



Feasibility counts for SARS-CoV-2-related codes in CPRD primary care data

December 2021

Background

CPRD primary databases

The Clinical Practice Research Datalink (CPRD) holds longitudinal primary care EHR on 62 million patients, with a median 10 year follow up. CPRD data cover 25% of the UK population (over 16 million patients) currently registered at a network of 1 in every 4 GP practices across the UK, who share patient data with CPRD on a daily basis. CPRD collects fully coded patient electronic health records from GP Practices using the Vision® or EMIS® software systems. Due to some differences in structure and clinical coding in these two systems, these data are provided as two separate primary care databases at present with accompanying metadata and advice to enable researchers to make study-specific decisions on how best to pool these data. CPRD GOLD contains data contributed by practices using Vision® software. CPRD Aurum contains routinely collected data from practices using EMIS Web® electronic patient record system software. Both research databases are updated monthly. The counts in this report are based on the December 2021 database builds of CPRD Aurum and CPRD GOLD.

Context

The novel coronavirus and disease that it causes (COVID-19) are an immediate focus for many research groups globally. CPRD primary care data are a potentially valuable resource to support this research. Feasibility counts to understand whether and how codes relating to SARS-CoV-2 are being recorded in primary care are the first step in establishing the research potential of CPRD data on this topic. The counts in this report should only be presented in the context of a feasibility count within a given data source and/or database (e.g. CPRD GOLD or CPRD Aurum). It would not be appropriate to present these in a publication as incidence or prevalence counts or to use these for surveillance purposes.

Summary counts – all SARS-CoV-2 related codes

The CPRD GOLD December 2021 build includes data from 20.7 M acceptable patients, of which 3.2 M are currently registered and acceptable. A total of 982 GP practices have contributed data to CPRD GOLD of which 409 are currently contributing practices.

The CPRD Aurum December 2021 build includes data from 40.6 M acceptable patients, of which 13.4 M are currently registered and acceptable. A total of 1,491 GP practices have contributed data to CPRD Aurum of which 1,366 are currently contributing practices.

The feasibility counts are based on a cohort of patients who have at least one relevant COVID-19 code in the period **02/12/2019 – 19/10/2021** and within their registration period. The patient registration period starts at the patient registration date with the practice and ends at the earliest of the patient transfer out date (de-registration), and the practice last collection date.

3,549,472 events related to SARS-CoV-2 were recorded in CPRD GOLD in the period 02/12/2019-19/10/2021. Each coded event is counted, irrespective of the distance between consecutive entries. These relate to **1,022,141** unique patients.

19,339,806 events related to SARS-CoV-2 were recorded in CPRD Aurum in the period 02/12/2019-19/10/2021. Each coded event is counted, irrespective of the distance between consecutive entries. These relate to **5,807,019** unique patients.

Table 1 presents numbers of unique events and patients stratified by gender.

	CPRD GOLD events	CPRD GOLD patients	CPRD Aurum events	CPRD Aurum patients
Male	1,291,530	455,301	7,005,898	2,646,998
Female	2,257,942	566,840	12,333,908	3,160,021

Table 2 presents numbers of unique events and patients stratified by age group. Age at event is calculated as the difference between the year of the event and the year of birth recorded in the CPRD primary care data.

	CPRD GOLD events	CPRD GOLD patients	CPRD Aurum events	CPRD Aurum patients
0-18	549,246	225,199	2,656,861	1,275,844
19-49	1,758,365	472,696	9,505,899	2,803,828
50-59	587,283	139,415	3,213,005	754,510
60-69	349,621	89,038	1,885,886	460,695
70-79	152,415	55,339	892,686	281,871
80+	152,542	40,454	1,185,469	230,271

Table 3 presents numbers of unique events and patients across the period stratified by practice nation.

	Number of currently contributing CPRD practices (n=1,775)	Regional coverage of CPRD practices	All events (CPRD GOLD + CPRD Aurum)	All patients (CPRD GOLD + CPRD Aurum)
England	1,385 (78.0%)	21.9	19,809,672	5,996,569
Northern Ireland	54 (3.0%)	18.0	30,484	18,022
Scotland	220 (12.4%)	23.5	1,880,103	468,612
Wales	116 (6.5%)	29.7	1,169,018	345,957

Table 4 presents numbers of unique events and the associated number of unique patients stratified by code type (see appendix 1). The number of patients provided is the number of unique patients within each stratification (code type). The same patient may therefore be present in two or more stratifications.

	CPRD GOLD events	CPRD GOLD patients	CPRD Aurum events	CPRD Aurum patients
Possible	50,607	41,010	458,842	268,104
Tested	3,360,702	946,233	14,170,188	4,637,983
Diagnosis	94,769	86,675	2,040,848	1,270,855
Advice	43,394	37,411	2,669,928	812,099

Notes:

- The code lists used (see appendix) include both emergency codes created in response to the novel coronavirus and more general coronavirus codes. Though there is a risk of misclassification with the more general codes, these are likely to have been used until the specific codes were made available.
- The CPRD patient data quality indicator, the ‘acceptable’ flag has not been applied. This allows the inclusion of temporary patients.
- The counts provided have been de-duplicated. Patients in practices that have migrated software system from Vision® to EMIS® have been excluded from the CPRD GOLD counts.
- Due to CPRD’s small cell policy, patient counts with fewer than 5 observations have been suppressed.

Appendix 1

CPRD GOLD SARS-CoV-2 code list

Please note terms indicated by * are missing in the code browser.

Medcode	Term	Read Code	Code Type
114771	2019-nCoV (novel coronavirus) RNA detected	4J3R100	Tested
114769	2019-nCoV (novel coronavirus) RNA not detected	4J3R200	Tested
114770	2019-nCoV (novel coronavirus) serology	4J3R.00	Tested
115516	Acute disease caused by SARS-CoV-2	A795400	Diagnosis
114760	Advice given about 2019-nCoV (novel coronavirus) by telephon	8CAO100	Advice
114754	Advice given about 2019-nCoV (novel coronavirus) infection	8CAO.00	Advice
114899	COVID-19 confirmed by laboratory test	A795200	Tested / Diagnosis
114934	COVID-19 confirmed using clinical diagnostic criteria	A795300	Diagnosis
114895	COVID-19 excluded by laboratory test	11P1.00	Tested
114945	COVID-19 severity score	38VO.00	Diagnosis
115069	Cent lab SARS-CoV-2 spec detec	4J3S100	Tested
115017	Cent lab meas SARS-CoV-2 antib	43dt500	Tested
114891	Coronavirus as cause of dis classified to other chapters	A7y0000	Diagnosis
114731	Coronavirus contact	65PW.00	Possible
50068	Coronavirus infection	A795.00	Diagnosis
91124	Coronavirus nucleic acid detection	43jS.00	Tested
109154	Coronavirus nucleic acid detection assay	43jS000	Tested
110951	Coronavirus ribonucleic acid detection assay	43jS100	Tested
115037	Detection of SARS-CoV-2 by PCR	43hF.00	Tested
114765	Disease caused by 2019-nCoV (novel coronavirus)	A795100	Diagnosis
115064	Does not have immun SARS-CoV-2	43dt100	Tested
115139	Encephalopat due to SARS-CoV-2	F289.00	Diagnosis
114764	Exposure to 2019-nCoV (novel coronavirus) infection	65PW100	Possible
115295	Gastroenteri due to SARS-CoV-2	A076400	Diagnosis
115072	Has immunity to SARS-CoV-2	43dt400	Tested
115062	Measurement of SARS-CoV-2 antibody	43dtL00	Tested
115136	Measurement of SARS-CoV-2 antigen	43kB.00	Tested
115325	Myocarditis due to SARS-CoV-2	G520800	Diagnosis
115513	Ongoing symptomatic COVID-19	A795500	Diagnosis
115188	Otitis media due to SARS-CoV-2	F529.00	Diagnosis
115008	Pneumonia due to SARS-CoV-2	H204.00	Diagnosis
115232	PoC SARS-CoV-2 species detect	4J3S200	Tested
115058	PoC measure SARS-CoV-2 antibod	43dt600	Tested
115419	Post-COVID-19 syndrome	AyuJC00	Diagnosis
115420	Referral to Your COVID Recovery rehabilitation platform	8Hkl.00	Diagnosis
115418	Referral to post-COVID assessment clinic	8HTE600	Diagnosis
115631	SARS-CoV-2 IgA detected*	43dtM00	Tested
115651	SARS-CoV-2 IgA detection equivocal	43dtN00	Tested
115236	SARS-CoV-2 IgA not detected	43dtP00	Tested
115010	SARS-CoV-2 IgG detected	43dtA00	Tested
115071	SARS-CoV-2 IgG detection equiv	43dtB00	Tested
115144	SARS-CoV-2 IgG detection unkno	43dtC00	Tested
115036	SARS-CoV-2 IgG not detected	43dtD00	Tested

115012	SARS-CoV-2 IgM detected	43dtG00	Tested
115137	SARS-CoV-2 IgM detection equiv	43dtH00	Tested
115148	SARS-CoV-2 IgM detection unkno	43dtJ00	Tested
115040	SARS-CoV-2 IgM not detected	43dtK00	Tested
115059	SARS-CoV-2 RNA detect reslt unknow	4J3R400	Tested
115088	SARS-CoV-2 RNA detect result equiv	4J3R300	Tested
115713	SARS-CoV-2 RNA indeterminate	4J3R500	Tested
115774	SARS-CoV-2 RNA pos lim detect	4J3R600	Tested
115195	SARS-CoV-2 antibody negative	43dtX00	Tested
115235	SARS-CoV-2 antibody positive	43dtW00	Tested
115298	SARS-CoV-2 antigen negative	43kB200	Tested
115426	SARS-CoV-2 antigen positive	43kB100	Tested
115877	SARS-CoV-2 antigen unknown*	43kB400	Tested
115194	SARS-CoV-2 immun status equiv	43dt200	Tested
115067	SARS-CoV-2 immun status unknow	43dt300	Tested
115013	SARS-CoV-2 immunity status	43dt.00	Tested
115061	SARS-CoV-2 species detect test	4J3S.00	Tested
114948	Self-taken swab for SARS-CoV-2 completed	4JF6200	Tested
115016	Self-taken swab for SARS-CoV-2 offered	4JF6100	Tested
115006	Serum SARS-CoV-2 IgG	43dt900	Tested
115138	Serum SARS-CoV-2 IgM	43dtF00	Tested
115068	Serum SARS-CoV-2 total Immunog	43dt700	Tested
114927	Signposting to CHMS (COVID-19 Home Management Service)	8HkjC00	Advice
115404	Signposting to Your COVID Recovery	8HkjG00	Advice
115800	Spec SARS-CoV-2 IgM qual exist	43dtE00	Tested
113745	Suspected coronavirus infection	1JX..00	Possible
114766	Suspected disease caused by 2019-nCoV (novel coronavirus)	1JX1.00	Possible
114951	Swab for SARS-CoV-2 by healthcare professional	4JF6000	Tested
114947	Taking of swab for SARS-CoV-2 (SARS coronavirus 2)	4JF6.00	Tested
114753	Telephone consultation for suspected 2019-nCoV (novel corona	9N31200	Possible
115080	URTI due to SARS-CoV-2	H051100	Diagnosis
114762	[X]Coronavirus infection, unspecified	AyuDC00	Diagnosis
115315	[X]Coronavirus/cause/diseases classified to other chapters	AyuKL00	Diagnosis

CPRD Aurum SARS-CoV-2 code list

Medcode	Term	Snomed CT Description ID	Code Type
13045121000006113	2019-nCoV (novel coronavirus) IgA detected	2829571000000117	Tested / Diagnosis
13053151000006118	2019-nCoV (novel coronavirus) IgA detection result indeterminate	2832381000000115	Tested
13045161000006119	2019-nCoV (novel coronavirus) IgA detection result unknown	2829631000000118	Tested
13045181000006112	2019-nCoV (novel coronavirus) IgA not detected	2829661000000111	Tested
13032641000006118	2019-nCoV (novel coronavirus) IgG detected	2828761000000111	Tested / Diagnosis
13032701000006110	2019-nCoV (novel coronavirus) IgG not detected	2828901000000114	Tested
13032661000006119	2019-nCoV (novel coronavirus) IgM detected	2828801000000118	Tested / Diagnosis
13032781000006118	2019-nCoV (novel coronavirus) IgM detection result equivocal	2829071000000110	Tested
13032681000006112	2019-nCoV (novel coronavirus) IgM not detected	2828871000000114	Tested
13483131000006110	2019-nCoV (novel coronavirus) RNA (ribonucleic acid) not detected	2837051000000113	Tested
13053211000006113	2019-nCoV (novel coronavirus) antibody detection result negative	2832311000000110	Tested
13053191000006112	2019-nCoV (novel coronavirus) antibody detection result positive	2832261000000115	Tested / Diagnosis
13053251000006114	2019-nCoV (novel coronavirus) antibody detection result unknown	2832371000000117	Tested
13053071000006110	2019-nCoV (novel coronavirus) antigen detection result negative	2832051000000111	Tested
13053051000006117	2019-nCoV (novel coronavirus) antigen detection result positive	2832021000000118	Tested / Diagnosis
12990741000006116	2019-nCoV (novel coronavirus) detected	2808081000000112	Tested / Diagnosis
13032861000006118	2019-nCoV (novel coronavirus) detection result equivocal	2829261000000114	Tested
13483601000006110	2019-nCoV (novel coronavirus) detection result positive at the limit of detection	2837991000000116	Tested / Diagnosis
13032881000006111	2019-nCoV (novel coronavirus) detection result unknown	2829271000000119	Tested
13032591000006111	2019-nCoV (novel coronavirus) immunity status	2828251000000118	Tested
12990771000006112	2019-nCoV (novel coronavirus) not detected	2808111000000116	Tested
13483161000006118	2019-nCoV (novel coronavirus) ribonucleic acid detected	2837121000000116	Tested / Diagnosis
12991101000006110	2019-nCoV (novel coronavirus) serology	2808551000000114	Tested
13032451000006118	2019-nCoV (novel coronavirus) species detection test	2828041000000113	Tested
14168601000006119	Acute COVID-19	4361482017	Diagnosis
13486461000006118	Acute COVID-19 infection	2839411000000114	Diagnosis
13486511000006115	Acute bronchitis caused by SARS-CoV-2	2838051000000114	Diagnosis

	(severe acute respiratory syndrome coronavirus 2)		
14168611000006116	Acute disease caused by Severe acute respiratory syndrome coronavirus 2	4361485015	Diagnosis
13486471000006113	Acute disease caused by severe acute respiratory syndrome coronavirus 2 infection	2839421000000115	Diagnosis
13485251000006112	Acute hypoxemic respiratory failure due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838131000000115	Diagnosis
13485211000006111	Acute kidney injury due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838151000000110	Diagnosis
13486661000006116	Acute respiratory distress syndrome due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838171000000118	Diagnosis
13486691000006112	Acute respiratory distress syndrome due to disease caused by Severe acute respiratory syndrome coronavirus 2	3972958019	Diagnosis
12991071000006117	Advice given about 2019-nCoV (novel coronavirus) by telephone	2808521000000116	Advice
12991041000006113	Advice given about 2019-nCoV (novel coronavirus) infection	2808501000000113	Advice
13012411000006111	Advice given about SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) by telephone	2826341000000112	Advice
13012401000006113	Advice given about SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2826421000000113	Advice
12991051000006110	Advice given about Wuhan 2019-nCoV (novel coronavirus) infection	2808511000000110	Advice
13485011000006116	Anti-SARS-CoV-2 IgG	3969013011	Tested
13012141000006117	Antibody to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826441000000118	Tested
13486311000006114	Assessment using C19-YRS (COVID-19 Yorkshire Rehabilitation Screening) tool	2839141000000118	Diagnosis
13002271000006115	Assessment using COVID-19 severity scale	2794361000000111	Diagnosis
13486281000006112	Assessment using Newcastle post-COVID syndrome Follow-up Screening Questionnaire	2839081000000110	Diagnosis
13486351000006110	Assessment using PCFS (Post-COVID-19 Functional Status) Scale patient self-report	2839211000000110	Diagnosis
13486411000006116	Assessment using PCFS (Post-COVID-19 Functional Status) Scale structured interview	2839321000000111	Diagnosis
13486421000006112	Assessment using Post-COVID-19 Functional Status Scale structured interview	2839331000000113	Diagnosis
13486571000006112	Asymptomatic COVID-19	3951313019	Diagnosis
13486561000006117	Asymptomatic SARS-CoV-2 (severe acute respiratory syndrome coronavirus	2838071000000117	Diagnosis

	2) infection		
13486291000006110	C19-YRS (COVID-19 Yorkshire Rehabilitation Screening) tool	2839111000000119	Diagnosis
13012431000006117	COVID-19	2826511000000115	Diagnosis
13483031000006114	COVID-19	3947185011	Diagnosis
13486301000006111	COVID-19 Yorkshire Rehabilitation Screening tool	2839121000000113	Diagnosis
13486521000006111	COVID-19 acute bronchitis	3951097012	Diagnosis
13486671000006111	COVID-19 acute respiratory distress syndrome	3951113013	Diagnosis
13012441000006110	COVID-19 caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826541000000119	Diagnosis
13002281000006117	COVID-19 confirmed by laboratory test	2799591000000111	Tested / Diagnosis
13002311000006115	COVID-19 confirmed clinically	2799661000000118	Diagnosis
13002291000006119	COVID-19 confirmed using clinical diagnostic criteria	2799621000000114	Diagnosis
13483951000006118	COVID-19 detected	3973484010	Tested / Diagnosis
13002451000006114	COVID-19 excluded by laboratory test	2827331000000118	Tested
13486761000006113	COVID-19 lower respiratory infection	3951300013	Diagnosis
13483971000006111	COVID-19 not detected	3973487015	Tested
13484091000006110	COVID-19 pneumonia	3951095016	Diagnosis
13002261000006110	COVID-19 severity scale	2794311000000114	Diagnosis
13002251000006113	COVID-19 severity score	2712291000000117	Diagnosis
13484031000006111	Cardiomyopathy due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2836591000000110	Diagnosis
13033001000006117	Central laboratory 2019-nCoV (novel coronavirus) antibody detection test	2829421000000117	Tested
13032951000006112	Central laboratory 2019-nCoV (novel coronavirus) species detection test	2829351000000115	Tested
13032991000006118	Central laboratory SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection test	2829411000000111	Tested
13032941000006110	Central laboratory SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) species detection test	2829331000000110	Tested
12990381000006111	Close exposure to 2019-nCoV (novel coronavirus) infection	2807671000000117	Possible
13012181000006111	Close exposure to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2826461000000117	Possible
12802201000006117	Confirmed 2019-nCoV (novel coronavirus) infection	12802201000006117	Diagnosis
13485901000006118	Conjunctivitis due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838211000000115	Diagnosis
12990531000006116	Detection of 2019-nCoV (novel coronavirus) using polymerase chain reaction technique	2807871000000116	Tested / Diagnosis
13485771000006110	Detection of COVID-19	3973481019	Tested / Diagnosis

13485461000006110	Detection of RNA (ribonucleic acid) of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) in nasopharyngeal swab	2838581000000112	Tested / Diagnosis
13485521000006117	Detection of RNA (ribonucleic acid) of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) in oropharyngeal swab	2838561000000115	Tested / Diagnosis
13485581000006118	Detection of RNA (ribonucleic acid) of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) in sputum	2838541000000116	Tested / Diagnosis
13485701000006116	Detection of RNA (ribonucleic acid) of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) using polymerase chain reaction	2838511000000117	Tested / Diagnosis
13485751000006117	Detection of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838481000000111	Tested / Diagnosis
13485341000006115	Detection of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody	2838621000000112	Tested / Diagnosis
13485381000006114	Detection of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antigen	2838601000000115	Tested / Diagnosis
13012231000006116	Detection of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) using polymerase chain reaction technique	2826591000000112	Tested / Diagnosis
13485471000006115	Detection of ribonucleic acid of 2019 novel coronavirus in nasopharyngeal swab	3973433014	Tested / Diagnosis
13485711000006118	Detection of ribonucleic acid of COVID-19 using polymerase chain reaction	3973463017	Tested / Diagnosis
13485421000006116	Detection of ribonucleic acid of Severe acute respiratory syndrome coronavirus 2	3973428010	Tested / Diagnosis
13483041000006116	Disease caused by 2019 novel coronavirus	3902357013	Diagnosis
13483051000006119	Disease caused by 2019-nCoV	3902358015	Diagnosis
12991131000006119	Disease caused by 2019-nCoV (novel coronavirus)	2808881000000118	Diagnosis
13483061000006117	Disease caused by Severe acute respiratory syndrome coronavirus 2	3970750011	Diagnosis
12991141000006112	Disease caused by Wuhan 2019-nCoV (novel coronavirus)	2808901000000115	Diagnosis
13032891000006114	Does not have immunity to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2829231000000116	Tested
13485991000006113	Dyspnoea caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838271000000113	Diagnosis
12991031000006115	Educated about 2019 novel coronavirus infection	2809171000000115	Advice
12991011000006114	Educated about 2019-nCoV (novel coronavirus) infection	2808471000000118	Advice
13012391000006111	Educated about SARS-CoV-2 (severe acute respiratory syndrome coronavirus	2826681000000111	Advice

	2) infection		
12991021000006118	Educated about Wuhan 2019-nCoV (novel coronavirus) infection	2808481000000116	Advice
13012281000006115	Encephalopathy caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826711000000110	Diagnosis
13483911000006119	Encephalopathy due to COVID-19	3970720015	Diagnosis
13483891000006116	Encephalopathy due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838291000000112	Diagnosis
13483921000006110	Encephalopathy due to disease caused by Severe acute respiratory syndrome coronavirus 2	3972998017	Diagnosis
13484691000006117	Exposure to 2019 novel coronavirus	3902381018	Possible
13484711000006119	Exposure to 2019-nCoV (novel coronavirus)	2836621000000113	Possible
12990351000006115	Exposure to 2019-nCoV (novel coronavirus) infection	2807641000000111	Possible
12802171000006116	Exposure to 2019-nCoV (novel coronavirus) infection	12802171000006116	Possible
13484681000006115	Exposure to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2836601000000116	Possible
13012171000006113	Exposure to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2826731000000119	Possible
12990361000006118	Exposure to Wuhan 2019-nCoV (novel coronavirus) infection	2807651000000114	Possible
13045241000006110	Exposure to confirmed case of 2019-nCoV (novel coronavirus) infection	2829751000000116	Possible
13045231000006117	Exposure to confirmed case of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2829741000000119	Possible
13045251000006112	Exposure to suspected case of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2829761000000118	Possible
13485951000006119	Fever caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838311000000113	Diagnosis
12990711000006115	Gastroenteritis caused by 2019-nCoV (novel coronavirus)	2808051000000118	Diagnosis
13012291000006117	Gastroenteritis caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826771000000117	Diagnosis
13032831000006110	Has immunity to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2829131000000112	Tested
13486631000006113	History of COVID-19	3951310016	Diagnosis
13486611000006119	History of disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838101000000114	Diagnosis
13483871000006117	Infection of upper respiratory tract caused by 2019 novel coronavirus	3970607014	Diagnosis
13483881000006119	Infection of upper respiratory tract caused by Severe acute respiratory syndrome coronavirus 2	3970708011	Diagnosis

13486741000006114	Lower respiratory infection caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838241000000119	Diagnosis
13486771000006118	Lower respiratory infection caused by Severe acute respiratory syndrome coronavirus 2	3972962013	Diagnosis
13484801000006113	Lymphocytopenia due to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838371000000115	Diagnosis
13484821000006115	Lymphopenia due to COVID-19	3968534018	Diagnosis
13483691000006115	Measurement of 2019 novel coronavirus antibody	3970553011	Tested
12990441000006113	Measurement of 2019-nCoV (novel coronavirus) antibody	12990441000006113	Tested
13483981000006114	Measurement of 2019-nCoV (novel coronavirus) antibody	2807721000000110	Tested
12990471000006117	Measurement of 2019-nCoV (novel coronavirus) antigen	12990471000006117	Tested
13483681000006118	Measurement of COVID-19 antibody	3970552018	Tested
13483731000006111	Measurement of COVID-19 antigen	3970579019	Tested
13483091000006113	Measurement of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody	2836931000000119	Tested
13012201000006112	Measurement of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody	2827551000000119	Tested
13012211000006110	Measurement of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antigen	2827571000000111	Tested
13483171000006113	Measurement of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antigen	2837151000000114	Tested
13483671000006116	Measurement of Severe acute respiratory syndrome coronavirus 2 antibody	3972924010	Tested
13483721000006113	Measurement of Severe acute respiratory syndrome coronavirus 2 antigen	3972922014	Tested
12990591000006117	Myocarditis caused by 2019-nCoV (novel coronavirus)	12990591000006117	Diagnosis
13012251000006111	Myocarditis caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827591000000110	Diagnosis
13483841000006113	Myocarditis due to COVID-19	3970721016	Diagnosis
13483821000006118	Myocarditis due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838441000000115	Diagnosis
13485481000006117	Nasopharyngeal swab COVID-19 ribonucleic acid assay	3973434015	Tested
13486271000006114	Newcastle post-COVID syndrome Follow-up Screening Questionnaire	2839061000000118	Diagnosis
13486481000006111	Ongoing symptomatic COVID-19	2839441000000110	Diagnosis
13486491000006114	Ongoing symptomatic disease caused by severe acute respiratory syndrome coronavirus 2	2839451000000113	Diagnosis
13012241000006114	Otitis media caused by SARS-CoV-2 (severe acute respiratory syndrome	2827611000000119	Diagnosis

	coronavirus 2)		
13483791000006110	Otitis media due to COVID-19	3970722011	Diagnosis
13483771000006114	Otitis media due to disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838421000000110	Diagnosis
13486331000006115	PCFS (Post-COVID-19 Functional Status) Scale patient self-report	2839171000000112	Diagnosis
13486371000006117	PCFS (Post-COVID-19 Functional Status) Scale patient self-report final scale grade	2839251000000114	Diagnosis
13486431000006110	PCFS (Post-COVID-19 Functional Status) Scale structured interview	2839351000000118	Diagnosis
13486391000006116	PCFS (Post-COVID-19 Functional Status) Scale structured interview final scale grade	2839291000000118	Diagnosis
13032971000006119	POC (point of care) SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection test	2829381000000114	Tested
13484101000006116	Pneumonia caused by 2019 novel coronavirus	3951294010	Diagnosis
12990651000006112	Pneumonia caused by 2019-nCoV (novel coronavirus)	2807991000000111	Diagnosis
13484121000006114	Pneumonia caused by 2019-nCoV (novel coronavirus)	2833741000000115	Diagnosis
13012271000006118	Pneumonia caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827631000000110	Diagnosis
13484081000006112	Pneumonia caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2833571000000118	Diagnosis
13032981000006116	Point of care 2019-nCoV (novel coronavirus) antibody detection test	2829391000000111	Tested
13032961000006114	Point-of-care SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection test	2829371000000112	Tested
13032911000006111	Point-of-care SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) species detection test	2829301000000116	Tested
13484671000006118	Possible COVID-19	2833701000000118	Possible
13012471000006119	Possible COVID-19	2827531000000114	Possible
13486451000006115	Post-COVID-19 syndrome	2839381000000112	Diagnosis
14176451000006112	Post-COVID-19 syndrome resolved	2847791000000118	Diagnosis
14168621000006112	Post-acute COVID-19	4361486019	Diagnosis
13002301000006118	Probable COVID-19 confirmed using clinical diagnostic criteria	2799651000000116	Possible
13045291000006118	Provision of advice, assessment or treatment delayed due to COVID-19 pandemic	2829811000000113	Advice
13002551000006110	Provision of advice, assessment or treatment limited due to COVID-19 pandemic	2827521000000112	Advice
13486261000006119	Referral to Your COVID Recovery rehabilitation platform	2839041000000119	Diagnosis
14259201000006118	Referral to long term effects of COVID-19 assessment clinic	2880321000000114	Diagnosis

13486251000006116	Referral to post-COVID assessment clinic	2839011000000115	Diagnosis
13483611000006113	SARS (severe acute respiratory syndrome) coronavirus 2 RNA	3970759012	Tested / Diagnosis
6874141000006113	SARS-CoV	2537007017	Diagnosis
6618161000006117	SARS-CoV PCR	2536660012	Tested
6604671000006111	SARS-CoV infection	2536663014	Diagnosis
13045131000006111	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgA detection result equivocal	2829591000000118	Tested
13053141000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgA detection result indeterminate	2832181000000118	Tested
13045171000006114	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgA detection result negative	2829641000000110	Tested
13045111000006117	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgA detection result positive	2829551000000114	Tested / Diagnosis
13045151000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgA detection result unknown	2829621000000115	Tested
13032541000006119	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG arbitrary concentration in serum	2828171000000115	Tested
13032731000006119	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result equivocal	2828961000000113	Tested
13053121000006110	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result indeterminate	2832161000000110	Tested
13032691000006110	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result negative	2828891000000113	Tested
13032631000006111	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result positive	2828741000000110	Tested / Diagnosis
13032791000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result unknown	2829091000000114	Tested
13032501000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG qualitative existence in specimen	2828101000000111	Tested / Diagnosis
13032561000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM arbitrary concentration in serum	2828201000000119	Tested
13053161000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM detection result indeterminate	2832201000000119	Tested
13032671000006114	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM detection result negative	2829491000000119	Tested
13032651000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM detection result positive	2829471000000118	Tested / Diagnosis
13032711000006113	SARS-CoV-2 (severe acute respiratory	2829461000000113	Tested

	syndrome coronavirus 2) IgM detection result unknown		
13052391000006118	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result equivocal	2831471000000115	Tested
13483571000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result indeterminate	2837951000000112	Tested
13483111000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result negative	2837011000000114	Tested
13052361000006114	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result negative	2831561000000114	Tested
13483141000006117	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result positive	2837101000000113	Tested / Diagnosis
13052351000006112	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result positive	2831581000000117	Tested / Diagnosis
13483591000006119	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result positive at the limit of detection	2837971000000115	Tested / Diagnosis
13052401000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) detection result unknown	2831601000000114	Tested
13052381000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) RNA (ribonucleic acid) qualitative existence in specimen	2831751000000118	Tested / Diagnosis
13053221000006117	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection result indeterminate	2832331000000119	Tested
14146681000006119	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection result negative	2847661000000119	Tested
13053201000006110	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection result negative	2832301000000113	Tested
14146661000006112	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection result positive	2847651000000117	Tested / Diagnosis
13053181000006114	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection result positive	2832251000000118	Tested / Diagnosis
13053241000006112	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection result unknown	2832361000000112	Tested
13053081000006113	SARS-CoV-2 (severe acute respiratory	2832061000000114	Tested

	syndrome coronavirus 2) antigen detection result indeterminate		
13053061000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antigen detection result negative	2832031000000116	Tested
13053041000006119	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antigen detection result positive	2832011000000112	Tested / Diagnosis
13053101000006117	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antigen detection result unknown	2832131000000117	Tested
13012301000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detected	2827041000000112	Tested / Diagnosis
13032851000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result equivocal	2829201000000110	Tested
13039291000006119	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result negative	2829521000000116	Tested
13039281000006117	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result positive	2829511000000110	Tested / Diagnosis
13032871000006113	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result unknown	2829211000000112	Tested
13032581000006113	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) immunity status	2828231000000113	Tested
13032811000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) immunity status unknown	2829111000000116	Tested
13012311000006118	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) not detected	2827081000000116	Tested
13012421000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) serology	2827201000000118	Tested
13032441000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) species detection test	2828021000000118	Tested
13032521000006114	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) total immunoglobulin arbitrary concentration in serum	2828151000000112	Tested
13484481000006118	SARS-CoV-2 - severe acute respiratory syndrome coronavirus 2	2833561000000113	Diagnosis
13485001000006119	SARS-CoV-2 IgG	3969014017	Tested
13485051000006115	SARS-CoV-2 IgM	3969018019	Tested
14164811000006112	SARS-CoV-2 viraemia	4230129018	Diagnosis
13002341000006116	Self-taken swab for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) completed	2826611000000116	Tested
13002361000006117	Self-taken swab for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) offered	2826691000000113	Tested
13485171000006114	Sepsis due to disease caused by COVID-19	3970769018	Diagnosis
13485161000006119	Sepsis due to disease caused by SARS-	2838331000000117	Diagnosis

	CoV-2 (severe acute respiratory syndrome coronavirus 2)		
12990321000006112	Serotype 2019-nCoV (novel coronavirus)	2807611000000110	Tested
13012161000006118	Serotype SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826981000000117	Tested
13483941000006115	Severe acute respiratory syndrome coronavirus 2 detected	3970626018	Tested / Diagnosis
13483961000006116	Severe acute respiratory syndrome coronavirus 2 not detected	3970623014	Tested
13483151000006115	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid detected	2837091000000117	Tested / Diagnosis
13483121000006112	Severe acute respiratory syndrome coronavirus 2 ribonucleic acid not detected	2837021000000115	Tested
13002611000006110	Signposting to CHMS (COVID-19 Home Management Service)	2827781000000118	Advice
13486241000006118	Signposting to Your COVID Recovery	2839001000000117	Advice
12802181000006118	Suspected 2019-nCoV (novel coronavirus) infection	12802181000006118	Possible
13484621000006119	Suspected COVID-19	3950926016	Possible
13012451000006112	Suspected COVID-19	2827381000000119	Possible
13012461000006114	Suspected COVID-19 caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827391000000117	Possible
13484631000006116	Suspected disease caused by 2019 novel coronavirus	3902372012	Possible
12991171000006116	Suspected disease caused by 2019 novel coronavirus	2809021000000118	Possible
13484651000006111	Suspected disease caused by 2019-nCoV (novel coronavirus)	2833681000000115	Possible
12991161000006111	Suspected disease caused by 2019-nCoV (novel coronavirus)	2809001000000110	Possible
13484661000006113	Suspected disease caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2833691000000118	Possible
13484641000006114	Suspected disease caused by Severe acute respiratory coronavirus 2	3972946019	Possible
12991181000006118	Suspected disease caused by Wuhan 2019-nCoV (novel coronavirus)	2809031000000116	Possible
13002391000006113	Swab for 2019-nCoV (novel coronavirus) taken by healthcare professional	2826961000000114	Tested
13002381000006110	Swab for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) taken by healthcare professional	2826951000000111	Tested
13002331000006114	Taking of swab for 2019-nCoV (novel coronavirus)	2826271000000111	Tested
13002321000006111	Taking of swab for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826251000000119	Tested
12990411000006114	Telephone consultation for suspected 2019-nCoV (novel coronavirus)	2807691000000118	Possible
13012191000006114	Telephone consultation for suspected SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827261000000119	Possible

12990421000006118	Telephone consultation for suspected Wuhan 2019-nCoV (novel coronavirus)	2807711000000116	Possible
12802191000006115	Tested for 2019-nCoV (novel coronavirus) infection	12802191000006115	Tested
13484871000006119	Thrombocytopenia due to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2838351000000112	Diagnosis
12990621000006115	Upper respiratory tract infection caused by 2019-nCoV (novel coronavirus)	2807971000000112	Diagnosis
13012261000006113	Upper respiratory tract infection caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827671000000112	Diagnosis
12990751000006119	Wuhan 2019-nCoV (novel coronavirus) detected	2808101000000118	Tested / Diagnosis
12990781000006110	Wuhan 2019-nCoV (novel coronavirus) not detected	2808131000000112	Tested