

## Data Dictionary Codebook

16/01/2023 11:40am

#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)																																																														
Instrument: <b>Australian Cardiovascular Covid19 Database</b> (australian_cardiovascular_covid19_database)																																																																	
1	[record_id]	Record ID	text																																																														
2	[study_site]	Section Header: <i>General information</i> Study site	radio, Required <table><tr><td>1</td><td>Royal North Shore Hospital</td></tr><tr><td>2</td><td>Westmead Hospital</td></tr><tr><td>3</td><td>Concord Repatriation General Hospital</td></tr><tr><td>4</td><td>Monash Medical Centre</td></tr><tr><td>5</td><td>Finders Medical Centre</td></tr><tr><td>6</td><td>John Hunter Hospital</td></tr><tr><td>7</td><td>Prince of Wales Hospital</td></tr><tr><td>8</td><td>St Vincent's Hospital Melbourne</td></tr><tr><td>9</td><td>Liverpool Hospital</td></tr><tr><td>10</td><td>Royal Perth Hospital</td></tr><tr><td>11</td><td>North Shore Private Hospital</td></tr><tr><td>12</td><td>Lake Macquarie Private Hospital</td></tr><tr><td>13</td><td>Lismore Base Hospital</td></tr><tr><td>14</td><td>Nepean Hospital</td></tr><tr><td>15</td><td>Royal Prince Alfred Hospital</td></tr><tr><td>16</td><td>St Vincent's Hospital Sydney</td></tr><tr><td>17</td><td>Wollongong Hospital</td></tr><tr><td>18</td><td>The Alfred Hospital</td></tr><tr><td>19</td><td>Northern Hospital</td></tr><tr><td>20</td><td>Princess Alexandra Hospital</td></tr><tr><td>21</td><td>Royal Brisbane and Women's Hospital</td></tr><tr><td>22</td><td>The Prince Charles Hospital</td></tr><tr><td>23</td><td>Royal Adelaide Hospital</td></tr><tr><td>24</td><td>Epworth Healthcare</td></tr><tr><td>25</td><td>Ryde Hospital</td></tr><tr><td>26</td><td>Hornsby Hospital</td></tr><tr><td>27</td><td>Tamworth Hospital</td></tr><tr><td>28</td><td>Belmont Hospital</td></tr><tr><td>29</td><td>Fiona Stanley Hospital</td></tr><tr><td>30</td><td>Sir Charles Gairdner Hospital</td></tr><tr><td>31</td><td>Royal Melbourne Hospital</td></tr></table>	1	Royal North Shore Hospital	2	Westmead Hospital	3	Concord Repatriation General Hospital	4	Monash Medical Centre	5	Finders Medical Centre	6	John Hunter Hospital	7	Prince of Wales Hospital	8	St Vincent's Hospital Melbourne	9	Liverpool Hospital	10	Royal Perth Hospital	11	North Shore Private Hospital	12	Lake Macquarie Private Hospital	13	Lismore Base Hospital	14	Nepean Hospital	15	Royal Prince Alfred Hospital	16	St Vincent's Hospital Sydney	17	Wollongong Hospital	18	The Alfred Hospital	19	Northern Hospital	20	Princess Alexandra Hospital	21	Royal Brisbane and Women's Hospital	22	The Prince Charles Hospital	23	Royal Adelaide Hospital	24	Epworth Healthcare	25	Ryde Hospital	26	Hornsby Hospital	27	Tamworth Hospital	28	Belmont Hospital	29	Fiona Stanley Hospital	30	Sir Charles Gairdner Hospital	31	Royal Melbourne Hospital
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3	[age]	Section Header: <i>Demographics</i> Age at time of admission (years)	text (number, Min: 18, Max: 130), Required, Identifier																																																														
4	[sex]	Sex	radio, Required <table><tr><td>1</td><td>Male</td></tr><tr><td>2</td><td>Female</td></tr></table>	1	Male	2	Female																																																										
1	Male																																																																
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5	[healthcare_worker]	Currently employed as a healthcare worker?	radio, Required, Identifier <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No																																																										
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6	[nursing_home]	Admitted from nursing home?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No																																																										
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2	No																																																																

7	[past_medical_history]	Section Header: Past Medical History Past medical history available?	radio, Required 1 Yes 2 No
8	[coronary_artery_disease] Show the field ONLY if: [past_medical_history]="1"	Coronary artery disease (prior MI, PCI, CABG, >50% stenosis of an epicardial vessel on CTCA or invasive angiography, angina)	radio, Required 1 Yes 2 No
9	[heart_failure_cardiomyopathy] Show the field ONLY if: [past_medical_history]="1"	Heart failure or cardiomyopathy	radio, Required 1 Yes 2 No
10	[af_flutter] Show the field ONLY if: [past_medical_history]="1"	Atrial fibrillation or flutter	radio, Required 1 Yes 2 No
11	[ppm_icd] Show the field ONLY if: [past_medical_history]="1"	PPM/ICD	radio, Required 1 No 2 Single chamber pacemaker 3 Dual chamber pacemaker 4 Biventricular pacemaker 5 Single chamber implantable cardioverter-defibrillator 6 Dual chamber implantable cardioverter-defibrillator 7 Biventricular implantable cardioverter-defibrillator 8 Unknown device
12	[severe_valvular_disease] Show the field ONLY if: [past_medical_history]="1"	Severe valvular disease	radio, Required 1 Yes 2 No
13	[stroke_tia] Show the field ONLY if: [past_medical_history]="1"	Stroke or TIA	radio, Required 1 Yes 2 No
14	[hypertension] Show the field ONLY if: [past_medical_history]="1"	Hypertension	radio, Required 1 Yes 2 No
15	[hypercholesterolemia] Show the field ONLY if: [past_medical_history]="1"	Hypercholesterolemia	radio, Required 1 Yes 2 No
16	[diabetes] Show the field ONLY if: [past_medical_history]="1"	Diabetes mellitus	radio, Required 1 Yes 2 No
17	[pad] Show the field ONLY if: [past_medical_history]="1"	Peripheral arterial disease	radio, Required 1 Yes 2 No
18	[smoker] Show the field ONLY if: [past_medical_history]="1"	Current or recent smoker (< 1 year)	radio, Required 1 Yes 2 No
19	[copd] Show the field ONLY if: [past_medical_history]="1"	COPD	radio, Required 1 Yes 2 No
20	[asthma] Show the field ONLY if: [past_medical_history]="1"	Asthma	radio, Required 1 Yes 2 No

21	[ckd] Show the field ONLY if: [past_medical_history]="1"	Chronic kidney disease (eGFR< 60) [Note: there must be a previous diagnosis, cannot use admission bloods]	radio, Required 1 Yes 2 No
22	[dialysis] Show the field ONLY if: [past_medical_history]="1"	Dialysis	radio, Required 1 Yes - still receiving dialysis 2 Yes - was previously on dialysis, however is no longer on dialysis (e.g. renal transplant) 3 No
23	[vaccination_status]	COVID-19 Vaccination Status	radio, Required 1 Unknown 2 Single Dose 3 Two Doses 4 Three or More Doses 5 Unvaccinated
24	[vaccine_type]	COVID-19 Vaccine Type <i>Multiple vaccines can be selected</i>	checkbox 1 vaccine_type__1 Unknown 2 vaccine_type__2 Vaxzevria (AstraZeneca) 3 vaccine_type__3 Comirnaty (Pfizer) 4 vaccine_type__4 Spikevax (Moderna)
25	[medication_list]	Section Header: Regular (NOT PRN) Medications PRIOR to Admission Medication list available?	radio, Required 1 Yes 2 No
26	[acei] Show the field ONLY if: [medication_list]=1	ACE inhibitor (e.g. ramipril)	radio, Required 1 Yes 2 No
27	[arb] Show the field ONLY if: [medication_list]=1	Angiotensin receptor blocker (e.g. candesartan)	radio, Required 1 Yes 2 No
28	[mra] Show the field ONLY if: [medication_list]=1	Mineralocorticoid receptor antagonist (e.g. spironolactone)	radio, Required 1 Yes 2 No
29	[arni] Show the field ONLY if: [medication_list]=1	Angiotensin receptor-neprilysin inhibitor (e.g. sacubitril/valsartan)	radio, Required 1 Yes 2 No
30	[loop_diuretic] Show the field ONLY if: [medication_list]=1	Loop diuretic (e.g. frusemide)	radio, Required 1 Yes 2 No
31	[thiazide_diuretic] Show the field ONLY if: [medication_list]=1	Thiazide diuretic (e.g. hydrochlorothiazide)	radio, Required 1 Yes 2 No
32	[beta_blocker] Show the field ONLY if: [medication_list]=1	Beta blocker (e.g. bisoprolol)	radio, Required 1 Yes 2 No
33	[nd_ccb] Show the field ONLY if: [medication_list]=1	Non-dihydropyridine calcium channel blocker (e.g. diltiazem)	radio, Required 1 Yes 2 No
34	[d_ccb] Show the field ONLY if: [medication_list]=1	Dihydropyridine calcium channel blocker (e.g. amlodipine)	radio, Required 1 Yes 2 No
35	[digoxin] Show the field ONLY if: [medication_list]=1	Digoxin	radio, Required 1 Yes 2 No

36	[ flecainide ] Show the field ONLY if: [medication_list]=1	Flecainide	radio, Required 1 Yes 2 No
37	[ amiodarone ] Show the field ONLY if: [medication_list]=1	Amiodarone	radio, Required 1 Yes 2 No
38	[ statin ] Show the field ONLY if: [medication_list]=1	Statin (e.g. atorvastatin)	radio, Required 1 Yes 2 No
39	[ ezetimibe ] Show the field ONLY if: [medication_list]=1	Ezetimibe	radio, Required 1 Yes 2 No
40	[ aspirin ] Show the field ONLY if: [medication_list]=1	Aspirin	radio, Required 1 Yes 2 No
41	[ nsaid ] Show the field ONLY if: [medication_list]=1	NSAID (excluding aspirin)	radio, Required 1 Yes 2 No
42	[ p2y12_inhibitor ] Show the field ONLY if: [medication_list]=1	P2Y12 inhibitor (e.g. clopidogrel)	radio, Required 1 Yes 2 No
43	[ warfarin ] Show the field ONLY if: [medication_list]=1	Warfarin	radio, Required 1 Yes 2 No
44	[ noac ] Show the field ONLY if: [medication_list]=1	NOAC (e.g. apixaban)	radio, Required 1 Yes 2 No
45	[ clexane ] Show the field ONLY if: [medication_list]=1	Clexane	radio, Required 1 Yes 2 No
46	[ heparin ] Show the field ONLY if: [medication_list]=1	Heparin	radio, Required 1 Yes 2 No
47	[ nitrates ] Show the field ONLY if: [medication_list]=1	Nitrates (e.g. glyceryl trinitrate)	radio, Required 1 Yes 2 No
48	[ other_drugs ] Show the field ONLY if: [medication_list]=1	Other (names only, not doses and separate each drug with a comma)	notes
49	[ height ]	Section Header: Height and Weight. (Use the first height and weight recorded during the admission. If no height or weight was measured during the admission, you can leave these questions blank.) Height (cm)	text
50	[ weight ]	Weight (kg)	text
51	[ vitals ]	Section Header: Presentation (First set of available vitals from paramedics, triage, emergency department or ward. If specific vital values are not available, leave that field blank. For example, if the first set of vitals is on supplemental oxygen, then leave the field for 'SpO2 % on room air' blank, as that value is not available) Data source of first set of vitals	radio, Required 1 Paramedics 2 Triage 3 Emergency department 4 Ward 5 Not available
52	[ sbp ]	Systolic blood pressure (mmHg)	text (number)
53	[ dbp ]	Diastolic blood pressure (mmHg)	text (number)
54	[ heart_rate ]	Heart rate (beats per minute)	text (number)
55	[ respiratory_rate ]	Respiratory rate (breaths per minute)	text (number)

56	[temperature]	Temperature (degrees celsius)	text (number)												
57	[spo2]	SpO2 % on room air	text (number)												
58	[test_method]	Section Header: <i>Diagnosis - SARS-CoV-2 Test</i> SARS-CoV-2 Test methodology	checkbox, Required <table border="1"> <tr> <td>1</td> <td>test_method__1</td> <td>NAT (e.g. PCR or similar)</td> </tr> <tr> <td>2</td> <td>test_method__2</td> <td>Serology (antibody detection)</td> </tr> <tr> <td>3</td> <td>test_method__3</td> <td>Antigen detection (e.g. lateral flow)</td> </tr> <tr> <td>4</td> <td>test_method__4</td> <td>Other</td> </tr> </table>	1	test_method__1	NAT (e.g. PCR or similar)	2	test_method__2	Serology (antibody detection)	3	test_method__3	Antigen detection (e.g. lateral flow)	4	test_method__4	Other
1	test_method__1	NAT (e.g. PCR or similar)													
2	test_method__2	Serology (antibody detection)													
3	test_method__3	Antigen detection (e.g. lateral flow)													
4	test_method__4	Other													
59	[hospital_acquired_covid]	Section Header: <i>Hospital Acquired Infection</i> COVID-19 is suspected to have been hospital-acquired during this admission?	radio, Required <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </table>	1	Yes	2	No								
1	Yes														
2	No														
60	[fio2]	Section Header: <i>First arterial blood gas results (If no arterial blood gas was performed during the entire admission, leave this section blank. Please ensure that this is an arterial sample and NOT a venous sample. If there is not clear documentation that this is an arterial sample, leave this section blank.)</i> FIO2 (%)	text (number)												
61	[po2]	pO2 (mmHg)	text (number)												
62	[pco2]	pCO2 (mmHg)	text (number)												
63	[lactate_arterial]	Lactate (mmol/L)	text (number)												
64	[abg_timing]	Was this arterial blood gas performed within 24 hours of admission?	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </table>	1	Yes	2	No								
1	Yes														
2	No														
65	[crp]	Section Header: <i>Inflammatory markers within 24 hours of admission (Include the first value obtained within 24 hours of admission. Do NOT include results for samples taken after 24 hours of admission. If there are no results for samples collected within 24 hours of admission, leave the respective field blank.)</i> CRP (mg/L)	text (number)												
66	[lymphocytes]	Lymphocyte count (x10 <sup>9</sup> /L)	text (number)												
67	[total_wcc]	Total white cell count (x10 <sup>9</sup> /L)	text (number)												
68	[platelets]	Platelets (x10 <sup>9</sup> /L)	text												
69	[albumin]	Albumin (g/L)	text												
70	[ldh]	Lactate dehydrogenase / LDH (unit/L)	text (number)												
71	[d_dimer]	D-dimer (mg/L)	text (number)												
72	[procalcitonin]	Procalcitonin (ug/L)	text (number)												
73	[ferritin]	Ferritin (ug/L)	text (number)												
74	[haemoglobin]	Section Header: <i>Other Blood Results within 24 hours of admission (Include the first value obtained within 24 hours of admission. Do NOT include results for samples taken after 24 hours of admission. If there are no results for samples collected within 24 hours of admission, leave the respective field blank.)</i> Haemoglobin (g/L)	text (number)												
75	[egfr]	eGFR (mL/min/1.73m <sup>2</sup> )	text (number)												
76	[creatinine]	Creatinine (umol/L)	text (number)												
77	[alt]	ALT (unit/L)	text (number)												
78	[lactate_venous]	Lactate [venous] (mmol/L)	text (number)												
79	[hs_troponin_i]	High sensitivity troponin I (ng/L)	text (number)												
80	[hs_troponin_t]	High sensitivity troponin T (ng/L)	text (number)												
81	[troponin_i]	Troponin I (ng/L)	text (number)												
82	[troponin_t]	Troponin T (ng/L)	text (number)												
83	[poc_troponin_i]	Point-of-care troponin I (ug/L)	text (number)												
84	[poc_troponin_t]	Point-of-care troponin T (ug/L)	text (number)												
85	[vitamin_d]	Section Header: <i>Vitamin D Level</i> Vitamin D (nmol/L) <i>First Vitamin D level during admission (Leave blank if test not performed)</i>	text Field Annotation: Vitamin D												
86	[chest_xray]	Section Header: <i>First chest Xray during admission</i> Findings on first chest Xray performed anytime during the admission	radio, Required <table border="1"> <tr> <td>1</td> <td>No chest Xray performed during entire admission</td> </tr> <tr> <td>2</td> <td>Features of COVID-19 present</td> </tr> <tr> <td>3</td> <td>No features of COVID-19 present</td> </tr> </table>	1	No chest Xray performed during entire admission	2	Features of COVID-19 present	3	No features of COVID-19 present						
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2	Features of COVID-19 present														
3	No features of COVID-19 present														

87	[chest_xray_timing] Show the field ONLY if: [chest_xray]="2" or [chest_xray]="3"	Was this chest Xray performed within 24 hours admission?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No		
1	Yes								
2	No								
88	[chest_ct]	Section Header: <i>First chest CT during admission</i> Findings on first chest CT performed anytime during the admission	radio, Required <table border="1"> <tr><td>1</td><td>No chest CT performed during entire admission</td></tr> <tr><td>2</td><td>Features of COVID-19 present</td></tr> <tr><td>3</td><td>No features of COVID-19 present</td></tr> </table>	1	No chest CT performed during entire admission	2	Features of COVID-19 present	3	No features of COVID-19 present
1	No chest CT performed during entire admission								
2	Features of COVID-19 present								
3	No features of COVID-19 present								
89	[chest_ct_timing] Show the field ONLY if: [chest_ct]="2" or [chest_ct]="3"	Chest CT performed within 24 hours of admission?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No		
1	Yes								
2	No								
90	[antivirals]	Section Header: <i>Medications taken at anytime during admission</i> Any antiviral medications?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unknown (e.g. blinded placebo trial of antiviral medications)</td></tr> </table>	1	Yes	2	No	3	Unknown (e.g. blinded placebo trial of antiviral medications)
1	Yes								
2	No								
3	Unknown (e.g. blinded placebo trial of antiviral medications)								
91	[antibiotics]	Any antibiotic medications?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unknown (e.g. blinded placebo trial of antibiotic medications)</td></tr> </table>	1	Yes	2	No	3	Unknown (e.g. blinded placebo trial of antibiotic medications)
1	Yes								
2	No								
3	Unknown (e.g. blinded placebo trial of antibiotic medications)								
92	[azithromycin_2]	Any immunosuppressive medications? (e.g. steroids, methotrexate, infliximab, etc.)	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unknown (e.g. blinded placebo trial of immunosuppressive medications)</td></tr> </table>	1	Yes	2	No	3	Unknown (e.g. blinded placebo trial of immunosuppressive medications)
1	Yes								
2	No								
3	Unknown (e.g. blinded placebo trial of immunosuppressive medications)								
93	[hydroxychloroquine]	Hydroxychloroquine	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unknown (e.g. blinded placebo trial of hydroxychloroquine)</td></tr> </table>	1	Yes	2	No	3	Unknown (e.g. blinded placebo trial of hydroxychloroquine)
1	Yes								
2	No								
3	Unknown (e.g. blinded placebo trial of hydroxychloroquine)								
94	[azithromycin]	Azithromycin	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>3</td><td>Unknown (e.g. blinded placebo trial of azithromycin)</td></tr> </table>	1	Yes	2	No	3	Unknown (e.g. blinded placebo trial of azithromycin)
1	Yes								
2	No								
3	Unknown (e.g. blinded placebo trial of azithromycin)								
95	[troponin_available]	Section Header: <i>Cardiac complications Troponin (This section refers to troponin values throughout the entire admission)</i> Is there a troponin result available for this admission?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No		
1	Yes								
2	No								
96	[troponin_uln] Show the field ONLY if: [troponin_available]="1"	Any troponin above upper limit of normal?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No		
1	Yes								
2	No								
97	[highest_hs_troponin_i] Show the field ONLY if: [troponin_available]="1"	Highest high-sensitivity troponin I (ng/L)	text						
98	[lowest_hs_troponin_i] Show the field ONLY if: [troponin_available]="1"	Lowest high-sensitivity troponin I (ng/L)	text						
99	[highest_hs_troponin_t] Show the field ONLY if: [troponin_available]="1"	Highest high-sensitivity troponin T (ng/L)	text						
100	[lowest_hs_troponin_t] Show the field ONLY if: [troponin_available]="1"	Lowest high-sensitivity troponin T (ng/L)	text						

101	<div>[ <b>highest_troponin_i</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Highest Troponin I (ng/L)	text																											
102	<div>[ <b>lowest_troponin_i</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Lowest Troponin I (ng/L)	text																											
103	<div>[ <b>highest_troponin_t</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Highest Troponin T (ng/L)	text																											
104	<div>[ <b>lowest_troponin_t</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Lowest Troponin T (ng/L)	text																											
105	<div>[ <b>highest_poc_troponin_i</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Highest point-of-care troponin I (ng/L)	text																											
106	<div>[ <b>lowest_poc_troponin_i</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Lowest point-of-care troponin I (ng/L)	text																											
107	<div>[ <b>highest_poc_troponin_t</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Highest point-of-care troponin T (ng/L)	text																											
108	<div>[ <b>lowest_poc_troponin_t</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	Lowest point-of-care troponin T (ng/L)	text																											
109	<div>[ <b>elevated_troponin_cause</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	<div>Reason for troponin elevation?</div> <div>(Select all options that are applicable.)</div>	<div>checkbox</div> <table><tr><td>1</td><td>elevated_troponin_cause__1</td><td>STEMI</td></tr><tr><td>2</td><td>elevated_troponin_cause__2</td><td>Type 1 NSTEMI</td></tr><tr><td>3</td><td>elevated_troponin_cause__3</td><td>Type 2 NSTEMI</td></tr><tr><td>4</td><td>elevated_troponin_cause__4</td><td>Myocarditis</td></tr><tr><td>5</td><td>elevated_troponin_cause__5</td><td>Takotsubo cardiomyopathy</td></tr><tr><td>6</td><td>elevated_troponin_cause__6</td><td>Arrhythmia</td></tr><tr><td>7</td><td>elevated_troponin_cause__7</td><td>Pulmonary embolism</td></tr><tr><td>8</td><td>elevated_troponin_cause__8</td><td>Other cause that is not listed above</td></tr><tr><td>9</td><td>elevated_troponin_cause__9</td><td>No clear cause</td></tr></table>	1	elevated_troponin_cause__1	STEMI	2	elevated_troponin_cause__2	Type 1 NSTEMI	3	elevated_troponin_cause__3	Type 2 NSTEMI	4	elevated_troponin_cause__4	Myocarditis	5	elevated_troponin_cause__5	Takotsubo cardiomyopathy	6	elevated_troponin_cause__6	Arrhythmia	7	elevated_troponin_cause__7	Pulmonary embolism	8	elevated_troponin_cause__8	Other cause that is not listed above	9	elevated_troponin_cause__9	No clear cause
1	elevated_troponin_cause__1	STEMI																												
2	elevated_troponin_cause__2	Type 1 NSTEMI																												
3	elevated_troponin_cause__3	Type 2 NSTEMI																												
4	elevated_troponin_cause__4	Myocarditis																												
5	elevated_troponin_cause__5	Takotsubo cardiomyopathy																												
6	elevated_troponin_cause__6	Arrhythmia																												
7	elevated_troponin_cause__7	Pulmonary embolism																												
8	elevated_troponin_cause__8	Other cause that is not listed above																												
9	elevated_troponin_cause__9	No clear cause																												
110	<div>[ <b>trop_elev_other_reason</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	If the reason for troponin elevation was "other" please specify what that other reason was, with details.	notes																											
111	<div>[ <b>trop_uLn_ref</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	If any troponin was above the upper limit of normal, please specify what the upper limit of normal was (if there is more than one type of troponin then please specify the upper limit of normal for each type of troponin).	notes																											
112	<div>[ <b>stress_test</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	If any troponin was above the upper limit of normal, please specify if the patient had a cardiac stress test (e.g. stress ECG, stress echocardiogram, MIBI, stress MRI) and what the result was. [Note: if any troponin was above the upper limit of normal, but no stress test was performed, please answer: no stress test performed].	notes																											
113	<div>[ <b>chest_pain</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	If any troponin was above the upper limit of normal, was the troponin elevation accompanied by chest pain?	<div>yesno</div> <table><tr><td>1</td><td>Yes</td></tr><tr><td>0</td><td>No</td></tr></table>	1	Yes	0	No																							
1	Yes																													
0	No																													
114	<div>[ <b>ecg</b> ]</div> <div>Show the field ONLY if: [troponin_available]="1"</div>	<div>If any troponin was above the upper limit of normal, was the troponin elevation accompanied by ECG changes?</div> <div>(If YES please also list the changes e.g. diffuse ST elevation or dynamic ST segment depression in inferior leads etc.)</div>	notes																											

115	[stemi]	Section Header: <i>Myocardial infarction STEMI</i> Did the patient have a STEMI during this admission?	radio, Required 1 Yes 2 No
116	[initial_stemi_management] Show the field ONLY if: [stemi]='1'	Initial STEMI management	radio, Required 1 Thrombolysis 2 Activation of cath lab 3 No thrombolysis or cath lab activation
117	[stemi_management_thrombolysis] Show the field ONLY if: [initial_stemi_management]='1'	Further STEMI management if thrombolysed	radio, Required 1 No invasive coronary angiography performed 2 Rescue Cath lab activation - PCI was performed 3 Rescue Cath lab activation - referred for CABG 4 Rescue Cath lab activation - PCI was not performed and not referred for CABG 5 Staged coronary angiography performed - PCI was performed 6 Staged coronary angiography performed - referred for CABG 7 Staged coronary angiography performed - PCI was not performed and not referred for CABG
118	[stemi_management_cath_lab] Show the field ONLY if: [initial_stemi_management]='2'	Further STEMI management if activation of Cath lab	radio, Required 1 Cath lab was activated but no culprit lesion was identified 2 Cath lab was activated and a culprit lesion was identified - PCI was performed 3 Cath lab was activated and a culprit lesion was identified - referred for CABG 4 Cath lab was activated and a culprit lesion was identified - PCI was not performed and patient was not referred for CABG
119	[coronary_angiogram]	Section Header: <i>Coronary angiogram For the following questions, where multiple coronary angiograms were performed, use the first during admission. If no coronary angiogram was performed, answer 'no' for the first question.</i> Coronary angiogram performed during admission?	radio, Required 1 Yes 2 No
120	[seventy_or_more_stenosis_ca] Show the field ONLY if: [coronary_angiogram]="1"	Number of diseased vessels with $\geq 70\%$ stenosis	text (number), Required
121	[left_main_stenosis] Show the field ONLY if: [coronary_angiogram]="1"	Left main stenosis $\geq 50\%$	radio, Required 1 Yes 2 No
122	[proximal_lad_stenosis] Show the field ONLY if: [coronary_angiogram]="1"	Proximal LAD stenosis $\geq 70\%$	radio, Required 1 Yes 2 No
123	[angioplasty] Show the field ONLY if: [coronary_angiogram]="1"	Angioplasty performed?	radio, Required 1 Stent inserted 2 Angioplasty without stenting 3 No angioplasty 4 CABG
124	[ctca]	Section Header: <i>CT Coronary Angiogram Where multiple performed, use the first during admission. If no CT coronary angiogram was performed, answer 'no' for the first question.</i> CT coronary angiogram performed?	radio, Required 1 Yes 2 No
125	[agatson_score] Show the field ONLY if: [ctca]="1"	Agatson score	text
126	[agatson_score_percentile] Show the field ONLY if: [ctca]="1"	Agatson score percentile (%)	text



127	[ ctca_70_or_more_stenosis ]  Show the field ONLY if: [ctca]="1"	Number of diseased vessels with ≥ 70 % stenosis	text (number)						
128	[ ctca_left_main_stenosis ]  Show the field ONLY if: [ctca]="1"	Left main stenosis ≥ 50%	radio <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								
129	[ ctca_proximal_lad_stenosis ]  Show the field ONLY if: [ctca]="1"	Proximal LAD stenosis ≥ 70%	radio <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								
130	[ new_cardiomyopathy_hf ]  Show the field ONLY if: [heart_failure_cardiomyopathy]="2"	Section Header: <i>Cardiomyopathy / Heart failure</i> New cardiomyopathy or heart failure?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								
131	[ worsening_cardiomyopathy_hf ]  Show the field ONLY if: [heart_failure_cardiomyopathy]="1"	Worsening pre-existing cardiomyopathy or heart failure?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								
132	[ new_takotsubo_cardiomyopathy ]  Show the field ONLY if: [new_cardiomyopathy_hf]="1"	New Takotsubo cardiomyopathy?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								
133	[ lowest_lvef ]	Lowest LVEF (%) during admission (Echo or MRI)  If no Echo or MRI available, leave blank	text (number)						
134	[ largest_lvedd ]	Largest LVEDd (cm) during admission (Echo or MRI)  If no Echo or MRI available, leave blank	text (number)						
135	[ highest_bnp ]	Highest BNP  If none available, leave blank	text (number)						
136	[ highest_ntprobnp ]	Highest NT-proBNP  If none available, leave blank	text (number)						
137	[ lvef_covid ]  Show the field ONLY if: [heart_failure_cardiomyopathy]="1"	LVEF (%) prior to COVID-19 (only required for patients with a history of previous cardiomyopathy or heart failure)	text (number)						
138	[ lvedd_covid ]  Show the field ONLY if: [heart_failure_cardiomyopathy]="1"	LVEDd (cm) prior to COVID-19 (only required for patients with a history of previous cardiomyopathy or heart failure)	text (number)						
139	[ rwma ]	New Regional Wall Motion Abnormality (RWMA) on echocardiography or cardiac MRI?	radio, Required <table><tr><td>1</td><td>No echo or cardiac MRI performed</td></tr><tr><td>2</td><td>No new RWMA</td></tr><tr><td>3</td><td>New RWMA</td></tr></table>	1	No echo or cardiac MRI performed	2	No new RWMA	3	New RWMA
1	No echo or cardiac MRI performed								
2	No new RWMA								
3	New RWMA								
140	[ new_af_flutter ]  Show the field ONLY if: [af_flutter]="2"	Section Header: <i>Arrhythmia</i> New atrial fibrillation or flutter?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								
141	[ new_2nd_degree_heart_block ]	New second degree type 2 (Mobitz type II) AV block?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								
142	[ new_3rd_degree_heart_block ]	New third degree AV block (complete heart block)?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No		
1	Yes								
2	No								

143	[conscious_sustained_vt]	Conscious sustained VT (lasting $\geq$ 30 seconds)	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No												
1	Yes																		
2	No																		
144	[torsades]	Torsades des pointes?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No												
1	Yes																		
2	No																		
145	[debrillation_vt_vf]	Attempted electrical cardioversion/defibrillation for VT or VF	radio, Required <table border="1"> <tr><td>1</td><td>No</td></tr> <tr><td>2</td><td>Yes (successful)</td></tr> <tr><td>3</td><td>Yes (unsuccessful)</td></tr> </table>	1	No	2	Yes (successful)	3	Yes (unsuccessful)										
1	No																		
2	Yes (successful)																		
3	Yes (unsuccessful)																		
146	[electrical_cardioversion_af_flutter]	Attempted electrical cardioversion for atrial fibrillation or atrial flutter	radio, Required <table border="1"> <tr><td>1</td><td>No</td></tr> <tr><td>2</td><td>Yes (successful)</td></tr> <tr><td>3</td><td>Yes (unsuccessful)</td></tr> </table>	1	No	2	Yes (successful)	3	Yes (unsuccessful)										
1	No																		
2	Yes (successful)																		
3	Yes (unsuccessful)																		
147	[cardiac_device]	Section Header: <i>Device implantation</i> New cardiac device implanted?	radio, Required <table border="1"> <tr><td>1</td><td>No</td></tr> <tr><td>2</td><td>Single chamber pacemaker</td></tr> <tr><td>3</td><td>Dual chamber pacemaker</td></tr> <tr><td>4</td><td>New biventricular pacemaker</td></tr> <tr><td>5</td><td>Single chamber implantable cardioverter-defibrillator</td></tr> <tr><td>6</td><td>Dual chamber implantable cardioverter-defibrillator</td></tr> <tr><td>7</td><td>Biventricular implantable cardioverter-defibrillator</td></tr> <tr><td>8</td><td>Unknown device type</td></tr> </table>	1	No	2	Single chamber pacemaker	3	Dual chamber pacemaker	4	New biventricular pacemaker	5	Single chamber implantable cardioverter-defibrillator	6	Dual chamber implantable cardioverter-defibrillator	7	Biventricular implantable cardioverter-defibrillator	8	Unknown device type
1	No																		
2	Single chamber pacemaker																		
3	Dual chamber pacemaker																		
4	New biventricular pacemaker																		
5	Single chamber implantable cardioverter-defibrillator																		
6	Dual chamber implantable cardioverter-defibrillator																		
7	Biventricular implantable cardioverter-defibrillator																		
8	Unknown device type																		
148	[temporary_pacing_wire]	Temporary pacing wire inserted?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No												
1	Yes																		
2	No																		
149	[pericarditis]	Section Header: <i>Pericarditis or myocarditis</i> New diagnosis of pericarditis?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No												
1	Yes																		
2	No																		
150	[myocarditis_myopericarditis]	New diagnosis of myocarditis or myopericarditis?	radio, Required <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>	1	Yes	2	No												
1	Yes																		
2	No																		
151	[pericardial_eff_size_echo]	Largest pericardial effusion (mm) measured on echocardiography	radio, Required <table border="1"> <tr><td>1</td><td>No echo performed</td></tr> <tr><td>2</td><td>No pericardial effusion detected</td></tr> <tr><td>3</td><td>Trivial (seen only in systole)</td></tr> <tr><td>4</td><td>Small/mild (&lt; 10 mm)</td></tr> <tr><td>5</td><td>Moderate (10-20 mm)</td></tr> <tr><td>6</td><td>Large (&gt;20 mm)</td></tr> <tr><td>7</td><td>Not reported</td></tr> </table>	1	No echo performed	2	No pericardial effusion detected	3	Trivial (seen only in systole)	4	Small/mild (< 10 mm)	5	Moderate (10-20 mm)	6	Large (>20 mm)	7	Not reported		
1	No echo performed																		
2	No pericardial effusion detected																		
3	Trivial (seen only in systole)																		
4	Small/mild (< 10 mm)																		
5	Moderate (10-20 mm)																		
6	Large (>20 mm)																		
7	Not reported																		
152	[pericardial_eff_size_mri]	Largest pericardial effusion (mm) measured on cardiac MRI	radio, Required <table border="1"> <tr><td>1</td><td>No cardiac MRI performed</td></tr> <tr><td>2</td><td>No pericardial effusion detected</td></tr> <tr><td>3</td><td>Trivial (seen only in systole)</td></tr> <tr><td>4</td><td>Small/mild (&lt; 10 mm)</td></tr> <tr><td>5</td><td>Moderate (10-20 mm)</td></tr> <tr><td>6</td><td>Large (&gt;20 mm)</td></tr> <tr><td>7</td><td>Not reported</td></tr> </table>	1	No cardiac MRI performed	2	No pericardial effusion detected	3	Trivial (seen only in systole)	4	Small/mild (< 10 mm)	5	Moderate (10-20 mm)	6	Large (>20 mm)	7	Not reported		
1	No cardiac MRI performed																		
2	No pericardial effusion detected																		
3	Trivial (seen only in systole)																		
4	Small/mild (< 10 mm)																		
5	Moderate (10-20 mm)																		
6	Large (>20 mm)																		
7	Not reported																		

153	[pericardial_eff_size_ct]	Largest pericardial effusion (mm) measured on any CT including the heart (e.g. CT Chest or CTCA)	radio, Required <table><tr><td>1</td><td>No CT including the heart (e.g. CT Chest or CTCA) performed</td></tr><tr><td>2</td><td>No pericardial effusion detected</td></tr><tr><td>3</td><td>Small/mild (&lt; 10 mm)</td></tr><tr><td>4</td><td>Moderate (10-20 mm)</td></tr><tr><td>5</td><td>Large (&gt;20 mm)</td></tr><tr><td>6</td><td>Not reported</td></tr></table>	1	No CT including the heart (e.g. CT Chest or CTCA) performed	2	No pericardial effusion detected	3	Small/mild (< 10 mm)	4	Moderate (10-20 mm)	5	Large (>20 mm)	6	Not reported
1	No CT including the heart (e.g. CT Chest or CTCA) performed														
2	No pericardial effusion detected														
3	Small/mild (< 10 mm)														
4	Moderate (10-20 mm)														
5	Large (>20 mm)														
6	Not reported														
154	[pericardial_drain]	New pericardial drain?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
155	[pericardial_window]	New pericardial window?	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
156	[cardiac_mri]	Cardiac MRI	radio, Required <table><tr><td>1</td><td>Not performed</td></tr><tr><td>2</td><td>Performed - no evidence of pericarditis, myocarditis or myopericarditis</td></tr><tr><td>3</td><td>Performed - consistent with pericarditis</td></tr><tr><td>4</td><td>Performed - consistent with myocarditis or myopericarditis</td></tr></table>	1	Not performed	2	Performed - no evidence of pericarditis, myocarditis or myopericarditis	3	Performed - consistent with pericarditis	4	Performed - consistent with myocarditis or myopericarditis				
1	Not performed														
2	Performed - no evidence of pericarditis, myocarditis or myopericarditis														
3	Performed - consistent with pericarditis														
4	Performed - consistent with myocarditis or myopericarditis														
157	[cardiac_biopsy]	Cardiac biopsy	radio, Required <table><tr><td>1</td><td>Not performed</td></tr><tr><td>2</td><td>Performed - evidence of myocarditis</td></tr><tr><td>3</td><td>Performed - no evidence of myocarditis</td></tr></table>	1	Not performed	2	Performed - evidence of myocarditis	3	Performed - no evidence of myocarditis						
1	Not performed														
2	Performed - evidence of myocarditis														
3	Performed - no evidence of myocarditis														
158	[icu_admission]	Section Header: <i>Other complications</i> ICU admission	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
159	[intubation]	Intubation	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
160	[dialysis_outcome] Show the field ONLY if: [dialysis]="2" or [dialysis]="3"	Dialysis	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
161	[inotropes_vasopressors]	Intravenous positive inotropes or vasopressors	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
162	[ecmo]	ECMO	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
163	[cardiac_arrest]	Cardiac arrest	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
164	[pulm_embolus]	Pulmonary embolus	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No								
1	Yes														
2	No														
165	[length_of_stay]	Length of stay (days)	text (number), Required												
166	[admission_date]	Admission Date	text (date_dmy, Min: 2019-01-01, Max: 2023-01-01)												
167	[discharge_date]	Discharge Date	text (date_dmy, Min: 2019-01-01, Max: 2023-01-01)												

168	[discharge_status]	Discharge status	radio, Required <table><tr><td>1</td><td>Death - cause of death cardiovascular</td></tr><tr><td>2</td><td>Death - cause of death other</td></tr><tr><td>3</td><td>Alive but palliative - discharge with palliative care</td></tr><tr><td>4</td><td>Alive - transfer to another hospital</td></tr><tr><td>5</td><td>Alive - discharge to nursing home</td></tr><tr><td>6</td><td>Alive - discharge to rehabilitation</td></tr><tr><td>7</td><td>Alive - discharge to other</td></tr><tr><td>8</td><td>Alive - still in hospital</td></tr></table>	1	Death - cause of death cardiovascular	2	Death - cause of death other	3	Alive but palliative - discharge with palliative care	4	Alive - transfer to another hospital	5	Alive - discharge to nursing home	6	Alive - discharge to rehabilitation	7	Alive - discharge to other	8	Alive - still in hospital
1	Death - cause of death cardiovascular																		
2	Death - cause of death other																		
3	Alive but palliative - discharge with palliative care																		
4	Alive - transfer to another hospital																		
5	Alive - discharge to nursing home																		
6	Alive - discharge to rehabilitation																		
7	Alive - discharge to other																		
8	Alive - still in hospital																		
169	[other_hospital]	If the patient was discharged to another hospital, what is the name of the other hospital and why was the patient transferred there?	notes																
170	[special_interim_report]	Section Header: Report status Special interim report  (Only select yes if you have been specifically advised to complete a special interim report for this patient)	radio, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr></table>	1	Yes	2	No												
1	Yes																		
2	No																		
171	[australian_cardiovascular_covid19_database_complete]	Section Header: Form Status Complete?	dropdown <table><tr><td>0</td><td>Incomplete</td></tr><tr><td>1</td><td>Unverified</td></tr><tr><td>2</td><td>Complete</td></tr></table>	0	Incomplete	1	Unverified	2	Complete										
0	Incomplete																		
1	Unverified																		
2	Complete																		