



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

September 2020

## Background

### CPRD primary databases

The Clinical Practice Research Datalink (CPRD) holds longitudinal primary care EHR on 50 million patients, with a median 10 year follow up. CPRD data cover 24% of the UK population (over 16 million patients) currently registered at a network of 1 in every 5 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 September 2020 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

The CPRD GOLD September 2020 build includes data from 19.1M patients, of which 3.2M are currently registered and acceptable<sup>1</sup>. A total of 933 GP practices have contributed data to CPRD GOLD of which 407 are currently contributing practices.

The CPRD Aurum September 2020 build includes data from 37.2M patients, of which 12.8M are currently registered and acceptable<sup>1</sup>. A total of 1,431 GP practices have contributed data to CPRD Aurum of which 1,350 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 – 31/08/2020** 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.

**129,661** events related to SARS-CoV-2 were recorded in CPRD GOLD in the period 02/12/2019-31/08/2020. Each coded event is counted, irrespective of the distance between consecutive entries. These relate to **92,388** unique patients.

**974,335** events related to SARS-CoV-2 were recorded in CPRD Aurum in the period 02/12/2019-31/08/2020. Each coded event is counted, irrespective of the distance between consecutive entries. These relate to **535,569** unique patients.

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

**Table 1. SARS-CoV-2 codes by gender**

Gender	CPRD GOLD events	CPRD GOLD patients	CPRD Aurum events	CPRD Aurum patients
Male	50,161	38,020	386,244	216,897
Female	79,500	54,368	588,091	318,672



**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.

**Table 2. SARS-CoV-2 codes by age group**

<b>Age Group</b>	<b>CPRD GOLD events</b>	<b>CPRD GOLD patients</b>	<b>CPRD Aurum events</b>	<b>CPRD Aurum patients</b>
<b>0-18</b>	9,926	8,345	93,915	56,343
<b>19-49</b>	50,214	35,759	394,633	225,419
<b>50-59</b>	21,728	14,957	150,563	80,623
<b>60-69</b>	16,618	11,910	119,889	62,009
<b>70-79</b>	14,121	10,622	101,599	53,746
<b>80+</b>	17,054	10,795	113,736	57,429



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

**Table 3. SARS-CoV-2 codes by practice country**

Practice country	Number of currently contributing CPRD practices (n= 1580) <sup>1</sup>	Regional coverage of CPRD practices <sup>2</sup>	All events (CPRD Aurum + CPRD GOLD)	Patients (CPRD Aurum + CPRD GOLD)
<b>England</b>	1,257 (79.6%)	21.5%	1,028,255	578,417
<b>Northern Ireland</b>	42 (2.7%)	15.5%	6,445	3,506
<b>Scotland</b>	180 (11.4%)	19.7%	54,045	35,353
<b>Wales</b>	101 (6.4%)	24.8%	15,251	10,681

**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. Note: There were no vaccination codes in CPRD GOLD.

**Table 4. SARS-CoV-2 codes by code type**

Code Type	CPRD GOLD events	CPRD GOLD patients	CPRD Aurum events	CPRD Aurum patients
<b>Possible</b>	21,692	18,559	124,717	85,191
<b>Tested</b>	75,303	50,148	236,242	176,823
<b>Diagnosis</b>	2,973	2,670	69,494	44,019
<b>Advice</b>	29,693	26,930	543,402	271,204
<b>Vaccination</b>	-	-	480	466

**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’<sup>3</sup> flag has not been applied. This allows the inclusion of temporary patients.

<sup>1</sup> Numbers correct at release of May 2020 database builds

<sup>2</sup> Based on currently contributing practices and national practice numbers in May 2020.

<sup>3</sup> Acceptable patients are identified within the CPRD using pre-defined criteria to assess the research quality of a patient health record



- 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

medcode	Read code	Term	Code Type
114771	4J3R100	2019-nCoV (novel coronavirus) detected	Tested
114769	4J3R200	2019-nCoV (novel coronavirus) not detected	Tested
114770	4J3R.00	2019-nCoV (novel coronavirus) serology	Tested
114760	8CAO100	Advice given about 2019-nCoV (novel coronavirus) by telephone	Advice
114754	8CAO.00	Advice given about 2019-nCoV (novel coronavirus) infection	Advice
114891	A7y0000	Coronavirus as cause of dis classified to other chapters	Diagnosis
114731	65PW.00	Coronavirus contact	Possible
50068	A795.00	Coronavirus infection	Diagnosis
91124	43jS.00	Coronavirus nucleic acid detection	Tested
109154	43jS000	Coronavirus nucleic acid detection assay	Tested
110951	43jS100	Coronavirus ribonucleic acid detection assay	Tested
114765	A795100	Disease caused by 2019-nCoV (novel coronavirus)	Diagnosis
114764	65PW100	Exposure to 2019-nCoV (novel coronavirus) infection	Possible
113745	1JX..00	Suspected coronavirus infection	Possible
114766	1JX1.00	Suspected disease caused by 2019-nCoV (novel coronavirus)	Possible
114753	9N31200	Telephone consultation for suspected 2019-nCoV (novel coronavirus)	Possible
114762	AyuDC00	[X]Coronavirus infection, unspecified	Diagnosis

### CPRD Aurum SARS-CoV-2 code list (to be updated monthly)

medcodeid	Term	Snomed CT descriptionid	Type
12990761000006117	2019 novel coronavirus detected	2808921000000112	Tested/ Diagnosis
12990791000006113	2019 novel coronavirus not detected	2808931000000114	Tested
12991121000006117	2019 novel coronavirus serology	2808991000000110	Tested
12990521000006119	2019 novel coronavirus vaccination	2808751000000116	Vaccination
12991221000006110	2019 novel coronavirus vaccination invitation SMS (short message service) text message sent	2809181000000118	Vaccination
12991201000006117	2019 novel coronavirus vaccination invitation short message service text message sent	2809141000000114	Vaccination
13045201000006113	2019-nCoV (novel coronavirus) IgG	2828761000000111	Tested/



	detected		Diagnosis
13045121000006113	2019-nCoV (novel coronavirus) IgG detection result equivocal	2828971000000118	Tested
13045141000006118	2019-nCoV (novel coronavirus) IgG detection result unknown	2829101000000118	Tested
13053151000006118	2019-nCoV (novel coronavirus) IgG not detected	2828901000000114	Tested
13045161000006119	2019-nCoV (novel coronavirus) IgM detected	2828801000000118	Tested/ Diagnosis
13045181000006112	2019-nCoV (novel coronavirus) IgM detection result equivocal	2829071000000110	Tested
13045221000006115	2019-nCoV (novel coronavirus) IgM detection result unknown	2828941000000112	Tested
13032551000006117	2019-nCoV (novel coronavirus) IgM not detected	2828871000000114	Tested
13032641000006118	2019-nCoV (novel coronavirus) detected	2808081000000112	Tested/ Diagnosis
13032741000006112	2019-nCoV (novel coronavirus) detection result equivocal	2829261000000114	Tested
13053131000006113	2019-nCoV (novel coronavirus) detection result unknown	2829271000000119	Tested
13032801000006119	2019-nCoV (novel coronavirus) not detected	2808111000000116	Tested
13032701000006110	2019-nCoV (novel coronavirus) serology	2808551000000114	Tested
13032511000006118	2019-nCoV (novel coronavirus) species detection test	2828041000000113	Tested
13032571000006110	2019-nCoV (novel coronavirus) vaccination	2807821000000115	Vaccination
13032661000006119	2019-nCoV (novel coronavirus) vaccination invitation SMS (short message service) text message sent	2809121000000119	Vaccination
13032781000006118	Advice given about 2019 novel coronavirus by telephone	2809081000000117	Advice
13053171000006111	Advice given about 2019 novel coronavirus infection	2809161000000110	Advice
13032721000006117	Advice given about 2019-nCoV (novel coronavirus) by telephone	2808521000000116	Advice
13032681000006112	Advice given about 2019-nCoV (novel coronavirus) infection	2808501000000113	Advice
13032491000006112	Advice given about SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) by telephone	2826341000000112	Advice
13053231000006119	Advice given about SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2826421000000113	Advice
13053211000006113	Advice given about Wuhan 2019-nCoV	2808541000000111	Advice



	(novel coronavirus) by telephone		
13053191000006112	Advice given about Wuhan 2019-nCoV (novel coronavirus) infection	2808511000000110	Advice
13053251000006114	Assessment using COVID-19 severity scale	2794361000000111	Diagnosis
13053091000006111	COVID-19	2826511000000115	Diagnosis
13053071000006110	COVID-19 caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826541000000119	Diagnosis
13053051000006117	COVID-19 confirmed by laboratory test	2799591000000111	Tested/ Diagnosis
13053111000006119	COVID-19 confirmed clinically	2799661000000118	Diagnosis
12990741000006116	COVID-19 confirmed using clinical diagnostic criteria	2799621000000114	Diagnosis
13032861000006118	COVID-19 excluded by laboratory test	2827331000000118	Tested
13032881000006111	COVID-19 severity scale	2794311000000114	Diagnosis
13032591000006111	COVID-19 severity score	2712291000000117	Diagnosis
13032761000006111	Cardiomyopathy caused by 2019-nCoV (novel coronavirus)	2828261000000115	Diagnosis
13032821000006112	Cardiomyopathy caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827881000000110	Diagnosis
12990771000006112	Central laboratory 2019-nCoV (novel coronavirus) antibody detection test	2829421000000117	Tested
13032471000006111	Central laboratory 2019-nCoV (novel coronavirus) species detection test	2829351000000115	Tested
12991101000006110	Central laboratory SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection test	2829411000000111	Tested
13032451000006118	Central laboratory SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) species detection test	2829331000000110	Tested
13032531000006112	Close exposure to 2019 novel coronavirus infection	2808701000000117	Possible
12990501000006112	Close exposure to 2019-nCoV (novel coronavirus) infection	2807671000000117	Possible
12991191000006115	Close exposure to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2826461000000117	Possible
12991091000006116	Close exposure to Wuhan 2019-nCoV (novel coronavirus) infection	2807681000000115	Possible
12991061000006112	Confirmed 2019-nCoV (novel coronavirus) infection	12802201000006117	Diagnosis
12991071000006117	Coronavirus as cause of dis classified to other chapters	287060018	Diagnosis
12991041000006113	Coronavirus contact	2390201000000113	Possible



13012411000006111	Coronavirus contact	1861021000006114	Possible
13012401000006113	Coronavirus infection	287060018	Diagnosis
12991081000006119	Coronavirus nucleic acid detection	2595381000000117	Tested
12991051000006110	Coronavirus nucleic acid detection assay	2595381000000117	Tested
13002271000006115	Coronavirus ribonucleic acid detection assay	2586231000000115	Tested
13012431000006117	Detection of 2019 novel coronavirus using polymerase chain reaction technique	2808741000000119	Tested
13012441000006110	Detection of 2019-nCoV (novel coronavirus) using polymerase chain reaction technique	2807871000000116	Tested
13002281000006117	Detection of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) using polymerase chain reaction technique	2826591000000112	Tested
13002311000006115	Detection of Wuhan 2019-nCoV (novel coronavirus) using polymerase chain reaction technique	2807891000000117	Tested
13002291000006119	Disease caused by 2019 novel coronavirus	2808911000000118	Diagnosis
13002451000006114	Disease caused by 2019-nCoV (novel coronavirus)	2808881000000118	Diagnosis
13002261000006110	Disease caused by Wuhan 2019-nCoV (novel coronavirus)	2808901000000115	Diagnosis
13002251000006113	EMIS COVID-19 care pathway template entry	13044541000006113	Diagnosis
13032381000006117	Educated about 2019 novel coronavirus infection	2809171000000115	Advice
13032371000006115	Educated about 2019-nCoV (novel coronavirus) infection	2808471000000118	Advice
13033001000006117	Educated about SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2826681000000111	Advice
13032951000006112	Educated about Wuhan 2019-nCoV (novel coronavirus) infection	2808481000000116	Advice
13032991000006118	Encephalopathy caused by 2019 novel coronavirus	2808811000000113	Diagnosis
13032941000006110	Encephalopathy caused by 2019-nCoV (novel coronavirus)	2808031000000113	Diagnosis
12990401000006111	Encephalopathy caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826711000000110	Diagnosis
12990381000006111	Encephalopathy caused by Wuhan 2019-nCoV (novel coronavirus)	2808041000000116	Diagnosis
13012181000006111	Exposure to 2019 novel coronavirus	2808711000000115	Possible





	infection		
12990391000006114	Exposure to 2019-nCoV (novel coronavirus) infection	2807641000000111	Possible
12802201000006117	Exposure to 2019-nCoV (novel coronavirus) infection	12802171000006116	Possible
595821000006116	Exposure to SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) infection	2826731000000119	Possible
1861021000006114	Exposure to Wuhan 2019-nCoV (novel coronavirus) infection	2807651000000114	Possible
2266211000000118	Exposure to coronavirus infection	3004378016	Possible
287060018	Gastroenteritis caused by 2019 novel coronavirus	2808821000000119	Diagnosis
312761000000115	Gastroenteritis caused by 2019-nCoV (novel coronavirus)	2808051000000118	Diagnosis
2331261000000114	Gastroenteritis caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2826771000000117	Diagnosis
1923661000006111	Gastroenteritis caused by Wuhan 2019-nCoV (novel coronavirus)	2808071000000110	Diagnosis
12990551000006111	High priority for 2019 novel coronavirus vaccination	2808971000000111	Vaccination
12990531000006116	High priority for 2019-nCoV (novel coronavirus) vaccination	2808151000000117	Vaccination
13012231000006116	High priority for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination	2826751000000114	Vaccination
12990541000006114	High priority for Wuhan 2019-nCoV (novel coronavirus) vaccination	2808161000000119	Vaccination
12991151000006114	Infection of upper respiratory tract caused by 2019 novel coronavirus	2808861000000110	Diagnosis
12991131000006119	Measurement of 2019 novel coronavirus antibody	2808761000000118	Tested
12991141000006112	Measurement of 2019 novel coronavirus antigen	2808781000000110	Tested
13032901000006113	Measurement of 2019-nCoV (novel coronavirus) antibody	2807721000000110	Tested
13032891000006114	Measurement of 2019-nCoV (novel coronavirus) antigen	2807761000000119	Tested
13044541000006113	Measurement of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody	2827551000000119	Tested
12991031000006115	Measurement of SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antigen	2827571000000111	Tested
12991011000006114	Measurement of Wuhan 2019-nCoV	2807741000000115	Tested



	(novel coronavirus) antibody		
13012391000006111	Measurement of Wuhan 2019-nCoV (novel coronavirus) antigen	2807771000000114	Tested
12991021000006118	Myocarditis caused by 2019 novel coronavirus	2808831000000117	Diagnosis
12990701000006118	Myocarditis caused by 2019-nCoV (novel coronavirus)	2807941000000118	Diagnosis
12990681000006116	Myocarditis caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827591000000110	Diagnosis
13012281000006115	Myocarditis caused by Wuhan 2019-nCoV (novel coronavirus)	2807951000000115	Diagnosis
12990691000006118	Otitis media caused by 2019 novel coronavirus	2808841000000114	Diagnosis
12990371000006113	Otitis media caused by 2019-nCoV (novel coronavirus)	2807901000000116	Diagnosis
12990351000006115	Otitis media caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827611000000119	Diagnosis
12802171000006116	Otitis media caused by Wuhan 2019-nCoV (novel coronavirus)	2807921000000113	Diagnosis
13012171000006113	POC (point of care) SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection test	2829381000000114	Tested
12990361000006118	POC (point of care) SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) species detection test	2829311000000119	Tested
13045241000006110	Pneumonia caused by 2019 novel coronavirus	2808851000000112	Diagnosis
13045231000006117	Pneumonia caused by 2019-nCoV (novel coronavirus)	2807991000000111	Diagnosis
7562791000006119	Pneumonia caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827631000000110	Diagnosis
13045261000006114	Pneumonia caused by Wuhan 2019-nCoV (novel coronavirus)	2808011000000117	Diagnosis
13045251000006112	Point of care 2019-nCoV (novel coronavirus) antibody detection test	2829391000000111	Tested
12990731000006114	Point of care 2019-nCoV (novel coronavirus) species detection test	2829341000000118	Tested
12990711000006115	Point-of-care SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) antibody detection test	2829371000000112	Tested
13012291000006117	Point-of-care SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) species detection test	2829301000000116	Tested



12990721000006111	Possible COVID-19	2827531000000114	Possible
13032841000006117	Probable COVID-19 confirmed using clinical diagnostic criteria	2799651000000116	Possible
13032831000006110	Provision of advice, assessment or treatment limited due to COVID-19 pandemic	2827521000000112	Advice
12990821000006116	SARS-CoV infection	2536663014	Diagnosis
12990801000006114	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result equivocal	2828961000000113	Tested
13012321000006114	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result negative	2828891000000113	Tested
12990811000006112	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result positive	2828741000000110	Tested/ Diagnosis
12990641000006110	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgG detection result unknown	2829091000000114	Tested
12990461000006112	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM detection result equivocal	2829451000000110	Tested
12990491000006116	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM detection result negative	2829491000000119	Tested
12990441000006113	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM detection result positive	2829471000000118	Tested/ Diagnosis
12990471000006117	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) IgM detection result unknown	2829461000000113	Tested
13012201000006112	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detected	2827041000000112	Tested/ Diagnosis
13012211000006110	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result equivocal	2829201000000110	Tested
12990451000006110	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result negative	2829521000000116	Tested
12990481000006119	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result positive	2829511000000110	Tested/ Diagnosis
12990611000006111	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) detection result unknown	2829211000000112	Tested
12990591000006117	SARS-CoV-2 (severe acute respiratory	2827081000000116	Tested



	syndrome coronavirus 2) not detected		
13012251000006111	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) serology	2827201000000118	Tested
12990601000006113	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) species detection test	2828021000000118	Tested
12990581000006115	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination	2827001000000114	Vaccination
12990561000006113	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) vaccination invitation SMS (short message service) text message sent	2827221000000110	Vaccination
13012241000006114	Self-taken swab for 2019-nCoV (novel coronavirus) completed	2826641000000115	Tested
12990571000006118	Self-taken swab for 2019-nCoV (novel coronavirus) offered	2826651000000117	Tested
13032971000006119	Self-taken swab for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) completed	2826611000000116	Tested
13032921000006115	Self-taken swab for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) offered	2826691000000113	Tested
12990671000006119	Signposting to CHMS (COVID-19 Home Management Service)	2827781000000118	Advice
12990651000006112	Suspected 2019-nCoV (novel coronavirus) infection	12802181000006118	Possible
13012271000006118	Suspected COVID-19	2827381000000119	Possible
12990661000006114	Suspected COVID-19 caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827391000000117	Possible
13032981000006116	Suspected coronavirus infection	2989665015	Possible
13032931000006117	Suspected coronavirus infection	1861011000006118	Possible
13032961000006114	Suspected disease caused by 2019 novel coronavirus	2809021000000118	Possible
13032911000006111	Suspected disease caused by 2019-nCoV (novel coronavirus)	2809001000000110	Possible
13012471000006119	Suspected disease caused by Wuhan 2019-nCoV (novel coronavirus)	2809031000000116	Possible
13002301000006118	Swab for 2019-nCoV (novel coronavirus) taken by healthcare professional	2826961000000114	Tested
13045291000006118	Swab for SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) taken by healthcare professional	2826951000000111	Tested
13002551000006110	Taking of swab for 2019-nCoV (novel coronavirus)	2826271000000111	Tested
6604671000006111	Taking of swab for SARS-CoV-2 (severe	2826251000000119	Tested



	acute respiratory syndrome coronavirus 2)		
13045191000006110	Telephone consultation for suspected 2019 novel coronavirus	2808801000000111	Possible
13045131000006111	Telephone consultation for suspected 2019-nCoV (novel coronavirus)	2807691000000118	Possible
13053141000006115	Telephone consultation for suspected SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827261000000119	Possible
13045171000006114	Telephone consultation for suspected Wuhan 2019-nCoV (novel coronavirus)	2807711000000116	Possible
13045111000006117	Tested for 2019-nCoV (novel coronavirus) infection	12802191000006115	Tested
13045151000006116	Upper respiratory tract infection caused by 2019-nCoV (novel coronavirus)	2807971000000112	Diagnosis
13045211000006111	Upper respiratory tract infection caused by SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)	2827671000000112	Diagnosis
13032541000006119	Upper respiratory tract infection caused by Wuhan 2019-nCoV (novel coronavirus)	2807981000000114	Diagnosis
13032731000006119	Wuhan 2019-nCoV (novel coronavirus) detected	2808101000000118	Tested/ Diagnosis
13053121000006110	Wuhan 2019-nCoV (novel coronavirus) not detected	2808131000000112	Tested
13032691000006110	Wuhan 2019-nCoV (novel coronavirus) vaccination	2807831000000118	Vaccination
13032631000006111	Wuhan 2019-nCoV (novel coronavirus) vaccination invitation short message service text message sent	2809151000000112	Vaccination
13032791000006115	Wuhan 2019-nCov (novel coronavirus) serology	2808571000000117	Tested
13032501000006116	[X]Coronavirus infection, unspecified	287060018	Diagnosis
13032561000006115	[X]Coronavirus/cause/diseases classified to other chapters	287060018	Diagnosis