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Retrospective Data Collection

FIELD	VARIABLE	CODING	NOTES
Hospital site	site	Categorical	3-digit number assigned to each participating hospital site
Triage date and time	triage	Date/time	YYYY-MM-DD HH:MM:SS
Sex	sex	Categorical	0, Male 1, Female 2, Intersex
Arrival from	arrival	Categorical	0, Home 1, No fixed address 2, Long-term care/Rehab 3, Shelter 4, Single room occupancy 5, Inter-hospital transfer 6, Other
Provide detail around 'Other' arrival:	otherarrival_2	Free-text	
Postal code (first 3 digits)	postalcode	Free-text	
Risk for Infection	retro_infectionrisk	Checkbox	1, Travel from country with known cases within 14 days 2, Institutional exposure 3, Healthcare worker 4, Microbiology lab 5, Household/caregiver contact 6, Other
What kind of institutional exposure?	institution_type	Free-text	
Other exposure:	otherexposure_2	Free-text	
Comorbid conditions (check all that apply)	retro_comorbidities	Checkbox	1, Congestive health failure 2, Coronary artery disease 3, Hypertension 4, Asthma 5, Pulmonary fibrosis 6, Chronic lung disease (not asthma/IPF) 7, Chronic kidney disease 8, Dialysis 9, Diabetes

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			10, Mild liver disease 11, Moderate/severe liver disease 12, Organ transplant 13, Chronic neuro disorder (not dementia) 14, Dementia 15, Rheumatologic disorder 16, Active malignant neoplasm 17, Past malignant neoplasm 18, Obesity (clinical impression)
Other Comorbidity 1	comorbidity1	Free-text	
Other Comorbidity 2	comorbidity2	Free-text	
Other Comorbidity 3	comorbidity3	Free-text	
Pregnant	pregnant	Categorical	0, No 1, Yes 9, Uncertain
Breastfeeding	breastfeeding	Categorical	0, No 1, Yes 9, Uncertain
Medications pre-ED 1-20	med1 – med20	Categorical	20 fields with drop-down drug lists
Other pre-ED medications not available in the dropdown list above (separated by semi-colons)	othermeds	Free-text	
OTC Medications 1-5	otc1 - otc5	Free-text	
ED Arrival Mode	arrivalmode	Categorical	0, Self 1, Ambulance 2, Police
Treating physician(s)	treatingmd	Free-text	
CTAS	ctas	Categorical	1, 1 2, 2 3, 3 4, 4 5, 5
Presenting complaint	presentingcomplaint	Free-text	
Arrival heart rate	arrival_hr	Numeric	
Arrival systolic blood pressure	arrival_sbp	Numeric	
Arrival diastolic blood pressure	arrival_dbp	Numeric	

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Arrival respiratory rate	arrival_rr	Numeric	
Arrival oxygen saturation	arrival_o2	Numeric	
Amount of oxygen received (L/min) when measured (if known)	o2_received	Numeric	
Lowest recorded oxygen saturation in ED	lowest_o2	Numeric	
Arrival temperature (Celcius)	arrival_temp	Numeric	
Arrival/triage Glasgow Coma Score (GCS)	arrival_gcs	Numeric	
Respiratory distress/ increased work of breathing	resp_distress	Categorical	0, No 1, Yes 9, Not Documented
Symptoms (choose all that apply)	cov_symptoms	Checkbox	1, Cough 2, Shortness of breath (dyspnea) 3, Fever 4, Chills 5, Headache 6, Nausea/vomiting 7, Diarrhea 8, Dysgeusia/anosmia 9, Sputum production 10, Hemoptysis (bloody sputum) 11, Sore throat 12, Runny nose (rhinorrhea) 13, Ear pain 14, Wheezing 15, Chest pain 16, Muscle aches (myalgia) 17, Joint pain (arthralgia) 18, Fatigue/malaise 19, Lower chest wall indrawing 20, Altered consciousness/confusion 21, Seizures 22, Abdominal pain 23, Conjunctivitis 24, Skin rash

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			25, Skin ulcers 26, Lymphadenopathy 27, Bleeding (hemorrhage)
Bleeding site	bleeding_site	Free-text	
Other symptoms 1	other_symp1	Free-text	
Other symptoms 2	other_symp2	Free-text	
Other symptoms 3	other_symp3	Free-text	
Date of onset for earliest symptom	first_onset	Date	YYYY-MM-DD
Tobacco Use	smoking	Categorical	0, Never 1, Past user 2, Current user 9, Unknown
Vaping	vaping	Categorical	0, Never 1, Past user 2, Current user 9, Unknown
Alcohol misuse	alcohol	Categorical	0, Never 1, Past user 2, Current user 9, Unknown
Illicit substances	illicit	Categorical	0, Never 1, Past user 2, Current user 9, Unknown
Describe illicit substance use:	substanceusetype_2	Free-text	
Code status	codestatus	Categorical	0, Full code 1, Not documented 2, Documented as no intubation pre-ED 3, Made no intubation in ED
Maximum oxygen requirement in ED (L/min)	max_o2	Numeric	
Mode of oxygen delivery in ED (pre-intubation)	mode_o2	Checkbox	1, Nasal prongs 2, Facemask 3, Simple rebreather 4, Non-rebreather 5, High-flow nasal oxygen (e.g., Optiflow,

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			Airvo) 6, Bilevel pressure vent 7, Continuous pressure vent
Nasal prong duration (hours)	np_duration	Free-text	
Nasal prong max oxygen requirement (L/min)	np_max_o2	Free-text	
Face mask duration (hours)	fm_duration	Free-text	
Face mask max oxygen requirement (L/min)	fm_max_o2	Free-text	
Simple rebreather duration (hours)	sr_duration	Free-text	
Simple rebreather max oxygen requirement (L/min)	sr_max_o2	Free-text	
Non-rebreather duration (hours)	nr_duration	Free-text	
Non-rebreather max oxygen requirement (L/min)	nr_max_o2	Free-text	
High-flow nasal oxygen duration (hours)	hfo_duration	Free-text	
High-flow nasal oxygen max oxygen requirement (L/min)	hfo_max_o2	Free-text	
Bilevel pressure vent duration (hours)	bpap_duration	Free-text	
Bilevel pressure vent max oxygen requirement (L/min)	bpap_max_o2	Free-text	
Continous pressure vent duration (hours)	cpap_duration	Free-text	
Continuous pressure vent max oxygen requirement (L/min)	cpap_max_o2	Free-text	
ED Intubation	intubation	Yes/No	
Method of pre-oxygenation immediately before intubation	pre_o2	Checkbox	0, Bag-mask valve 1, Nasal prongs 2, Face mask 3, Simple rebreather 4, Non-rebreather 5, Optiflow 6, Bilevel pressure vent 7, Continuous pressure vent
Bagged during intubation	bagged	Categorical	0, No 1, Yes 9, Unknown

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Paralytic	paralytic	Checkbox	1, Rocuronium 2, Succinylcholine 3, Other
Other paralytic	other_paralytic	Free-text	
Sedative	sedative	Checkbox	1, Ketamine 2, Propofol 3, Midazolam 4, Etomidate 5, Dexmedatomidine 6, Other
Other sedative	other_sedative	Free-text	
Technique used	intubation_tech	Checkbox	1, Video laryngoscopy 2, Fiberoptic intubation 3, Direct laryngoscopy 4, Blind nasotracheal 5, Other
Other technique used	other_technique	Free-text	
Intubation outcome	intubation_outcome	Checkbox	0, First pass success 1, Second pass success 2, Third pass success 3, Rescue device 4, Surgical airway 5, Unable to establish airway
Other intubation outcomes	intubation_outcome_other	Free-text	
Adverse events during intubation	intubation_ae	Checkbox	1, Desaturation < 80% 2, Desaturation < 70% 3, Vomiting 4, Arrhythmia 5, Cardiac arrest 6, Intubation awareness 7, Dental trauma
Medication administered in ED (aside from induction/paralytic) 1-10	ed_med1 – ed_med10	Categorical	Drop-down drug list
Other medications administered in ED (please separate with semi-colon).	other_edmed	Free-text	
IV Fluid volume in ED (mL)	ed_iv	Numeric	

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			<ul style="list-style-type: none"> 1, Suspect COVID-19 2, Confirmed COVID-19 3, Influenza/Flu-like illness 4, Upper Respiratory Tract Infection 5, Pneumonia 6, Viral pneumonia 7, COPD exacerbation 8, Asthma exacerbation 9, Congestive heart failure/pulmonary edema 10, Shortness of Breath, NYD 11, Cough, NYD 12, Fever, NYD 13, Other
ED Discharge Diagnosis	discharge_dx		
Other ED Discharge Diagnosis	other_discharge_dx	Categorical	MEDdra drop-down
ED Alternate Diagnosis	alternate_dx	Categorical	MEDdra drop-down
			<ul style="list-style-type: none"> 0, Discharged home 1, Admitted 2, Left AMA 3, Transferred to other hospital 4, Transfer to LTC/Rehab 5, Death 6, Other
ED Disposition	disposition		
Other ED disposition:	other_disposition	Free-text	
ED Disposition date/time	disposition_datetime	Date	YYYY-MM-DD HH:MM:SS
Was COVID testing done prior to ED visit in the past 3 weeks?	covid_pre_ed	Categorical	<ul style="list-style-type: none"> 0, No 1, Yes 9, Unknown
		Categorical	<ul style="list-style-type: none"> 0, Nasopharyngeal swab 1, Mouth swab/saliva 2, Sputum 3, Broncho-alveolar lavage 4, Tracheal aspirate 5, Feces 6, Urinary 7, Blood
Source of swab	swab		

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Results of COVID testing prior to ED visit	results_covid_pre_ed	Categorical	0, Negative 1, Positive 2, Indeterminate 9, Unknown
Date of most recent test done prior to ED visit	date_covid_pre_ed	Date	YYYY-MM-DD
Was COVID testing done in ED/hospital?	covid_inhosp	Yes/No	
Method of sample collection 1	method1	Categorical	0, Nasopharyngeal swab 1, Mouth swab/saliva 2, Sputum 3, Broncho-alveolar lavage 4, Tracheal aspirate 5, Feces 6, Urinary 7, Blood
Results of COVID testing 1	results_covid1	Categorical	0, Negative 1, Positive 2, Indeterminate 9, Unknown
Date of COVID testing 1	date_covid1	Date	YYYY-MM-DD
Method of sample collection 2	method2	Categorical	0, Nasopharyngeal swab 1, Mouth swab/saliva 2, Sputum 3, Broncho-alveolar lavage 4, Tracheal aspirate 5, Feces 6, Urinary 7, Blood
Results of COVID testing 2	results_covid2	Categorical	0, Negative 1, Positive 2, Indeterminate 9, Unknown
Date of COVID testing 2	date_covid2	Date	YYYY-MM-DD
Method of sample collection 3	method3	Categorical	0, Nasopharyngeal swab 1, Mouth swab/saliva

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			2, Sputum 3, Broncho-alveolar lavage 4, Tracheal aspirate 5, Feces 6, Urinary 7, Blood
Results of COVID testing 3	results_covid3	Categorical	0, Negative 1, Positive 2, Indeterminate 9, Unknown
Date of COVID testing 3	date_covid3	Date	YYYY-MM-DD
Method of sample collection 4	method4	Categorical	0, Nasopharyngeal swab 1, Mouth swab/saliva 2, Sputum 3, Broncho-alveolar lavage 4, Tracheal aspirate 5, Feces 6, Urinary 7, Blood
Results of COVID testing 4	results_covid4	Categorical	0, Negative 1, Positive 2, Indeterminate 9, Unknown
Date of COVID testing 4	date_covid4	Date	YYYY-MM-DD
Method of sample collection 5	method5	Categorical	0, Nasopharyngeal swab 1, Mouth swab/saliva 2, Sputum 3, Broncho-alveolar lavage 4, Tracheal aspirate 5, Feces 6, Urinary 7, Blood
Results of COVID testing 5	results_covid5	Categorical	0, Negative 1, Positive 2, Indeterminate 9, Unknown

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Date of COVID testing 5	date_covid5	Date	YYYY-MM-DD
Bloodwork completed?	bloodwork	Yes / No	
Arrival hemoglobin	arrival_hb	Numeric	
Arrival white blood cells	arrival_wbc	Numeric	
Arrival neutrophils	arrival_neut	Numeric	
Arrival lymphocytes	arrival_lymph	Numeric	
Arrival platelets	arrival_plat	Numeric	
Arrival sodium	arrival_sodium	Numeric	
Arrival potassium	arrival_pot	Numeric	
Arrival creatinine	arrival_creat	Numeric	
Arrival alanine aminotransferase (ALT)	alt	Numeric	
Arrival bilirubin	bilirubin	Numeric	
Arrival lactate	arrival_lactate	Numeric	
International normalised ratio (INR)	inr	Numeric	
D-dimer	ddimer	Free-text	
Procalcitonin	procalc	Free-text	
C-Reactive Protein (CRP)	crp	Numeric	
Troponin positive/negative	troponin_yn	Categorical	0, Negative 1, Positive
Troponin I	troponin_i	Numeric	
Troponin T	troponin_t	Numeric	
First blood gas	bloodgas	Categorical	0, None 1, Venous 2, Arterial
Date first blood gas drawn	date_bloodgas	Date	YYYY-MM-DD
pH	ph	Numeric	
pCO2	pco2	Numeric	
pO2	po2_v2	Numeric	
Oxygen saturation amount	oxygen_saturation	Numeric	
Other viral swab done?	viral	Yes / No	
RSV	rsv	Categorical	0, Negative 1, Positive 9, Unknown
Parainfluenza	parainfluenza	Categorical	0, Negative 1, Positive

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			9, Unknown
Rhinovirus	rhinovirus	Categorical	0, Negative 1, Positive 9, Unknown
Metapneumovirus	metapneumo	Categorical	0, Negative 1, Positive 9, Unknown
Influenza	influenza	Categorical	0, Negative 1, Positive 9, Unknown
Chest X-Ray (CXR)	cxr		0, CXR not performed 1, Focal consolidation 2, Multi-lobal consolidation 3, Interstitial pneumonia 4, Ground glass opacity 5, Local patchy shadowing 6, Bilateral patchy shadowing 7, Interstitial abnormalities 8, No acute findings 9, Other
Other CXR findings	other_cxr	Free-text	
CT Chest	ct	Categorical	0, CT not performed 1, Focal consolidation 2, Multi-lobal consolidation 3, Interstitial pneumonia 4, Ground glass opacity 5, Local patchy shadowing 6, Bilateral patchy shadowing 7, Interstitial abnormalities 8, No acute findings 9, Other
Other CT findings	other_ct	Free-text	
Was the patient admitted?	admitted	Yes / No	
Level of care 1 after ED	level1	Categorical	0, Regular ward 1, Isolation ward 2, High acuity/step down

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			3, ICU 4, Hallway 5, Operating room (without going for surgery)
Date of transfer into level of care 1	date_level1	Date	YYYY-MM-DD
Level of care 2 after ED	level2	Categorical	0, Regular ward 1, Isolation ward 2, High acuity/step down 3, ICU 4, Hallway 5, Operating room (without going for surgery)
Date of transfer into level of care 2	date_level2	Date	YYYY-MM-DD
Level of care 3 after ED	level3	Categorical	0, Regular ward 1, Isolation ward 2, High acuity/step down 3, ICU 4, Hallway 5, Operating room (without going for surgery)
Date of transfer into level of care 3	date_level3	Date	YYYY-MM-DD
Level of care 4 after ED	level4	Categorical	0, Regular ward 1, Isolation ward 2, High acuity/step down 3, ICU 4, Hallway 5, Operating room (without going for surgery)
Date of transfer into level of care 4	date_level4	Date	YYYY-MM-DD
Level of care 5 after ED	level5	Categorical	0, Regular ward 1, Isolation ward 2, High acuity/step down 3, ICU 4, Hallway 5, Operating room (without going for surgery)

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Date of transfer into level of care 5	date_level5	Date	YYYY-MM-DD
New medications administered in hospital	hosp_med1 – hosp_med10	Categorical	Drop-down drug list
Other new medications administered in hospital. Please separate list with semi-colon.	other_hospmed	Free-text	
Intubation on ward/in ICU	hosp_intubation	Categorical	0, No 1, Yes 9, Unknown
Date hospital intubation	date_hosp_intubation	Date	YYYY-MM-DD
Date hospital extubation	date_hosp_extubation	Date	YYYY-MM-DD
Re-intubation on ward/ICU	hosp_reintubation	Categorical	0, No 1, Yes 9, Unknown
Date hospital intubation	date_hosp_intubation_2	Date	YYYY-MM-DD
Date hospital extubation	date_hosp_extubation_2	Date	YYYY-MM-DD
Re-intubation on ward/ICU	hosp_reintubation_2	Categorical	0, No 1, Yes 9, Unknown
Date hospital intubation	date_hosp_intubation_3	Date	YYYY-MM-DD
Date hospital extubation	date_hosp_extubation_3	Date	YYYY-MM-DD
Re-intubation on ward/ICU	hosp_reintubation_3	Categorical	0, No 1, Yes 9, Unknown
Date hospital intubation	date_hosp_intubation_4	Date	YYYY-MM-DD
Date hospital extubation	date_hosp_extubation_4	Date	YYYY-MM-DD
In-hospital death	hosp_death	Yes/No	
Date hospital death	date_hosp_death	Date	YYYY-MM-DD
Hospital discharge diagnosis	hosp_dx1	Categorical	1, Suspected case of COVID-19 2, Confirmed case of COVID-19 3, Upper Respiratory Tract Infection 4, Pneumonia 5, Viral pneumonia 6, Cough, NYD 7, Fever, NYD 8, Sinusitis

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			<ul style="list-style-type: none"> 9, Pharyngitis 10, Flu-like Illness 11, Bronchitis 12, Chronic obstructive lung disease 13, Asthma 14, ARDS Adult respiratory distress syndrome 15, Pulmonary edema/congestive heart failure 16, Pulmonary embolism 17, SOB Shortness of breath 18, Viral pneumonia 19, FUO Fever unknown origin 20, Sepsis, NYD 21, Chest pain, NYD 22, Other
Other diagnosis	other_dx1	Free-text	
Comment on discharge diagnosis	other_dx1_comment	Free-text	
Hospital discharge diagnosis	hosp_dx2	Categorical	<ul style="list-style-type: none"> 1, Suspected case of COVID-19 2, Confirmed case of COVID-19 3, Upper Respiratory Tract Infection 4, Pneumonia 5, Viral pneumonia 6, Cough, NYD 7, Fever, NYD 8, Sinusitis 9, Pharyngitis 10, Flu-like Illness 11, Bronchitis 12, Chronic obstructive lung disease 13, Asthma 14, ARDS Adult respiratory distress syndrome 15, Pulmonary edema/congestive heart failure 16, Pulmonary embolism

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			17, SOB Shortness of breath 18, Viral pneumonia 19, FUO Fever unknown origin 20, Sepsis, NYD 21, Chest pain, NYD 22, Other
Other diagnosis	other_dx2	Free-text	
Comment on discharge diagnosis	other_dx2_comment	Free-text	
		Categorical	1, Suspected case of COVID-19 2, Confirmed case of COVID-19 3, Upper Respiratory Tract Infection 4, Pneumonia 5, Viral pneumonia 6, Cough, NYD 7, Fever, NYD 8, Sinusitis 9, Pharyngitis 10, Flu-like Illness 11, Bronchitis 12, Chronic obstructive lung disease 13, Asthma 14, ARDS Adult respiratory distress syndrome 15, Pulmonary edema/congestive heart failure 16, Pulmonary embolism 17, SOB Shortness of breath 18, Viral pneumonia 19, FUO Fever unknown origin 20, Sepsis, NYD 21, Chest pain, NYD 22, Other
Hospital discharge diagnosis	hosp_dx3		
Other diagnosis	other_dx3	Free-text	
Comment on discharge diagnosis	other_dx3_comment	Free-text	
Hospital discharge date	discharge_date	Date	YYYY-MM-DD
Previous ED Visit/ ED Re-visit date 1	revisit1	Date	YYYY-MM-DD

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Previous ED visit/ ED Re-visit date 2	revisit2	Date	YYYY-MM-DD
Previous ED visit/ ED Re-visit date 3	revisit3	Date	YYYY-MM-DD
Admission date 1	admission1	Date	YYYY-MM-DD
Admission date 2	admission2	Date	YYYY-MM-DD
Admission date 3	admission3	Date	YYYY-MM-DD
Death	death	Yes / No	
Date of Death	date_death	Date	YYYY-MM-DD