Report 11 Audit of ED COVID-19 Coding

Ву

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Version 3.1

Table of Contents

| 1 | Data | ı source & preparation | 4 |
|---|-------|-----------------------------------|----|
| | 1.1 | Clinical Diagnostic Coding | 4 |
| 2 | Back | ground | 4 |
| | 2.1 | Diagnostic field entries | 5 |
| 3 | Refe | rence framework | 6 |
| | 3.1 | Supporting diagnoses | 6 |
| | 3.2 | Chief Complaint | 8 |
| | 3.3 | Cross reference procedure | 8 |
| 4 | Preli | minary Analyses | 9 |
| | 4.1 | Symptomatic vs Asymptomatic COVID | 10 |
| 5 | The | implication | 11 |
| 6 | Sum | mary of key points | 11 |
| 7 | Decl | aration of Interests | 13 |
| 8 | App | endix – SvsFile Information | 14 |

Table of Figures

| FIGURE 1. SCREENSHOT OF XXXX 20210101 | ToDate.txt after sort & filter | 6 |
|--|--------------------------------|---|
| I IGUNE I. SCREENSHUT OF AAAA 20210101 | IODATE.TAT AFTER SORT & FILTER | v |

List of Tables

| TABLE 1: ED DIAGNOSIS LISTING FOR DX_RESP | 7 |
|--|----|
| Table 2: ED diagnosis listing for Dx_COMP | |
| Table 3: Chief complaint listing likely relevant to COVID | |
| | |
| Table 4: Crosstabulation of compatible complaint & marker diagnostic | |
| Table 5: Crosstabulation of compatible complaint & respiratory diagnosis | 9 |
| Table 6: COVID-19 designation | 10 |
| Table 7: COVID-19 audit results | 10 |

1 Data source & preparation

On 23^{rd} June 2021 I was given access to a substantial TXT file (22MB) held on a shared Google drive entitled XXXX_20210101_ToDate.txt¹, this being a dump of electronic records of admissions for the period 1^{st} January 2021 – 13^{th} June 2021 for an unknown NHS Trust. When imported into Excel this consisted of 161,495 rows with the following headings ranging from columns A to L:

Arrival_Date, Age_at_CDS_Activity_Date, FirstJabDate, SecondJabDate, Within28d_FirstJab, Within28d_SecondJab, Chief_Complaint, Diag1, Diag2, Diag3, Diag4, Discharge_Dest

All variables were extracted from the file for the purpose of recoding and analysis. A coding frame may be found in the appendix.

1.1 Clinical Diagnostic Coding

The four 'Diag' fields contained non-ICD10 diagnostic text in strings up to 80 characters long. The automatic recode feature of IBM SPSS was utilised to generate a common-coded listing in alphanumeric order resulting in 867 unique entries covering all admission diagnoses made. Excel's string search function was then utilised to flag records for key conditions relating to COVID-19 including all respiratory diagnoses, all cardiac diagnoses, thrombocytopenia, intravascular coagulation, thrombosis, pulmonary embolism and intracranial haemorrhage – a full listing of diagnoses may be found in section 3.1.

Primary indicator variables (0=absence; 1=presence) for categories of diagnoses made across all four diagnostic fields were established to facilitate statistical analysis. Cases were indexed and time delays from first and second dosing to admission were recalculated from scratch.

2 Background

In table 3 of report 8 – *Vaccination Status & Incidence of COVID-19* we observed some 38.2% of COVID-19 admissions being discharged back home; a finding that was deemed 'striking'. In section 3.1 of report 7 – *Mortality Analysis* we observed lack of a correlation between certain diagnoses of

¹ Filename has been partly anonymised.

interest² and onset of the pandemic as well as complete lack of mention of hypoxia in any of the 51,290 records of deceased patients. In section 3.2 of report 7 we observed lack of a correlation between certain clinical markers of COVID-19² and incidence of the disease. In section 3.3 of report 7 we observed lack of a correlation between the combination of four indicator variables (**Dx_PERI**, **Dx_AMI**, **Dx_CLOT**, **Dx_BLOOD**) spanning a range of 29 relevant diagnoses and onset of the pandemic, with the conclusion that this was "yet another curious result that does not fall in line with expectation".

In table 4 of report 7 we observed a crosstabulation of 26 combined diagnoses of concern against COVID designation with the finding that non-COVID deaths were associated with a higher rate for diagnoses attributed to severe SARS-COV-2 infection (7.9%) than COVID-19 designated deaths; this difference being highly statistically significant (comparison of proportions: chi-square = 53.51, 1df, p<0.001). I ended the section by stating...

'This is quite an extraordinary situation. Instead of replicating the results of Barda et al I am forced to conclude that well-established diagnoses of concern — a list of some 26 diagnoses - did not feature among deaths designated as COVID-19 by the NHS Trust concerned. Just how are they going about coding COVID-19 deaths, and all COVID cases for that matter? Precious little makes sense.'

...before revealing lack of correspondence between incidence of respiratory failure, deep vein thrombosis and intracranial haemorrhage with onset of the pandemic in sections 3.3.1 and 3.3.2 of the same report.

These observations prompted me to answer my own question and take a look at the raw diagnostic field data held within XXXX_20210101_ToDate.txt.

2.1 Diagnostic field entries

The 161,494 emergency department admissions records of XXXX_20210101_ToDate.txt were sorted in alphanumeric order by the field Chief_Complaint, with a filter applied to the field Diag1 to display all records with the text entry 'Disease caused by 2019 novel coronavirus'. A screenshot of the first 23 entries in the sorted and filtered spreadsheet in this manner is provided as Figure 1

² Idiopathic thrombocytopenic purpura; disseminated intravascular coagulation; respiratory failure

1 SEQ ▼ Chief_Complaint ▼ Diag1 ▼ Diag4 38323 735 AP - Abdominal pain Disease caused by 2019 novel coronavirus
877 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38324 38325 878 AP - Abdominal pain Disease caused by 2019 novel coronavirus 2440 AP - Abdominal pain Disease caused by 2019 novel coronavirus
2441 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38327 38328 4217 AP - Abdominal pain Disease caused by 2019 novel coronavirus 5942 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38329 38330 5943 AP - Abdominal pain Disease caused by 2019 novel coronavirus 8116 AP - Abdominal pain Disease caused by 2019 novel coronavirus 8856 AP - Abdominal pain Disease caused by 2019 novel coronavirus Disease caused by 2019 novel coronavirus Infectious gastroenteritis (disorder) 38332 38333 9771 AP - Abdominal pain Disease caused by 2019 novel coronavirus Gastritis (disorder) 38334 11289 AP - Abdominal pain Disease caused by 2019 novel coronavirus Infectious gastroenteritis (disorder) 38335 13512 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38336 15120 AP - Abdominal pain Disease caused by 2019 novel coronavirus
38337 15796 AP - Abdominal pain Disease caused by 2019 novel coronavirus Cellulitis (disorder) 38338 16579 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38339 16750 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38340 16751 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38341 18170 AP - Abdominal pain Disease caused by 2019 novel coronavirus
38342 18289 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38343 19726 AP - Abdominal pain Disease caused by 2019 novel coronavirus 19727 AP - Abdominal pain Disease caused by 2019 novel coronavirus 38345 20621 AP - Abdominal pain Disease caused by 2019 novel coronavirus Pyelonephritis (disorder)

Figure 1: Screenshot of XXXX_20210101_ToDate.txt after sort & filter

We observe 23 instances of admissions reporting abdominal pain, with four diagnoses made of Infectious gastroenteritis, Gastritis, Infectious gastroenteritis, Cellulitis and Pyelonephritis. To say this came as a shock is an understatement. The screenshot was shared with a trusted general practitioner and our conclusion was that we are looking at instances of positive test results that have no inherent clinical meaning – either these cases were asymptomatic admissions for non-COVID reasons or the results were false positives. Concerned by these findings I decided to establish a method of determining declared COVID admissions with supporting diagnostic evidence as opposed to COVID admissions with no supporting evidence.

3 Reference framework

3.1 Supporting diagnoses

COVID-19 is primarily held to be a respiratory disease and thus all respiratory and related diagnoses made within XXXX_20210101_ToDate.txt were tagged using the indicator Dx_RESP (Table 1). However, there are certain acknowledged and most particular conditions arising from severe SARS-

COV-2 infection that also serve as useful clinical markers3, thus a secondary indicator (Dx_COMP) was established regarding elevated incidence of myocarditis, pericarditis, arrhythmia, deep-vein thrombosis, pulmonary embolism, myocardial infarction, intracranial haemorrhage, and thrombocytopenia (Table 2).

Between them these two indicator variables were considered as providing supporting diagnostic evidence of a genuine SARS-COV-2 infection leading to COVID-19 with sufficient symptomatic severity as to warrant ED admission.

Table 1: ED diagnosis listing for Dx_RESP

Aspiration pneumonia (disorder)
Lobar pneumonia (disorder)
Lower respiratory tract infection (disorder)
Pneumonia
Respiratory arrest
Respiratory failure without hypercapnia (disorder)
Type II respiratory failure
Upper respiratory infection
Viral wheeze (disorder)

Table 2: ED diagnosis listing for Dx_COMP

Acute non-ST segment elevation myocardial infarction

Acute ST segment elevation myocardial infarction

Myocarditis

Acute ST segment elevation myocardial infarction

Myocarditis

Atrial fibrillation PE - Pulmonary embolism

Blood coagulation disorder Pericarditis

Bradycardia Postural orthostatic tachycardia syndrome
Cardiac arrest Preinfarction syndrome
Cerebral haemorrhage Premature beats

CVA - Cerebrovascular accident

Deep venous thrombosis

Endocarditis

Subarachnoid haemorrhage
Supraventricular tachycardia
Thrombocytopenic disorder

Henoch-Schonlein purpura Ventricular pre-excitation Idiopathic thrombocytopenic purpura Ventricular tachycardia

³ Barda et al. Safety of the BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Setting, NEJM August 25, 2021. DOI: 10.1056/NEJMoa2110475

3.2 Chief Complaint

There remains the issue of the chief complaint. The 161,494 emergency department admissions records within XXXX_20210101_ToDate.txt yielded a total of 140 unique complaints ranging from 'Abrasion' to 'Wound Care (procedure)'. These were assessed for likely relevance to SARS-COV-2 infection/COVID-19. The resulting complaint shortlist of 26 entries is given as Table 3. The indicator variable **COVcomp** was established to assist with record identification.

Table 3: Chief complaint listing likely relevant to COVID

Asthenia

Backache (finding)

Cardiac arrest (disorder)

Cardiac arrest due to trauma

Chest pain (finding)

Clouding of consciousness

Cough (finding)

Crying infant

Cyanosis (finding)

Difficulty breathing (finding)

Dizziness (finding)

Dyspnea

Fever (finding)

Headache

Hemoptysis

Hiccoughs

Hospital admission, emergency, direct (procedure)

Loss of appetite (finding)

Loss of sensation

Nasal congestion

Pale complexion

Palpitations (finding)

Respiratory arrest Sore throat symptom

Spontaneous bruising (disorder)

Stridor

3.3 Cross reference procedure

The three indicator variables **Dx_RESP**, **Dx_COMP** and **COVcomp** were used to flag all admission records whose chief complaint matched the listing of Table 3 and whose diagnostic entries matched the listing indicated by **Dx_RESP** or **Dx_COMP**. The objective here was to throw the clinical 'net' as wide as possible to capture all admissions that were presenting with conditions commensurate with *symptomatic* COVID-19 and development of the disease.

4 Preliminary Analyses

A total of 42,238 admissions amongst 161,494 were assessed as presenting with a chief complaint compatible with symptomatic COVID-19 (26.2%) over the period 1^{st} January -13^{th} June 2021. In comparison some 6,055 (3.7%) were assessed as exhibiting one or more diagnostic markers of SARS-COV-2 infection and 5,339 (3.3%) were found to be exhibiting a respiratory diagnosis.

A crosstabulation of COVID-compatible chief complaint by SARS-COV-2 marker diagnosis is given in Table 4, where we find 4,190/161,494 admissions meeting both criteria (2.6%). This may be compared to the Crosstabulation in Table 5, where we find 4,525/161,494 admissions for a COVID-compatible chief complaint backed by respiratory conditions (2.8%).

Table 4: Crosstabulation of compatible complaint & marker diagnostic

COVID compatible complaint * SARS-COV-2 marker Crosstabulation

| Count | | | | |
|------------------|-----|--------|------|--------|
| | | | | |
| | | No | Yes | Total |
| COVID compatible | No | 117391 | 1865 | 119256 |
| complaint | Yes | 38048 | 4190 | 42238 |
| Total | | 155439 | 6055 | 161494 |

Table 5: Crosstabulation of compatible complaint & respiratory diagnosis

COVID compatible complaint * Respiratory Crosstabulation

| Count | | | | |
|------------------|-----|--------|------|--------|
| | | | | |
| | | No | Yes | Total |
| COVID compatible | No | 118442 | 814 | 119256 |
| complaint | Yes | 37713 | 4525 | 42238 |
| Total | | 156155 | 5339 | 161494 |

4.1 Symptomatic vs Asymptomatic COVID

The total number of those presenting with a relevant respiratory diagnosis and a relevant SARS-COV-2 diagnostic marker was 125 (0.08%). A tabulation of audited COVID status is given in Table 6, where we find no supporting diagnostic evidence for 16.0% of declared COVID admissions and only a relevant chief complaint with no supporting relevant diagnosis for 74.3% of declared COVID admissions. When taken together we thus find 90.3% of declared COVID admissions to be totally lacking any reasonable supporting diagnosis.

Table 6: COVID-19 designation

COVID status

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|------------------------------------|-----------|---------|---------------|-----------------------|
| Valid | No supporting evidence | 337 | .2 | 16.0 | 16.0 |
| | Relevant complaint | 1561 | 1.0 | 74.3 | 90.3 |
| | Complaint + respiratory Dx | 195 | .1 | 9.3 | 99.6 |
| | Complaint + respiratory + other Dx | 9 | .0 | .4 | 100.0 |
| | Total | 2102 | 1.3 | 100.0 | |
| Missing | Not COVID | 159392 | 98.7 | | |
| Total | | 161494 | 100.0 | | |

Only 9.7% (204/2,102) of declared COVID admissions arrive with a relevant complaint and at least one relevant respiratory diagnosis. The full complement of a relevant chief complaint, a respiratory diagnosis and an additional diagnosis acknowledged to be associated with SARS-COV-2 infection is observed in only 0.4% of declared COVID admissions. If we take relevant chief complaint with a supporting respiratory diagnosis as the basis for COVID-19 validation we arrive at Table 7, in which we discover only 9.7% (202/2,102) of declared COVID cases upon admission actually exhibit the fundamental basis for the symptomatic disease.

Table 7: COVID-19 audit results

COVID status * Admission COVID Crosstabulation

| Count | | | | |
|--------------|--------------|-----------|----------|--------|
| | | | | |
| | | Not COVID | COVID-19 | Total |
| COVID status | Not COVID | 159392 | 0 | 159392 |
| | Asymptomatic | 0 | 1898 | 1898 |
| | Symptomatic | 0 | 204 | 204 |
| Total | | 159392 | 2102 | 161494 |

5 The implication

To date 10 reports have been written totalling 60,799 words of analysis made on 102k electronic records of deceased patients and 898k emergency department admission records. Many conclusions have been drawn from 117 figures and 82 tables. All this work has been based on the assumption that NHS Trusts have been coding incidence of COVID-19 in a diligent manner backed by clinical diagnosis. It is abundantly clear this is not the case and that the electronic patient record system is awash with asymptomatic/false positive admissions requiring care for other diseases and conditions whilst their data record is flagged as 'COVID'.

This dilution of the true clinical picture explains the peculiar results from various analyses undertaken. In effect I've been analysing 90% worth of asymptomatic/false positive admission and death expecting this to yield a sensible story about COVID.

6 Summary of key points

This report contains the results of an investigation of 161,494 admission records for an unknown NHS Trust for the period 1st January 2021 to 13th June 2021 by a former data analyst, Clinical Data Manager and head of Clinical Audit at a busy NHS teaching hospital. Key results of interest are summarised as follows:

- In previous reports in this series certain peculiarities have been noted regarding the lack of
 correlation between the onset of the pandemic and certain diagnoses associated with severe SARSCOV-2 infection and development of COVID-19. Both COVID designated deaths and emergency
 department admissions failed to abide by expectation in terms of outcome and clinical diagnosis. This
 prompted an audit of 161,494 electronic patient records for admissions to an emergency department.
- 2. Initial investigation revealed a number of records with the coding 'Disease caused by 2019 novel coronavirus' that had presented for unrelated complaints (e.g. abdominal pain/gastroenteritis) with no supporting diagnosis for COVID-19. A methodology was thus derived whereby ED respiratory diagnoses and diagnoses with known association with SARS-COV-2 infection were combined with a compatible range of complaints made at presentation. The objective was to throw the clinical 'net' as wide as possible to capture all admissions that were presenting with conditions commensurate with symptomatic COVID-19 and development of the disease.

- 3. A total of 42,238 admissions amongst 161,494 were assessed as presenting with a chief complaint compatible with symptomatic COVID-19 (26.2%) over the period 1st January 13th June 2021. In comparison some 6,055 (3.7%) were assessed as exhibiting one or more diagnostic markers of SARS-COV-2 infection and 5,339 (3.3%) were found to be exhibiting a respiratory diagnosis.
- 4. 4,190/161,494 admissions met the criterion of a COVID-compatible chief complaint backed by a SARS-COV-2 marker diagnosis (2.6%), whereas 4,535/161,494 admissions met the criterion of a COVID-compatible chief complaint backed by a respiratory diagnosis (2.8%). The total number of admissions presenting with a relevant respiratory diagnosis and a SARS-COV-2 diagnostic marker was 125 (0.08%).
- 5. A crosstabulation of COVID-compatible symptomatic admission against declared COVID status revealed some 90.3% of all admissions tagged with the emergency department identifier 'Disease caused by 2019 novel coronavirus' were devoid of supporting diagnoses. It is assumed these were either asymptomatic cases requiring the department for non-COVID reasons or the result of false positive tests flagging non-COVID admissions as COVID-19.
- 6. By adopting an audit criterion of a relevant chief complaint with a supporting respiratory diagnosis as the basis for COVID-19 validation we discover only 9.7% (204/2,102) of declared COVID cases actually exhibited the fundamental basis for symptomatic disease between 1st January and 13th June 2021.
- 7. It was concluded that that the ED electronic patient record system is awash with asymptomatic/false positive admissions that primarily require emergency care for non-COVID diseases and conditions whilst their data record is flagged as 'COVID'. This dilution of the true clinical picture explains the peculiar 'non-results' from various analyses undertaken and seriously undermines any and all study of the evidence base.

7 Declaration of Interests

The author declares that they have no competing interests. This study has been entirely self-funded and self-directed and is presented as the author's own original work. John Dee is a pen name owing to the sensitivities involved but my CV, biography and published papers can be made available to any bone fide interested party.

8 Appendix – SysFile Information

| | | Variable Information | | |
|------------------|----------|---------------------------------|-------------------|----------------|
| Variable | Position | Label | Measurement Level | Missing Values |
| Date | 2 | Arrival date | Scale | |
| Targetpopulation | 7 | Target Population | Nominal | 9 |
| period | 8 | Analysis period | Nominal | |
| Age | 9 | Age | Scale | |
| Ageband7 | 16 | Age band | Nominal | |
| Status | 23 | Vaccination status | Nominal | |
| Dose | 24 | Vaccination dose | Nominal | |
| Timing | 25 | Event sequence | Nominal | |
| When | 26 | Event sequence | Nominal | |
| VaxStatus | 27 | Vaccination status at admission | Nominal | |
| Discharge | 36 | Discharge Destination | Nominal | 1 |
| Discharge6 | 37 | Destination | Nominal | |
| Discharge4 | 38 | Destination | Nominal | |
| Discharge3 | 39 | Destination | Nominal | |
| Discharge2 | 40 | Destination | Nominal | |
| Complaint | 41 | Chief Complaint | Nominal | 141 |
| Dx_COVID | 42 | COVID-19 Dx | Nominal | |
| Dx_COMP | 43 | SARS-COV-2 marker Dx | Nominal | |
| Dx RESP | 44 | Respiratory Dx | Nominal | |
| Dx NCRESP | 45 | Non-COVID respiratory Dx | Nominal | |
| Dx AMI | 46 | AMI/arrhythmia | Nominal | |
| Dx_Peri | 47 | Pericarditis/Myocarditis | Nominal | |
| Dx DVthromb | 48 | Deep Vein Thrombosis | Nominal | |
| Dx IChem | 49 | Cranial hemorhrage | Nominal | |
| Dx PulEmb | 50 | Pulmonary Embolism | Nominal | |
| Dx ITP | 51 | Thrombocytopenia | Nominal | |
| Dx DIC | 52 | Coagulation disorder | Nominal | |
| Dx ITPDIC | 53 | ITP/DIC | Nominal | |
| Dx Blood | 54 | Clotting/haemorrhage | Nominal | |
| Dx_Complications | 55 | SARS-COV 2 complications | Nominal | |
| Dx GEN | 56 | Chronic health indicator | Nominal | |
| Dx Chronic | 57 | Chronic diseases | Nominal | |
| Dx Flu | 58 | Influenza | Nominal | |
| Dx_Hyper | 61 | Hypertension | Nominal | |
| Dx Diabetes | 62 | Diabetes | Nominal | |
| FAC1 1 | 69 | Factor1: Volume | Scale | |
| FAC2 1 | 70 | Factor2: Severity | Scale | |
| FAC3 1 | 71 | Factor3: General bed use | Scale | |
| COVcomp | 91 | COVID compatible complaint | Nominal | |
| SympCOV | 92 | Symptomatic COVID | Nominal | |
| COVstatus | 93 | COVID designation status | Nominal | |

| | | Variable Values | | | |
|------------------|----|---------------------------------------|------------------|---|--------------|
| Value | | Label | Value | | Label |
| Targetpopulation | 0 | <18 years | Discharge6 | 1 | Mortuary |
| | 1 | 18+ years | | 2 | ICU/HDU |
| | 9 | Unknown | | 3 | Ward |
| Ageband7 | 1 | <30 years | | 4 | CCU |
| | 2 | 30 - 39 years | | 5 | Other |
| | 3 | 40 - 49 years | | 6 | Home |
| | 4 | 50 - 59 years | Discharge4 | 1 | Mortuary |
| | 5 | 60 - 69 years | | 2 | ICU/HDU |
| | 6 | 70 - 79 years | | 3 | Ward/Other |
| | 7 | 80+ years | | 4 | Home |
| Status | 0 | Unvaccinated | Discharge3 | 1 | ICU/HDU |
| | 1 | Vaccinated | | 2 | Ward/Other |
| Dose | 0 | Unvaccinated | | 3 | Home |
| | 1 | Dose 1 only | Discharge2 | 1 | Hospitalised |
| | 2 | Dose 2 | | 2 | Discharged |
| Timing | 0 | Not vaccinated | Dx_COVID | 0 | No |
| | 1 | Admitted prior to dose 1 | | 1 | Yes |
| | 2 | Admitted after dose 1 only | Dx_COMP | 0 | No |
| | 3 | Admitted between doses | | 1 | Yes |
| | 4 | Admitted after dose 2 | Dx_RESP | 0 | No |
| When | 0 | Not vaccinated | | 1 | Yes |
| | 1 | Admitted prior to dose 1 | Dx_NCRESP | 0 | No |
| | 2 | Admitted after 1st dose | | 1 | Yes |
| | 3 | Admitted after dose 2 | Dx AMI | 0 | No |
| VaxStatus | 0 | Unvaccinated | _ | 1 | Yes |
| | 1 | Vaccinated | Dx Peri | 0 | Absent |
| Discharge | 1 | Unknown | | 1 | Present |
| | 2 | A&E discharge to CCU | Dx_DVthromb | 0 | No |
| | 3 | A&E discharge to ICU | _ | 1 | Yes |
| | 4 | Admission to the mortuary | Dx_IChem | 0 | No |
| | 5 | Discharge home | _ | 1 | Yes |
| | 6 | Discharge to hospital at home service | Dx PulEmb | 0 | No |
| | 7 | Discharge to nursing home | _ | 1 | Yes |
| | 8 | Discharge to police custody | Dx ITP | 0 | Absent |
| | 9 | Discharge to residential home | _ | 1 | Present |
| | 10 | Discharge to ward | Dx DIC | 0 | No |
| | 11 | ED discharge to ambulatory ECS | _ | 1 | Yes |
| | 12 | ED discharge to ED short stay ward | Dx_Complications | 0 | Absent |
| | 13 | ED discharge to HDU | | 1 | Present |
| | 14 | ED discharge to neonatal ICU | Dx GEN | 0 | Good |
| | 15 | ED discharge to SCBU | | 1 | Poor |
| | 16 | Patient discharge to legal custody | Dx Chronic | 0 | No |
| | 17 | Patient transfer to other facility | 2 | 1 | Yes |
| COVcomp | 0 | No | Dx Flu | 0 | No |
| | 1 | Yes | 2 | 1 | Yes |
| SympCOV | 0 | No | Dx_Hyper | 0 | Absent |
| 7 | 1 | Yes | 27_11760 | 1 | Present |
| COVstatus | 0 | Not COVID | Dx_Diabetes | 0 | Absent |
| - Total (d) | 1 | Test result only | DA_DIADCICS | 1 | Present |
| | | I COL I COUIL OTHY | | _ | i i Cociit |