

THE LANCET

Child & Adolescent Health

Supplementary appendix

This appendix formed part of the original submission. We post it as supplied by the authors.

Supplement to: Sadiq M, Aziz OA, Kazmi U, et al. Multisystem inflammatory syndrome associated with COVID-19 in children in Pakistan. *Lancet Child Adolesc Health* 2020; published online Aug 10. [https://doi.org/10.1016/S2352-4642\(20\)30256-X](https://doi.org/10.1016/S2352-4642(20)30256-X).

Table 1: Epidemiological, Clinical, Laboratory, Echocardiographic, Management and Outcome of Patients

Characteristics	Patient 1	Patient 2	Patient 3	Patient 4	Patient 5	Patient 6	Patient 7	Patient 8	
Epidemiological Characteristics									
Age (Years)	11 Y	8 Y	13 Y	7 Y	8 Y	10 Y	10 Y	9 Y	
Sex (M=Male, F=Female)	M	M	M	M	M	M	M	F	
Comorbid Conditions	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Presentation									
Atypical Kawasaki Disease	Yes	No	Yes	Yes	Yes	No	No	No	
Typical Kawasaki Disease	No	No	No	No	No	No	Yes	Yes	
MIS-C Criteria	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PIMS-TS Criteria	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Clinical features									
Fever (Days)	7	7	8	5	9	4	7	5	
Body aches	Present	Present	Present	Present	-	Present	Present	-	
Gastrointestinal Symptoms (Abdominal pain, Vomiting, Diarrhea)	Present	Present	-	Present	Present	Present	Present	-	
Meningism/Altered Consciousness	-	Present	-	-	Present	Present	-	-	
Conjunctivitis	Present	-	Present	Present	Present	Present	Present	Present	
Oral mucosal changes (Lips/ Tongue)	-	-	Present	-	Present	Present	Present	Present	
Cervical Lymphadenopathy	-	-	Present	-	-	-	-	Present	
Rash	Present	Present	-	Present	-	-	Present	Present	
Peripheral extremity changes	Present	-	-	-	-	-	Present	Present	
Hypotension/Shock	No	Yes	No	No	No	Yes	No	No	
Organ-system Involvement: 2 Systems	-	-	-	-	-	-	-	Yes	
3 Systems	Yes	-	Yes	Yes	-	-	Yes	-	
≥ 4 Systems	-	Yes	-	-	Yes	Yes	-	-	
COVID-19 Status									
RT-PCR for SARS COV 2	Negative	Not Done	Positive	Positive	Negative	Negative	Positive	Not Done	
COVID-19 Antibody Assay IgG/Combined	Reactive	Reactive	Reactive	Reactive	Reactive	Reactive	Reactive	Reactive	
Laboratory Parameters- (Reference Range)									
White Cell Count (x10E3/μL)	(4-10.5)	11.3	37.3	9	10.1	14.2	5.4	8.9	6.49
Neutrophils (%)	(40-60)	76	88.3	50	38	68	88	85	43.7
Lymphocytes (%)	(20-40)	21	9.4	15	52	24	9.2	13	42.2
Platelet (x10E3/μL)	(150-400)	126	109	110	309	88	83	195	356
PT/APTT (Sec)	(12-16/30-40)	14.5/32.4	>120/>120	15/29	15/29	>120/>120	>120/>120	16/40.6	15/29
C-Reactive Protein (mg/L)	(<0.5)	78	187.5	130	57.24	173.6	61.21	89.46	10
Ferritin (ng/ml)	(13-350)	921	867	784.4	168.9	1660.0	3000	3000	-
D-Dimers (μg/ml)	(0-0.5)	0.8	1.2	<0.5	1.7	2.0	5.247	0.8	-
Echocardiographic Findings									
Coronary Artery Dilation/Aneurysm									
z-score > 2.5	+4.27	+2.61	-	+3.65	-	-	-	-	-
z-score 2-2.5	-	-	+2.12	-	-	+2.06	-	-	-
Ventricular Dysfunction	No	Present	No	No	No	Present	No	No	
Pericardial Effusion	No	Small	Small	No	Small	Small	No	No	
Treatment									
Systemic Steroids	No	Yes	No	No	Yes	Yes	No	No	
Intravenous Immunoglobulin	Yes	Yes	Yes	Yes	No	Yes	Yes	No	
Enoxaparin	No	Yes	No	No	Yes	Yes	No	No	
Hospital Stay									
Intensive Care Unit Stay (Days)	-	11	-	-	-	6	-	-	
High Dependency Unit/Isolation Stay (Days)	11	-	4	10	7	-	8	2	
Outcome	Discharged	Died	Discharged	Discharged	Discharged	In Patient	In Patient	Discharged	

MIS-C: Multisystem Inflammatory Syndrome in Children, PIMS- TS: Paediatric Multisystem Inflammatory Syndrome–Temporally Associated with SARS-CoV-2, RT-PCR: Reverse transcriptase polymerase chain reaction

Table 2: Patient Characteristics, Clinical Features, Management and Outcome Of Major Case Series

Parameter		Our Experience Sadiq M et al (MIS-C)	Italian Experience Verdoni L et al ² (Kawasaki like disease)	UK Experience Davies P et al ⁹ (PIMS-TS)	France & Switzerland Experience Belhadjer Z et al ⁴ (MIS-C)	USA Experience Feldstein LR et al ⁶ (MIS-C)
Total no. Of patients		8	10	78	35	186
Age: Median (IQR)- year		9.5 (8-10.5)	7.5 (4-10.5)	11 (8-14)	10 (2-16)	8.3 (3.3-12.5)
Sex: Male sex- no. (%)		7 (87.5)	7 (70)	52 (67)	18 (51)	115 (62)
Comorbidities- no. (%)		0 (0)	Not available	17 (22)	10 (28)	51 (27)
Ethnic Background – no. (%)	Afro-Caribbean/ Black	0 (0)	Not available	37 (47)	Not available	46 (25)
	Asian/ other	8 (100)	Not available	22 (28)	Not available	9 (5)
	Hispanic or Latino	0 (0)	Not available	0	Not available	57 (31)
	White	0 (0)	8 (80)	17 (22)	Not available	35 (19)
Type of Presentation - no. (%)	Classic / Atypical KD	6 (75)	5 (50)	0 (0)	0 (0)	74 (40)
	MIS-C/ PIMS-TS with Shock	2 (25)	5 (50)	68 (87)	35 (100)	112 (60)
Clinical Features - no. (%)	Fever	8 (100)	10 (100)	78 (100)	35 (100)	186 (100)
	GI symptoms	6 (75)	6 (60)	70 (90)	29 (83)	171 (92)
	Neurological involvement	3 (37.5)	4 (40)	Not available	11 (31)	12 (6.5)
	Hypotension/shock	2 (25)	5 (50)	68 (87)	28 (80)	
	Conjunctivitis	7 (87.5)	8 (80)	23 (29)	31 (89)	103 (55)
	Peripheral extremity changes		7 (70)	Not available	Not available	69 (37)
	Polymorphic rash	5 (62.5)	8 (80)	35 (45)	20 (57)	110 (59)
	Oral mucosal changes	5 (62.5)	6 (60)	Not available	19 (54)	78 (42)
Echo Findings - no. (%)	Cervical lymphadenopathy	2 (25)	1 (10)	Not available	21 (60)	18 (10)
	Ventricular function- LV (Ejection fraction <55%)	2 (25)	5 (50)	Not available	35 (100)	71 (38)
	Pericardial effusion	4 (50)	4 (40)	Not available	3 (8)	48 (26)
	Coronary abnormalities	5 (62.5)	2 (20)	28 (36)	6 (17)	15 (9)
SARS-Cov2 - no. (%)	RT-PCR	3 (37.5)	2 (20)	17 (22)	12 (34)	73 (41)
	Serology (IgG, IgM)	8 (100)	8 (80)	33/35 (42)	30 (86)	58 (31)
	Exposure to Covid-19 patient	6 (75)	5 (50)	33 (42)	13 (35)	55 (30)
Treatment and Outcome - no. (%)	IVIg	6 (75)	10 (100)	59 (76)	25 (71)	144 (77)
	Systemic steroids	3 (37.5)	8 (80)	57 (73)	12 (34)	91 (49)
	Invasive mechanical ventilation	1 (12.5)	2 (20)	36 (46)	22 (62)	37 (20)
	Anticoagulation	3 (37.5)	Not available	7 (9)	23 (65)	87 (47)
	ECMO	0 (0)	0 (0)	3 (4)	10 (28)	8 (4)
	Intensive care unit	2 (25)	2 (20)	78 (100)	35 (100)	148 (80)
	Deaths: n (%)	1 (12.5)	0 (0)	2 (2.6)	0 (0)	4 (2)

ECMO: Extracorporeal membrane oxygenation, GI: Gastrointestinal, IQR: interquartile range, IVIG: Intravenous immunoglobulin, KDSS: Kawasaki Disease Shock Syndrome, LV: Left ventricle, MIS-C: Multisystem Inflammatory Syndrome in Children, PIMS- TS: Paediatric Multisystem Inflammatory Syndrome–Temporally Associated with SARS-CoV-2, RT-PCR: Reverse transcriptase polymerase chain reaction