

RECENT HISTORY														
Has the child been admitted to hospital in the last 3 months?	Yes	No	Unknown	If yes, date of discharge from hospital	Y	Y	Y	Y	-	M	M	-	D	D
If yes, was it related to this illness episode, or for the same or similar problems?	Yes	No	Unknown	Detail:										
History of COVID-19 infection in the previous 4 weeks prior to current illness?				Yes - Lab confirmed	Yes - Clinically diagnosed			No	Unknown					
History of any respiratory infection in the previous 4 weeks prior to current illness?	Yes	No	Unknown	Detail:										
Any household member (or other contact) with confirmed COVID-19 in previous 4 weeks?	Yes	No	Unknown	Detail:										
Past history of Kawasaki disease?	Yes	No	Unknown	Family history of Kawasaki disease?	Yes	No	Unknown							

CO-MORBIDITIES, PAST HISTORY (complete when MIS-C is first suspected)									
Inflammatory or rheumatological disorder	Yes	No	Unknown	Asplenia	Yes	No	Unknown		
If yes, specify				Congenital or acquired immune suppression	Yes	No	Unknown		
Hypertension (age-appropriate)	Yes	No	Unknown	If yes, specify					
Other chronic cardiac disease	Yes	No	Unknown	Chronic kidney disease	Yes	No	Unknown		
If yes, specify				Chronic liver disease	Yes	No	Unknown		
Asthma	Yes	No	Unknown	Chronic neurological disorder	Yes	No	Unknown		
Tuberculosis	Yes	No	Unknown	Haematologic disorder	Yes	No	Unknown		
If yes, currently on TB treatment?	Yes	No	Unknown	If yes, specify					
Other chronic pulmonary disease	Yes	No	Unknown	Malignant neoplasm	Yes	No	Unknown		
If yes, specify				If yes, specify					
Diabetes	Yes, type 1	Yes, type 2	No	Unknown	HIV exposed? (in utero)	Yes	No	Unknown	
Other underlying illness, specify				HIV infected?	Yes (on ART)	Yes (not on ART)	No	Unknown	

PRE-ADMISSION AND CHRONIC MEDICATION - Were any of the following taken within 14 days of admission: (complete when MIS-C is first suspected)									
Non-steroidal anti-inflammatory (NSAID)?	Yes	No	Unknown	If yes, specify name	Route:	Oral/rectal	Parenteral (IM/IV)	Unknown	
Steroids?	Yes	No	Unknown	If yes, specify name	Route:	Oral/rectal	Parenteral (IM/IV)	Unknown	
Antibiotics?	Yes	No	Unknown	If yes, specify name	Route:	Oral/rectal	Parenteral (IM/IV)	Unknown	
Any other medication?	Yes	No	Unknown	If yes, specify name	Route:	Oral/rectal	Parenteral (IM/IV)	Unknown	

LABORATORY RESULTS (complete with results of tests ordered at the time MIS-C is first suspected) (* record units if different from those listed). (if Not Available write 'N/A'):									
Parameter	Value*	Not done	Parameter	Value*	Not done	Parameter	Value*	Not done	
Markers of inflammation/coagulopathy / Markers of organ dysfunction									
Haemoglobin (g/L)			Lymphocytes ($\times 10^9/L$)			Sodium (mmol/L)			
Total WBC count ($\times 10^9/L$)			Neutrophils ($\times 10^9/L$)			Potassium (mmol/L)			
Haematocrit (%)			Monocytes ($\times 10^9/L$)			Urea (mmol/L)			
Pro-BNP (pg/mL)			Platelets ($\times 10^9/L$)			Creatinine ($\mu\text{mol/L}$)			
Prothrombin Time (seconds)			Total bilirubin ($\mu\text{mol/L}$)			Lactate (mmol/L)			
LDH (U/L)			Total protein (g/dL)			Total cholesterol (mmol/L)			
CRP (mg/L)			Albumin (g/dL)			Triglycerides (mmol/L)			
ESR (mm/hr)			ALT (U/L)			INR			
Procalcitonin (ng/mL)			AST (U/L)			APTT/APTR			
Total bilirubin ($\mu\text{mol/L}$)			Glucose (mmol/L)			Fibrinogen (g/L)			
D-dimer (mg/L)			Creatine kinase (U/L)			COVID-19 (PCR)			
Ferritin (ng/mL)			Troponin (ng/mL)			COVID-19 (serology/antigen)			

Multisystem Inflammatory Syndrome (MIS-C) Case Reporting Form

{Section 90 (1) (j), (k) and (w) of National Health Act, 2003 (Act no. 61 of 2003)}

This form must be **completed immediately** by the health care provider who diagnosed the condition

Please mark applicable areas with an X

IMAGING AND PATHOGEN TESTING (complete when results of tests ordered at the time MIS is first suspected are available)																			
Chest X-ray/CT performed	Yes / No /Unknown	If yes, findings																	
ECG performed?	Yes / No /Unknown	On that ECG what were the findings?																	
Echocardiography performed	Yes / No /Unknown	If yes, features of myocardial dysfunction?	Yes / No /Unknown	Cardiac failure?	Yes / No /Unknown	Minimum ejection fraction (%)													
Features of pericarditis?	Yes / No /Unknown	Features of valvitis?		Yes / No /Unknown	Specify														
Coronary abnormalities?	Yes / No /Unknown	If yes specify							Max coronary Z score										
Other cardiac imaging performed	Yes / No /Unknown	If yes, specify name of imaging and results																	
Bacterial pathogen testing	Bacterial pathogen		Positive / Negative / Not done	If positive, specify:			Date of Test:			Y	Y	Y	Y	-	M	M	-	D	D
SARS-CoV-2 testing	RT-PCR		Positive / Negative / Not done	Site of specimen collection:			Date of Test:			Y	Y	Y	Y	-	M	M	-	D	D
	Rapid antigen test		Positive / Negative / Not done	If done, titres:			Date of Test:			Y	Y	Y	Y	-	M	M	-	D	D
	Rapid antibody test		Positive / Negative / Not done	If done, titres:			Date of Test:			Y	Y	Y	Y	-	M	M	-	D	D
	ELISA		Positive / Negative / Not done				Date of Test:			Y	Y	Y	Y	-	M	M	-	D	D
	Neutralization test		Positive / Negative / Not done	If done, titres:			Date of Test:			Y	Y	Y	Y	-	M	M	-	D	D
Other test?	Specify:			Results:															
If no pathogen testing: Clinically diagnosed COVID-19?		Yes /No /Unknown	Comment:																

TREATMENT: at any time during the hospital admission, did the patient receive any of the following:											
Oral/orogastric fluids?	Yes	No	Unknown	Intravenous fluids?	Yes	No	Unknown				
Antiviral?	Yes	No	Unknown	If yes: Ribavirin /Lopinavir/Ritonavir /Neuraminidase inhibitor /Tocilizumab /Anakinra /Ivermectin /Interferon alpha /Interferon beta /Remdesivir /Other, specify:							
Corticosteroid (not topical)?	Yes	No	Unknown	If yes, specify name; max daily dose; date commenced; duration:	Name	Maximum daily dose (mg)	Date commenced: YYYY-MM-DD	Duration (days)			
1st dose IV immune globulin?	Yes	No	Unknown	If yes, daily dose, date commenced, duration	Name	Daily dose (g)	Date commenced: YYYY-MM-DD	Duration (days)			
Required 2 nd dose IV immune globulin?	Yes	No	Unknown	If yes, daily dose, date commenced, duration	Name	Daily dose (g)	Date commenced: YYYY-MM-DD	Duration (days)			
Immunomodulators?	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
Antibiotics?	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
Antifungal agents?	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
Antimalarial agent?	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
Experimental agent?	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
Non-steroidal anti-inflammatory (NSAID)?	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
Systemic anticoagulation?	Yes	No	Unknown	If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Date commenced: YYYY-MM-DD	Duration (days)		
Other?				If yes, specify name, route (oral/parental), date commenced, duration	Name	Oral	Parenteral	Name			

Multisystem Inflammatory Syndrome (MIS-C) Case Reporting Form

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SUPPORTIVE CARE: at any time during the hospital admission, did the patient receive any of the following:				
ICU or high dependency unit admission?	Yes	No	Unknown	Number of days in ICU:
Oxygen supplementation therapy?	Yes	No	Unknown	If yes, max O ₂ flow If yes, interface (Nasal prongs / HF nasal cannula / Mask / Mask with reservoir / CPAP/NIV mask / Unknown) If yes, number of days of oxygen therapy?
Prone positioning?	Yes	No	Unknown	If yes, duration
Non-invasive ventilation? (any e.g. BiPAP/CPAP)	Yes	No	Unknown	If yes, prone position? If yes, duration in days?
Inotropes/vasopressors?	Yes	No	Unknown	If yes, specify name:
Renal replacement therapy (RRT) or dialysis?	Yes	No	Unknown	If yes, total duration in days

OUTCOME (complete at the time of discharge/death)											
Outcome	Discharged alive			Hospitalized			Transfer to other facility		Death	Left against medical advice	Unknown
Outcome date:	Y	Y	Y	Y	-	M	M	-	D	D	
If discharged alive	Care needs at discharge versus before illness:			Same as before illness			Worse		Better		Unknown
What is the physician's impression of the final diagnosis?											
Multisystem inflammatory syndrome	Yes / No / Unknown - Comment										
Kawasaki disease	Yes / No / Unknown - Comment										
Incomplete Kawasaki disease	Yes / No / Unknown - Comment										
Toxic shock syndrome	Yes / No / Unknown - Comment										
Other, specify	Yes / No / Unknown - Comment										
Were there any sequelae present at the time of discharge? If yes, specify											

Send to NMCsurveillanceReport@nicd.ac.za or fax to 086 639 1638 or NMC hotline 072 621 3805