

# THE LANCET

## Child & Adolescent Health

### 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: Wolfler A, Mannarino S, Giacomet V, Camporesi A, Zuccotti G. Acute myocardial injury: a novel clinical pattern in children with COVID-19. *Lancet Child Adolesc Health* 2020; published online June 1. [https://doi.org/10.1016/S2352-4642\(20\)30168-1](https://doi.org/10.1016/S2352-4642(20)30168-1).

**Table.** Demographic, clinical characteristics, blood tests results and therapy of the five children enrolled. Virologic tests use a PCR technique on nasopharyngeal swab or aspirates. Serologic tests are made on blood sample.

	Patient 1	Patient 2	Patient 3	Patient 4	Patient 5
<b>Gender</b>	M	M	F	F	F
<b>Age, months</b>	72	168	2	132	48
<b>Clinical symptoms:</b>					
<b>Fever</b>	+	+	+	+	+
<b>Diarrhoea</b>	+	+	+	+	+
<b>Vomiting</b>	+	+	+		
<b>Asthenia</b>		+		+	+
<b>Dyspnoea</b>		+			
<b>Days of illness upon presentation</b>	8	7	1	5	5
<b>SARS-CoV-2 test</b>	Nasopharyngeal swab - PCR	Nasopharyngeal swab - PCR	Nasopharyngeal swab - PCR	Nasopharyngeal swab - PCR	Nasopharyngeal swab - PCR
<b>Cardiac parameters on PICU admission:</b>					
<b>HR – bpm</b>	155	138	174	151	157
<b>SBP - mmHg</b>	84	80	75	68	72
<b>ECG anomalies</b>	ST waves abnormalities	- ST waves abnormalities - QTc 580 ms - T negative waves D2-D3 - Atrial fibrillation	ST waves abnormalities	ST waves abnormalities	- ST waves abnormalities - T negative waves in D2-D3
<b>Echocardiogram:</b>					
<b>Ejection fraction, %</b>	38%	48%	53%	55%	40%
<b>Ventricular dysfunction</b>	Moderate	Mild	Mild	Mild	Moderate
<b>Coronary artery anomalies</b>	None	None	None	None	None
<b>Mitral valve regurgitation</b>	Yes	Yes	No	Yes	Yes
<b>Blood tests:</b>					
<b>ALT - U/L (nv &lt; 33)</b>	30	213	18	18	145
<b>Serum Albumin – g/L (nv 35 - 50)</b>	N/A	N/A	N/A	24	42
<b>Hb - g/dL (nv 12.5 – 15.5)</b>	10.3	12.5	7.9	9.7	8.1
<b>Platelets - 10<sup>9</sup>/L (nv &gt; 130)</b>	268	312	349	241	171
<b>WBC - 10<sup>9</sup>/L (nv 4.5 – 10)</b>	4.49	3.54	7.41	2.86	5.33
<b>Neutrophils - % (nv 40 – 72)</b>	45	90	74	83	81
<b>Urine WBC – N/μL (nv &lt; 15)</b>	N/A	5	N/A	N/A	N/A
<b>Sodium - mEq/L (nv 135 - 45)</b>	136	137	138	137	132
<b>Interleukine 6 - ng/L (nv &lt; 7)</b>	52	392	236	27	699
<b>d-Dimer - μg/L (nv &lt; 500)</b>	6073	4881	1918	1267	4084
<b>Ferritin - μg/L (nv &gt; 100)</b>	153	2121	136	-	380
<b>C Reactive Protein – mg/L (nv &lt; 10)</b>	124	432	35	211	292
<b>Procalcitonin - μg/L (nv &lt; 2)</b>	46	39	2	1.1	36
<b>Nt-proBNP – ng/L (nv &lt; 450)</b>	20518	35000	3353	5293	32839
<b>Troponine – ng/L (nv &lt;15)</b>	112	1497	150	126	85
<b>Therapies:</b>					
<b>IVIg (2gr/kg)</b>	+		+	+	+
<b>Steroid</b>		+			
<b>Hydroxychloroquine</b>				+	
<b>Tocilizumab</b>		+			
<b>Inotrope</b>	Epinephrine	Epinephrine + PDE3 inhibitor	Epinephrine		Epinephrine
<b>Antibiotic</b>	+	+	+	+	+
<b>Prophylactic LMWH</b>	+	+		+	+
<b>Virologic tests:</b>					
<b>Parainfluenza 1-4 Coronavirus</b>					
<b>Human metapneumovirus Respiratory syncytial virus</b>					
<b>Adenovirus A-G</b>	All negative	All negative	All negative	All negative	All negative
<b>Enterovirus</b>					
<b>Bocavirus</b>					
<b>Parechovirus</b>					

<b>Serologic tests:</b>					
<b>Coxsackie B IgM</b>					
<b>Parvovirus B19 IgM - IgG</b>					
<b>PICU LOS, dd</b>	3	5	3	1	5
<b>Hospital LOS, dd</b>	5	7	5	9	10

**Legend:** HR = heart rate; SBP = systolic blood pressure; ECG = electrocardiogram; mo = months; Hb = hemoglobin; WBC = white blood cell; NT-proBNP = N terminal pro brain natriuretic peptide; IVIG = intravenous immunoglobulin; PICU = Pediatric Intensive Care Unit; LOS = length of stay; LMWH = low molecular weight heparin; nv = normal value; PCR = polymerase chain reaction ; N/A = not available