## THE LANCET Respiratory Medicine

## Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: Bajaj R, Sinclair HC, Patel K, et al. Delayed-onset myocarditis following COVID-19. *Lancet Respir Med* 2021; published online Feb 19. http://dx.doi.org/10.1016/S2213-2600(21)00085-0.

## **Supplementary Material**

Table 1

Contingence shock   Cont	Age; Gender; Ethnicity;	Clin	Clinical Presentation		ICU Su	ICU Support (length)		Myocardial Imaging	Lab. Results	SARS-CoV-2	ICU stay;
and dry 2 decreases because Respiratory falters  and includence of species concerns  and includence and an includence of the concentration of the control of	H.	Pre-admi ssion/ Prodrome	Admission to hospital	ICU Referral	Mechanical	Drug Therapy	ICU admission	CMR (when, InTievel)	(peak values)	Kesuits	outcome
the drystoca, areas  4 days for the formal part, days adominal part, days for the formal part, days adominal part, days adominal part, days adominal part, days for the formal part days days for the formal part days for the formal part days days for the formal part days for the formal part days days for the formal part days days for the formal part days for the formal part days days for the formal part days for	ç South Asian,	Forces, molaise, ausemia and dry ough fire 2 weeks full owed by 2- month symptom-free interval.	3 days fover, sweats, dizziness, dyspanea, diamboea. Abdominal and pdmaphantar rech.	Regiratory failure and cardiogenic shock	Venilation (24 hrs)	Milninone, adrenaline; BSA, acyclovir, methylprednisolone		+4dzys, Th.T. 630mg/L), LVEF 49%, normal T2, no LGE. Scar 2 (4 months ys, Th.T. 6mg/l, LVEF 62%, normal T1 and	CRP 358 mg/L; TnT 1576 ng/L; Ferritin 16154 mcg/L; neutrophils 17x109/1	RT-PCR: 3 x negative, antibudy positive	4 वेम्रड, full एटाण्यम्
4 tays from, districts   4 tays from, distri	; Black- MH	Admission with symptoms, PE, postive RT-PCR and normal TnT. Discharged after 4 days and symptom free for 2 weeks.		Cardiogenic shock	Ventilation (9 days); VA ECMO (72 hours)	Milninone, noradrenaline; B SA; methylprednisolone		Scan 1 (ICU +14days, TnT 25ng/L); LVEF 70%, elevated T1, normal T2, epicardial LGE.	CRP 403 mg/L; In1 620 ng/L; RT-PCR: 7 x Fertin 1711 negative, mg/L; neurophils antibody positive 11x1091	RT-PCR: 7 x negati ve; antibody positive	13 days; full recovery
11   12   12   13   13   14   15   15   15   15   15   15   15	; Black-African,	No prodramal symptoms		Cardiogenic shock and refractory VF. Brugada pattern ECG.	Ventilation (48 hrs)	Advantine, noradrentine; BSA, hydrocortisone	) (	Scan (1000 + 665ys, TulYSug/); LVER63%, devated Ti and T2, no LGE. Scan 2 (10 works after dischange, Tul' Sug/i). LVER 67%, normal Ti, T2, no LGE.	CRP 327 mg/L; TnT 270 ng/L; Ferritin 3893 mcg/L; neutrophils 46.5x109/l	RT-PCR: 4 x negative, antibody positive	4 days, fuil recovery
7 days abdomined pain, dyspueca, denthesia and cardiogenic shock bleeding Rash on soles, and cardiogenic shock days)  8 days fever, rigors, bleeding Rash on soles, cardiogenic shock days)  8 days promatecous abortion.  8 cardiogenic shock days promatecous and darkers and darkers and darkers and darkers and darkers and darkers.  8 days mysigs, fevers, and cardiogenic shock destination 24 weeks dyspueca, perity and and an and formation 24 weeks dyspueca, perity and some cardiogenic shock pain dyspension and hypotension, and arried ocelina, dyspueca, perity and some cardiogenic shock pain and some ca	e; Black-African; esity, chronic	Anosmia, myagia, cold like malana' 3-4 weeks before admission. Partial recovery.	4 days fever, malaise, dyspnoea. Conjundival keratopathy and tongue changes.	Cardiogenic shock	Ventilation (16 days); VA and VV ECMO 7 days	Adrendine, vasopressin, milnione, BSA, osel tami vir, hydrocortisone	Ċ	Scan I(CU + 23 days, ThT 54ngI); LVEF 42%, elevated TI and T2, midwall/epicarda LGE. Scan 2 (5 months after discharge, ThT 49ngI); LVEF 27%, elevated TI and T2, midwall/epicarda LGE.	CRP 461 mg/L; TnT 574 ng/L; Ferritin 6461 mg/L; neutrophils 23x109/1	RT-PCR: 6 x negative, antibody positive	18 days: NYHA2-3
blooking pain and PV  Cardiogenic shock days)  Adopting pain and PV  Cardiogenic shock days)  Adopting pain and PV  Cardiogenic shock days)  Cardiogenic shock days)  Chest pain, dyspneea, peed destruction and days  Chest pain, dyspneea, peed destruction and days  Cardiogenic shock days)  Chest pain, dyspneea, peed destruction and days. 2 days  Cardiogenic shock days  Cardiogenic shock dyspneea, peed destruction and mal ass. 2 days  Cardiogenic shock dyspneea, peed destruction and mal ass. 2 days  Cardiogenic shock dyspneea, peed destruction and mal ass. 2 days  Cardiogenic shock dyspneea, peed destruction and mal ass. 2 days  Cardiogenic shock dyspneea, peed dyspneea, peed dyspneed, dysp	ş Black-African, r PMH.	No prodramal symptoms			None	Dobutamine, adrenaline, BSA	F<30%).	Scar (ICC) + 10 days, ThT 72ag/t LIVEF 62%, closated 17 and 12, midwall septal LGE. Scan 2 (4) weeks after discharge LVEF 71%, normal 11 and 12, resolution of LGE.	CRP 253 mg/L; TnT 242 ng/L; Ferritin 3528 m cg/L; neutrophils 34x109/1	RT-PCR: 3 x negative, antibody positive	4 तंत्रुष्ठ, full एकाणव्य
A drys myslgh, Fvers, and cardiogenic choice and darkers and the	ale; Black- s pregnant.	Sore throat and fevers 6 weeks prior, with complete recovery.		Cardiogenic shock	Ventilation (15 days)	Noradrenaline, adrenaline, vasopressin, milnione; B SA; IVIG and hydrocortisone		Scan I(ICU + 24 days, Th.T 34ng/); LVEF 58%, bordedine elevated T1, normal T2, no LGE.	CRP 335 mg/L; TnT 90 ng/L; Ferritin 5833 m cg/L; neutrophils 20x109/1	RT-PCR: 8 x negative; antibody positive	25 days: no follow-up data
Chest pain, dysgencea, desaturation 24 hours classification 24 hours section.  Tely forc, health to section.  The Bi-venticular impairment (LVEF <15%).  None  Levosimendan  TIE: Bi-venticular impairment (LVEF <15%).  CT. Lung consolidation, no P.E. CTG.: no stenoses.  TIE: Bi-venticular disposate shock with the section of the section of the section.  2	e, Black- MH	No proxirumal symptoms		Respiratory failure and cardiogenic shock	Ventilation (4 days)	Militance, noradrazine, levusi mendan, BSA; IVIC, anakinea, mediyiptednisakone		Scan (QCU + 8 days, ThT 34ng/l); LVEF57%, normal T1 and T2, quicantal LGE.	CRP 379 mg/L; TnT 431 ng/L; Ferritin 1356 m cg/L; neutrophils 20x109/1	RT-PCR: 4 x negative, antibudy positive	6 days, full recovery
7-4cy Ever, Incutring and Indiana, 2-4cys vorating, upper and making, 2-4cys vorating, upper and making the standard pain and losses study.    2-4 weeks dyspnoea, perial and send of an	ale; South- al diabetes, C- eks gestation.	No prodromal symptoms		Cardiogenic shock	None	L evosimendan		Scan I(CU + 3days, TnT?hgl); LVEF62%, elevated T1 and T2, extensive midwall and epicardial LGE. Scan 2 (feweeks after discharge). LVEF 63%, normal T1 and T2, resolution of LGE.	CRP 190 mg/L; TnT 406 ng/L; RT-PCR: 3 x Ferritin 111 negative, mg/L; neurophils antibody negative 13x109.1	RT-PCR: 3 x negati ve, antibody negative	4 days; fuil recovery
No prodromal symptoms peripheral codema, chest Cardiogenic shock by prodromal symptoms and sarrial orderna, the statement of the consolidation.  None months prior, complicated by and sarrial orderna.  None B.S.A. orderna vir conspicient by and sarrial orderna.  None B.S.A. orderna vir conspicient by and sarrial orderna.  None B.S.A. orderna vir conspicient by consolidation.  TTE Bi-venticular pronting produced by consolidation.  TTE Bi-venticular pronting pronting impairment (LVEF15%).  TTE Bi-venticular pronting pronting impairment (LVEF45%).  TTE Bi-venticular pronting pronting impairment (LVEF45%).  TTE Bi-venticular pronting pronting impairment (LVEF45%).	s; Black-Affican,	No prodramal symptoms	40	Cartiogenic shork	None	None	-ventrionlar cont (LVEF <35%). arbit e bibasal	Scan IQCU + 4 days) LVEFS8%, d exaled T2, exatensive midwal LGE.	CRP 222 mg/L; TnT 2704 ng/L; Ferritin 3847 m cg/L; neutrophils 10x109/1	RT-PCR: 3 x negative, antibody negative	1 day, no follow up data
Activated of text and lagenotumy.   Mobit 2 AV block.	le; Black- and family 1 and premature	No prodromal symptoms	veeks dyspnoea, heral oedema, chest	Cardiogenic shock	None	Milinone; BSA; methylprednisolone		obtained. Explant heart: extensive fibrotic no inflammatory inflitrates. Genetic test	CRP 103mg/L; TnT 95 ng/L; Ferritin 182 m cg/L; neutrophi1s 8x109/l	RT-PCR: 5 x negati ve; antibody positive	2 days; cardiac transplant 20 days after admissiion
Mobit 2 AV block,   Innorth chest pain and hypotension,   No producental symptoms   Version of and innortioning   None   Innortioning   None   Innortioning   Innortionin	ic, Black- CKD, obesity, nal uter	RT-PCR proven COVII9 2 months prior, complicated by perforated utorr and laparotemy.		Respiratory faiture	None	BSA, osdtanivir	ventionlar art (LVEF<15%). tilical ground-glass	Scan L(CU + 15 days) LVEF16%, midby elevated TT, not IGE.	CRP 34mg/L; TnT 95 ng/L; Ferritin 1074 m cg/L; neutrophils 4x109/l	RT-PCR: 1 x negative, antibody positive	2 days, chronic heart failure symptoms
biopsy	ale; Black- I	No prodromal symptoms	Imonth chest pain and worsening dyspnoea and orthopnoea	Mobitz 2 AV block, hypotension, monitoring following cardiac biopsy	None	methylprednisol one		Scan I(CCU - 1 day, InT 274ingl); LVEF33%, very elevated II and I2, no LCE. Scan 2 (CCU + 6 days, InI 38ngl). LVEF 66%, mildly elevated II and I2, no LCE. EAIR (CCU day 0); lymphocytic myocarditis.	CRP 5mg/L; TnT 2741 ng/L; Ferritin 92 mcg/L; neutrophils 4x109/1	RT-PCR: 3 x negative; antibody positive	1 day; no follow up data

**Table 1:** Case summaries including Subjects (cases 1-9) and Controls (cases 10-12).

BSA – broad spectrum antibiotics, CMR – cardiac magnetic resonance imaging, CT – computed tomography, CTCA – CT coronary angiogram, CXR – chest x-ray, ECMO – extracorporeal membrane oxygenation as veno-veno (VV) or veno-arterial (VA), EMB – endomyocardial biopsy, ICU - intensive care unit, LGE – late gadolinium enhancement, LV – left ventricle, PE – pulmonary emboli, PMH – past medical history, TTE – transthoracic echocardiography.