

SUPPLEMENTARY APPENDIX

Supplementary Appendix 1

Study Pro forma: PCSI COVID study

Part 2: Details of CHD cases confirmed/suspected to have COVID

(Separate part 2 to be filled for each patient)

Site ID Participant ID

A. Presentation/admission

Clinical inclusion criteria

Age :

Gender: M F

COVID 19 status : Suspect Confirm

If Confirm, Method of diagnosis: PCR Ag assay

Ab Rapid

First COVID detection date

Indication for testing : Screen before planned admission/Screened before consultation/symptomatic

Caregiver's relation

Caregiver's status

A. Other Demographics

Family member COVID positive: Father/Mothers/sibling/Others

Approximate social status Upper/Middle/Lower middle/Lower

- B. Preexisting cardiac diagnosis:
- C. Age at first cardiac diagnosis
- D. Any other co-morbidities (If Syndromic, Indicate here)
- E. Malnutrition: Yes/No
- F. Onset and admission

Date of admission

First symptom onset (days before admission)

How many days after symptom COVID was tested?

Presenting symptoms

G. Clinical features on admission

Fever Yes/No

SPO2

Tachypnea yes/No

Requirement of respiratory support Yes/No

BP

CFT

Height Weight

Clinically in shock Yes/No

H. Pre admission medications: (Tick whichever applicable)

- a. Diuretics
- b. Digoxin
- c. ACE Inhibitors/ARBs
- d. Beta-blockers
- e. Ibuprofen
- f. Other NSAIDs
- g. Antiarrhythmics

I. Hospital course

- a. Initially admitted in: Daycare/Ward/ICU
- b. Patient's most severe state: Mild symptoms/Severe symptoms/Critical

- c. Broad categories of treatment used
- i. Non-invasive ventilation? (Any) YES NO Unknown
If YES, total duration: _____days Unknown
 - ii. Invasive ventilation? (Any) YES NO Unknown If YES, total duration: _____days Unknown
 - iii. Prone Positioning? YES NO Unknown If YES, total duration: _____days Unknown
 - iv. Inhaled Nitric Oxide? YES NO Unknown
 - v. Tracheostomy inserted? YES NO Unknown
 - vi. Extracorporeal support (ECMO)? YES NO Unknown If YES, total duration: _____days Unknown
 - vii. Renal replacement therapy (RRT) or dialysis? YES NO Unknown
 - viii. Inotropes/vasopressors? YES NO Unknown If YES, total duration: _____days Unknown
 - ix. ICU or High Dependency Unit admission? YES NO Unknown If YES, total duration: _____days Unknown

J. Medications while in the hospital

- a. Antivirals YES NO Unk
 - i. If yes Which drug Duration
- b. Chloroquine/hydroxychloroquine YES NO Unk
 - i. If yes, Duration
- c. Antibiotics YES NO Unk
 - i. If yes, which drug Duration
- d. Corticosteroids YES NO Unk
 - i. If yes, Which drug Oral/IV Duration
- e. Heparin YES NO Unk
 - Duration

K. Complications

Viral pneumonia/pneumonitis	YES NO Unk	Stroke/Cerebrovascular accident	YES NO Unk
Bacterial pneumonia	YES NO Unk	Meningitis/Encephalitis	YES NO Unk
Acute Respiratory Distress Syndrome	YES NO Unk	Bacteremia	YES NO Unk
If Yes : Severity Mild/Moderate/Severe			
Pneumothorax	YES NO Unk	Pulmonary embolism	YES NO Unk
Pleural effusion	YES NO Unk	Anemia	YES NO Unk
Cryptogenic organizing pneumonia (COP)	YES NO Unk	Rhabdomyolysis/Myositis	YES NO Unk
Bronchiolitis	YES NO Unk	Acute renal injury/Acute renal failure	YES NO Unk
Cardiac arrest	YES NO Unk	Gastrointestinal haemorrhage	YES NO Unk
Myocardial infarction	YES NO Unk	Pancreatitis	YES NO Unk
Cardiac ischaemia	YES NO Unk	Liver dysfunction	YES NO Unk
Cardiac arrhythmia	YES NO Unk	Hyperglycemia	YES NO Unk
Myocarditis/Pericarditis	YES NO Unk	Hypoglycemia	YES NO Unk
Endocarditis	YES NO Unk	Other	
Cardiomyopathy	YES NO Unk	If YES specify:	
Congestive heart failure		YES NO Unk	
Seizure			

A. Laboratory details

Parameter	Value	Not done	Parameter	Value	Not done
Hemoglobin			Urea		
WBC count (x10 ⁹ /L)			Create		
DLC	P L M E		Lactate		
Platelets			Na/K		
PT (seconds)			PCT		
APTT (S)			CRP		
INR			LDH		
AST/ALT			CKMB		
Bil Total			Trop I		
Blood Sugar Mg/dl			D Dimer		
S ferritin			IL- [^] levels		

N. In-Hospital outcome

- a. Death/survived

- b. Date of death/discharge
- c. Whether cardiac surgery done during index hospitalization? Yes/No
- d. Condition needed an elective surgery Yes/No
 - i. Surgery done later
 - ii. Awaiting surgery
- e. Remarks

Supplementary Table 1: Diagnosis of individual lesions among coronavirus disease-2019-positive patients (n=94)

Type of heart disease	n (%)
CHD	
Cyanotic CHD	39 (41.5)
Tetralogy of Fallot	16
Transposition of great arteries	5
VSD pulmonary atresia	5
TAPVC	3
Others	10
Acyanotic CHD	31 (33.0)
VSD	13
Atrial septal defect	8
Patent ductus arteriosus	6
Others	4
Obstructive CHD	12 (12.8)
Coarctation of aorta	5
Aortic stenosis	3
Pulmonary stenosis	3
Congenital mitral stenosis	1
Acquired heart disease in children	12 (12.8)
Infective endocarditis*	3
Idiopathic pulmonary hypertension	2
Dilated cardiomyopathy	2
Rheumatic heart disease	2
Others	3

*All three had underlying heart disease but were primarily admitted for infective endocarditis. CHD: Congenital heart disease, VSD: Ventricular septal defect, TAPVC: Total anomalous pulmonary venous connection