test (situation)	1	1
1300731000000106	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 confirmed using clinical diagnostic criteria (situation)	1	1
1321181000000108	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 record extraction simple reference set (foundation metadata concept)	1	1
1321191000000105	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 procedures simple reference set (foundation metadata concept)	1	1
1321201000000107	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 health issues simple reference set (foundation metadata concept)	1	1
1321211000000109	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 presenting complaints simple reference set (foundation metadata concept)	1	1
1321241000000105	Cardiomyopathy caused by severe acute respiratory syndrome coronavirus 2 (disorder)	1	1
1321301000000101	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid qualitative existence in specimen (observable entity)	1	1
1321311000000104	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M qualitative existence in specimen (observable entity)	1	1
1321321000000105	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G qualitative existence in specimen (observable entity)	1	1
1321331000000107	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 total immunoglobulin in serum (observable entity)	1	1
1321341000000103	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 immunoglobulin G in serum (observable entity)	1	1
1321351000000100	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 immunoglobulin M in serum (observable entity)	1	1
1321541000000108	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G detected (finding)	1	1
1321551000000106	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M detected (finding)	1	1
1321761000000103	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A detected (finding)	1	1
1321801000000108	Arbitrary concentration of severe acute respiratory syndrome coronavirus 2 immunoglobulin A in serum (observable entity)	1	1
1321811000000105	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A qualitative existence in specimen (observable entity)	1	1
1322781000000102	Severe acute respiratory syndrome coronavirus 2 antigen detection result positive (finding)	1	1
1322871000000109	Severe acute respiratory syndrome coronavirus 2 antibody detection result positive (finding)	1	1
186747009	Coronavirus infection (disorder)	2	1

1240431000000104	Exposure to severe acute respiratory syndrome coronavirus 2 infection (event)	0	0
1240441000000108	Close exposure to severe acute respiratory syndrome coronavirus 2 infection (event)	0	0
1240451000000106	Telephone consultation for suspected severe acute respiratory syndrome coronavirus 2 (procedure)	0	0
1240461000000109	Measurement of severe acute respiratory syndrome coronavirus 2 antibody (procedure)	2	0
1240471000000102	Measurement of severe acute respiratory syndrome coronavirus 2 antigen (procedure)	2	0
1240491000000103	Severe acute respiratory syndrome coronavirus 2 vaccination (procedure)	0	0
1240591000000102	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid not detected (finding)	0	0
1240601000000108	High priority for severe acute respiratory syndrome coronavirus 2 vaccination (finding)	0	0
1240631000000102	Did not attend severe acute respiratory syndrome coronavirus 2 vaccination (finding)	0	0
1240651000000109	Severe acute respiratory syndrome coronavirus 2 vaccination declined (situation)	0	0
1240661000000107	Severe acute respiratory syndrome coronavirus 2 vaccination contraindicated (situation)	0	0
1240671000000100	Severe acute respiratory syndrome coronavirus 2 vaccination not indicated (situation)	0	0
1240681000000103	Severe acute respiratory syndrome coronavirus 2 vaccination not done (situation)	0	0
1240701000000101	Severe acute respiratory syndrome coronavirus 2 vaccine not available (situation)	0	0
1240711000000104	Educated about severe acute respiratory syndrome coronavirus 2 infection (situation)	0	0
1240721000000105	Advice given about severe acute respiratory syndrome coronavirus 2 infection (situation)	0	0
1240731000000107	Advice given about severe acute respiratory syndrome coronavirus 2 by telephone (situation)	0	0
1240761000000102	Suspected coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 (situation)	0	0
1240781000000106	Severe acute respiratory syndrome coronavirus 2 vaccination invitation short message service text message sent (situation)	0	0
1320971000000102	Taking of swab for severe acute respiratory syndrome coronavirus 2 (procedure)	0	0
1321031000000105	Swab for severe acute respiratory syndrome coronavirus 2 taken by subject completed (situation)	0	0
1321041000000101	Swab for severe acute respiratory syndrome coronavirus 2 taken by subject offered (situation)	0	0
1321051000000103	Swab for severe acute respiratory syndrome coronavirus 2 taken by healthcare professional (situation)	0	0
1321061000000100	Signposting to National Health Service online isolation note service (procedure)	0	0
1321071000000107	Has National Health Service digital isolation note (finding)	0	0
1321081000000109	Self-isolation note issued to patient (finding)	0	0
1321091000000106	Household isolation note issued to patient (finding)	0	0
1321101000000103	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 excluded (situation)	0	0
1321111000000101	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 excluded by laboratory test (situation)	0	0

1321121000000107	Coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 excluded using clinical diagnostic criteria (situation)	0	0
1321131000000109	Self-isolation to prevent exposure of community to contagion (procedure)	0	0
1321141000000100	Reverse isolation of household to prevent exposure of uninfected subject to contagion (procedure)	0	0
1321151000000102	Reverse self-isolation of uninfected subject to prevent exposure to contagion (procedure)	0	0
1321161000000104	Household isolation to prevent exposure of community to contagion (procedure)	0	0
1321171000000106	Provision of advice, assessment or treatment limited due to coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 pandemic (situation)	0	0
1321221000000103	Consultation via video conference not available (situation)	0	0
1321231000000101	Signposting to coronavirus disease 19 Home Management Service (procedure)	0	0
1321271000000104	Swab specimen from oropharynx (specimen)	0	0
1321281000000102	Combined swab specimen from oropharynx and nasopharynx (specimen)	0	0
1321291000000100	Severe acute respiratory syndrome coronavirus 2 species detection test (procedure)	0	0
1321361000000102	Severe acute respiratory syndrome coronavirus 2 immunity status (observable entity)	0	0
1321461000000105	Newborn blood spot screening declined due to epidemic (situation)	0	0
1321471000000103	Newborn blood spot screening delayed due to epidemic (situation)	0	0
1321561000000109	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M not detected (finding)	0	0
1321571000000102	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G not detected (finding)	0	0
1321581000000100	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M detection result unknown (finding)	0	0
1321591000000103	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G detection result equivocal (finding)	0	0
1321621000000100	Severe acute respiratory syndrome coronavirus 2 immunity status equivocal (finding)	0	0
1321631000000103	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M detection result equivocal (finding)	0	0
1321641000000107	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G detection result unknown (finding)	0	0
1321651000000105	Severe acute respiratory syndrome coronavirus 2 immunity status unknown (finding)	0	0
1321661000000108	Has immunity to severe acute respiratory syndrome coronavirus 2 (finding)	0	0
1321681000000104	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid detection result equivocal (finding)	0	0
1321691000000102	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid detection result unknown (finding)	0	0
1321701000000102	Does not have immunity to severe acute respiratory syndrome coronavirus 2 (finding)	0	0
1321711000000100	Point of care severe acute respiratory syndrome coronavirus 2 species detection test (procedure)	0	0
1321721000000106	Central laboratory severe acute respiratory syndrome coronavirus 2 species detection test (procedure)	0	0
1321731000000108	Point of care measurement of severe acute respiratory syndrome coronavirus 2 antibody (procedure)	0	0
1321741000000104	Central laboratory measurement of severe acute respiratory syndrome coronavirus 2 antibody (procedure)	0	0

1321771000000105	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A detection result equivocal (finding)	0	0
1321781000000107	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A detection result unknown (finding)	0	0
1321791000000109	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A not detected (finding)	0	0
1321821000000104	Exposure to confirmed case of severe acute respiratory syndrome coronavirus 2 infection (event)	0	0
1321831000000102	Exposure to suspected case of severe acute respiratory syndrome coronavirus 2 infection (event)	0	0
1321841000000106	Peripheral blood oxygen saturation level on room air on exertion decreased (finding)	0	0
1321851000000109	Provision of advice, assessment or treatment delayed due to coronavirus disease 19 caused by severe acute respiratory syndrome coronavirus 2 pandemic (situation)	0	0
1321861000000107	Peripheral blood oxygen saturation level on supplemental oxygen on exertion decreased (finding)	0	0
1321871000000100	Peripheral blood oxygen saturation level on room air on exertion unchanged (finding)	0	0
1321881000000103	Peripheral blood oxygen saturation level on supplemental oxygen on exertion unchanged (finding)	0	0
1321911000000103	Assessment using 1-minute sit-to-stand test (procedure)	0	0
1321921000000109	1-minute sit-to-stand test score (observable entity)	0	0
1321941000000102	Assessment using 40-step test (procedure)	0	0
1321961000000101	40-step test score (observable entity)	0	0
1322001000000105	Recently performed a healthcare related procedure (event)	0	0
1322021000000101	Recently performed insertion of Guedel airway (event)	0	0
1322041000000108	Recently performed oxygen administration by mask with bag and valve (event)	0	0
1322111000000108	Recently performed oxygen administration by mask (event)	0	0
1322121000000102	Recently performed a bronchoscopy (event)	0	0
1322131000000100	Recently performed a gastroscopy with open suctioning of respiratory tract (event)	0	0
1322141000000109	Recently performed a post-mortem procedure (event)	0	0
1322151000000107	Recently performed administration of non-invasive ventilation (event)	0	0
1322181000000101	Recently performed administration of bi-level positive airway pressure ventilation (event)	0	0
1322191000000104	Recently performed an airway suctioning procedure (event)	0	0
1322201000000102	Recently performed a throat examination using tongue depressor (event)	0	0
1322211000000100	Recently performed a lung recruitment manoeuvre (event)	0	0
1322221000000106	Recently performed an induction of sputum procedure (event)	0	0
1322231000000108	Recently performed a dysphagia assessment (event)	0	0
1322241000000104	Recently performed chest compressions (event)	0	0
1322251000000101	Recently performed administration of continuous positive airway pressure ventilation (event)	0	0

1322261000000103	Recently performed administration of high frequency oscillatory ventilation (event)	0	0
1322271000000105	Recently performed administration of high-flow nasal cannula oxygen therapy (event)	0	0
1322301000000108	Recently performed a nasopharyngeal swab procedure (event)	0	0
1322311000000105	Recently performed insertion of nasogastric tube (event)	0	0
1322321000000104	Recently performed removal of nasal foreign body (event)	0	0
1322341000000106	Recently performed an incision of trachea (event)	0	0
1322351000000109	Recently performed an insertion of tracheostomy tube (event)	0	0
1322361000000107	Recently performed a removal of tracheostomy tube (event)	0	0
1322371000000100	Assessment using exertional desaturation test (procedure)	0	0
1322381000000103	Recently worked in a healthcare setting (event)	0	0
1322391000000101	Recently performed administration of pressurised humidified oxygen therapy (event)	0	0
1322401000000103	Recently performed a dental ultrasonic scaling procedure (event)	0	0
1322411000000101	Recently performed a respiratory physiotherapy procedure (event)	0	0
1322421000000107	Recently performed a change of tracheostomy tube (event)	0	0
1322431000000109	Recently performed an emergency tracheostomy (event)	0	0
1322441000000100	Recently performed administration of medication via nebuliser (event)	0	0
1322451000000102	Recently performed a dental sonic scaling procedure (event)	0	0
1322461000000104	Recently performed a dental air polishing procedure (event)	0	0
1322471000000106	Recently performed a dental scale and polish procedure (event)	0	0
1322481000000108	Recently performed administration of nitrous oxide and oxygen gas analgesia (event)	0	0
1322491000000105	Recently performed oxygen administration by non-rebreather mask (event)	0	0
1322501000000104	Recently performed a direct current defibrillation procedure (event)	0	0
1322511000000102	Recently performed a dental air-water syringing procedure (event)	0	0
1322521000000108	Recently performed a tooth preparation procedure using air turbine handpiece (event)	0	0
1322531000000105	Recently performed an endotracheal intubation (event)	0	0
1322541000000101	Recently performed an extubation of trachea (event)	0	0
1322551000000103	Recently performed a percutaneous tracheostomy (event)	0	0
1322561000000100	Recently performed a tooth preparation procedure using air abrasion (event)	0	0
1322571000000107	Recently worked in an intensive care setting (event)	0	0
1322581000000109	Recently worked in a hospital emergency care setting (event)	0	0
1322591000000106	Recently worked in an inpatient care setting (event)	0	0

1322601000000100	Recently worked in an ambulance service care setting (event)	0	0
1322611000000103	Recently performed administration of oxygen by Venturi mask (event)	0	0
1322621000000109	Recently worked in a primary care setting (event)	0	0
1322631000000106	Recently worked in a community social care setting (event)	0	0
1322641000000102	Recently worked in a residential care setting (event)	0	0
1322651000000104	Recently performed mobilisation with intent to cause cough (event)	0	0
1322661000000101	Recently performed a percutaneous dilational tracheostomy (event)	0	0
1322791000000100	Severe acute respiratory syndrome coronavirus 2 antigen detection result negative (finding)	0	0
1322801000000101	Severe acute respiratory syndrome coronavirus 2 antigen detection result indeterminate (finding)	0	0
1322821000000105	Severe acute respiratory syndrome coronavirus 2 antigen detection result unknown (finding)	0	0
1322831000000107	Severe acute respiratory syndrome coronavirus 2 immunoglobulin G detection result indeterminate (finding)	0	0
1322841000000103	Severe acute respiratory syndrome coronavirus 2 immunoglobulin A detection result indeterminate (finding)	0	0
1322851000000100	Severe acute respiratory syndrome coronavirus 2 immunoglobulin M detection result indeterminate (finding)	0	0
1322891000000108	Severe acute respiratory syndrome coronavirus 2 antibody detection result negative (finding)	0	0
1322901000000109	Severe acute respiratory syndrome coronavirus 2 antibody detection result indeterminate (finding)	0	0
1322911000000106	Severe acute respiratory syndrome coronavirus 2 antibody detection result unknown (finding)	0	0
186758000	Coronavirus as the cause of diseases classified to other chapters (disorder)	2	0
187467005	[X]Coronavirus infection, unspecified (disorder)	2	0
187587009	Coronavirus as the cause of diseases classified to other chapters (disorder)	2	0
204351000000100	Coronavirus nucleic acid detection (procedure)	2	0
209531000000103	Coronavirus nucl acid detect	2	0
209541000000107	Coronavirus nucl acid detect	2	0
243607003	Family Coronaviridae (organism)	0	0
243608008	Genus Coronavirus (organism)	0	0
27619001	Disease caused by Coronaviridae (disorder)	0	0
431711000000107	[X]Coronavirus infection, unspecified (disorder)	2	0
567531000000100	Coronavirus as the cause of diseases classified to other chapters (disorder)	2	0
700217006	Suspected coronavirus infection (situation)	0	0
702547000	Exposure to coronavirus infection (event)	0	0

709345005	Antigen of Human coronavirus (substance)	2	0
70986004	Human enteric coronavirus (organism)	2	0
713084008	Pneumonia caused by Human coronavirus (disorder)	2	0
720112004	Ribonucleic acid of Human coronavirus (substance)	2	0
817111000000102	Measurement of coronavirus ribonucleic acid by nucleic acid amplification test (procedure)	2	0
817221000000104	Determination of coronavirus genotype by ribonucleic acid analysis (procedure)	2	0
84101006	Human coronavirus (organism)	2	0
878151000000108	Suspected coronavirus infection (situation)	0	0
878171000000104	Exposure to coronavirus infection (event)	2	0
878181000000102	Coronavirus contact	0	0
88711001	Coronavirus (living organism) (organism)	2	0
890351000000103	Suspected coronavirus infection	0	0
90640007	Coronavirus vaccination (procedure)	0	0
906711000000107	Coronavirus nucleic acid detection assay (procedure)	0	0
906721000000101	Coronavirus nucleic acid detection assay	0	0
933791000000101	Coronavirus ribonucleic acid detection assay (procedure)	0	0
933801000000102	Coronavirus ribonucleic acid detection assay	0	0