

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*



Complete this module for all children aged 0-19 suspected to have multisystem inflammatory syndrome of childhood (MIS-C)

	-				-											
Health facility name:								Hea	oth facility co	ontact number:		Health district:				
Patient file/folder number:											Date of notification:	Y Y Y Y	-	M	-	D D
PATIENT DEMOGRAPHICS										PATIENT RESIDE	NTIAL ADDRESS					<u> </u>
First name:										Street/dwelling un	t/building/ERF number:					
Surname:											ing, location description:					
RSA ID / Passport number:										Sub-place, suburb	, village, postal area:					
Citizenship:										Town/city						
Ethnic group:	Black/African	Coloure	ed	Indian/Asian	١	Nhite		Other		EMPLOYER / ED	JCATIONAL INSTITUTION ADDRES	S				
Date of birth:	Y Y	Y	Y	- M	N	N	-	D	D	Institution name:						
Age:	Yea	ars	Mon	ths (if less than 1	year)	Day	/s (if less t	than 1 mon	nth)	Street name, build	ing, location description:					
Gender:	Male		Female		Self-d	efined				Sun-place, suburb	, village, postal area:					
Contact number:			Alte	native number:						Town/city:						
NEXT OF KIN										Contact number:						
Name:										NOTIFYING HEA	TH CARE PROVIDER'S DETAIL					
Surname:										First Name:		Email address:				
Relationship to the patient:										Surname:		SANC/HPCSA r	umber			
Contact number:										Mobile number:		Signature:				

DATE OF ONSET OF CURREN	NT ILLNESS	AND VITAL	SIGNS (o	omplete wh	nen MIS-C is fi	rst suspect	ed)													
Date of onset of first symptom of	or sign	D	D	-	M M	-	Y	Y	Y Y	Date of onset	of fever		D	D	-	/ M	-	Y	Y Y	Y
Temperature:			°C	Heart rate:				beats/min	Respiratory r	ate:		breaths/min	BP				(systolic)		(diastolic) mmHg
Dehydration:	Severe			Some		None			Capillary refi	time >2 second	6	Yes			No			Unkno	wn	
Oxygen saturation:			% on	Room a	ir Oxy	gen therapy		Unknown	Conscious st	ate:	Alert	Response t	o verbal stimu	ıli	Respor	se to painfu	stimuli	l	Inresponsive	
Mid-upper arm circumference (children >6 n	nonths)			mr	Lengt	h / Heigh	t				cm	Weight							kg

POSSIBLE SIGNS AND SYMPTOMS OF MIS-C (complete w	hen MIS-C is first suspected)								
Fever (measured or self-reported)	Yes	No	Unknown	Duration of fever		days		Maximum fever	De
Rash	Yes	No	Unknown	If yes, type of rash					
Oral mucosal inflammation signs	Yes	No	Unknown	Vomiting		Yes		No	Unknown
Peripheral cutaneous inflammation signs (hands or feet)	Yes	No	Unknown	Hypotension (age-appropriate)		Yes		No	Unknown
Tachycardia (age-appropriate)	Yes	No	Unknown	Prolonged capillary refill time		Yes		No	Unknown
Pale/mottled skin	Yes	No	Unknown	Cold hands/feet		Yes		No	Unknown
Urinary output <2 mL/kg/hr	Yes	No	Unknown	Chest pain		Yes		No	Unknown
Tachypnoea (age-appropriate)	Yes	No	Unknown	Respiratory distress		Yes		No	Unknown
Abdominal pain	Yes	No	Unknown	Diarrhoea		Yes		No	Unknown
Bilateral conjunctivitis	Yes, purulent	Yes, non-purulent	No	Unknown					
OTHER SIGNS AND SYMPTOMS (complete when MIS-C is	first suspected)								
Cough	Yes	No	Unknown	Fatigue/malaise		Yes		No	Unknown
Sore throat	Yes	No	Unknown	Seizures		Yes		No	Unknown
Runny nose	Yes	No	Unknown	Headache		Yes		No	Unknown
Wheezing	Yes	No	Unknown	Hypotonia/floppiness		Yes		No	Unknown
Swollen joints	Yes	No	Unknown	Paralysis		Yes		No	Unknown
Cervical lymphadenopathy	Yes	No	Unknown	Irritability		Yes		No	Unknown
Joint pain (arthralgia)	Yes	No	Unknown	Photophobia		Yes		No	Unknown
Muscle aches	Yes	No	Unknown	Hyposmia/anosmia (loss of smell)		Yes		No	Unknown
Skin ulcers	Yes	No	Unknown	Hypogeusia (loss of taste)		Yes		No	Unknown
Stiff neck	Yes	No	Unknown	Not able to drink		Yes		No	Unknown
Other? Specify				Bleeding(haemorrhage)	Yes		No	Unknown	
				If yes, specify site					



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RECENT HISTORY																	
Has the child been admitted to hospital in the last 3 months?	Yes		No		Unł	known	If yes, date	of discharge from hospital	Y	Y	Y	Y	-	M	Μ	-	D D
If yes, was it related to this illness episode, or for the same or similar pro	blems?	Yes	/ No	/ Unknow	'n	Detail:											
History of COVID-19 infection in the previous 4 weeks prior to current illn	ess?			Yes – La	ab confirn	ned		Yes - Clinically diagnosed				No				U	nknown
History of any respiratory infection in the previous 4 weeks prior to cur	rent illness?	Yes	/ No	/ Unknowi	'n	Detail:											
Any household member (or other contact) with confirmed COVID-19 in	n previous 4 weeks?	Yes	/ No	/ Unknow	'n	Detail:											
Past history of Kawasaki disease?		Yes	/ No	/ Unknow	'n	Family histo	ry of Kawasal	ki disease?	Yes	/ No	/ Unkn	own					

Inflammatory or rheumatological disorder	Yes		No	Unknown	Asplenia		Yes	No	Unknown
If yes, specify				<u>o</u> nation		immune suppression	Yes	No	Unknown
Hypertension (age-appropriate)	Yes		No	Unknown	If yes, specify				
Other chronic cardiac disease	Yes		No	Unknown	Chronic kidney diseas	e	Yes	No	Unknown
If yes, specify		•			Chronic liver disease		Yes	No	Unknown
Asthma	Yes		No	Unknown	Chronic neurological of	lisorder	Yes	No	Unknown
Tuberculosis	Yes		No	Unknown	Haematologic disorde	r	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		· · · · · ·		
					HIV exposed? (in uter	0)	Yes	No	Unknown
Diabetes	Yes, type 1	Yes, type 2	No	Unknown	HIV infected?	Yes (on ART)	Yes (not on ART)	No	Unknown
Other underlying illness, specify		•	•	•	•	•	· ·		•

PRE-ADMISSION AND CHRONIC MEDICA	TION - Were any of t	the following taken w	ithin 14 days of adm	nission: (complete when MI	S-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 test	s ordered at the time MIS-C i	s first suspected) (* record units if differe	ent from those listed)(if	Not Available write 'N/A'):			
Parameter	Value*	Not done	Parameter	Value*	Not done	Parameter	Value*	Not done
Markers of inflammation/coa	agulopathy / Markers	of organ dysfunction						
Haemoglobin (g/L)			Lymphocytes (x10 ⁹ /L)			Sodium (mmol/L)		
Total WBC count (x10 ⁹ /L)			Neutrophils (x10 ⁹ /L)			Potassium (mmol/L)		
Haematocrit (%)			Monocytes (x10 ⁹ /L)			Urea (mmol/L)		
Pro-BNP (pg/mL)			Platelets (x10 ⁹ /L)			Creatinine (µmol/L)		
Prothrombin Time (seconds)			Total bilirubin (µmol/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 (µmol/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)		



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IMAGING AND PATHOGEN TESTI	NG (complet	te 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	/Unknov	vn	Mini	mum e	ejection	fractio	n (%)			
Features of pericarditis?	Yes	/ No	/Unknown	Features of valvitis?	Yes / No	/Unknown	Specify												
Coronary abnormalities?	Yes	/ No	/Unknown	If yes specify								Max	coron	iary Z s	core				
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 Te	est:	Y	Y	Y	Y	-	Μ	M	-	D	D
SARS-CoV-2 testing	RT-PCR			Positive / Negative / Not done	Site of specimen collection	:		Date of Te	est:	Y	Y	Y	Y	-	M	M	-	D	D
	Rapid ant	tigen test		Positive / Negative / Not done	If done, titres:			Date of Te	est:	Y	Y	Y	Y	-	M	M	-	D	D
	Rapid ant	tibody test		Positive / Negative / Not done	If done, titres:			Date of Te	est:	Y	Y	Y	Y	-	M	M	-	D	D
	ELISA			Positive / Negative / Not done				Date of Te	est:	Y	Y	Y	Y	-	Μ	M		D	D
	Neutraliza	ation test		Positive / Negative / Not done	If done, titres:			Date of Te	est:	Y	Y	Y	Y	-	M	M	-	D	D
Other test?	Specify:				Results:	-					•	•							
If no pathogen testing: Clinically dia	gnosed COV	/ID-19?	Yes	/No /Unknown	Comment:														

Oral/orogastric fluids?	Yes	No	Unknown	Intravenous fluids?	Y	es		No	Unknown
Antiviral?	Yes	No	Unknown	If yes: Ribavirin /Lopinavir/Ritonavir /Neuraminidase inhibitor	/Tocilizumab	/Anakinra	/lvermectin		
	100		o na o na o	/Interferon alpha /Interferon beta /Remdesivir /Other, spe		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
Corticosteroid (not topical)?	Yes	No	Unknown	If yes, specify name; max daily dose; date commenced; duration:	Name	Maximum	daily dose (mg)	Date commenced:	Duration (days)
,								YYYY-MM-DD	
1st dose IV immune globulin?	Yes	No	Unknown	If yes, daily dose, date commenced, duration	Name	Daily dose	e (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	e (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	



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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? If yes, max O₂ flow If yes, interface No Yes Unknown (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. If yes, prone position? Yes No Unknown **BiPAP/CPAP**) 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 ibn days

OUTCOME (complete at the time of discharge/death)												
Outcome		Discharged	alive		Hosp	italized		Transfer to of	her facility	Death	Left against medical advice	Unknown
Outcome date:	Y	Y	Y	Y	-	M	Μ	- D	D		·	
If discharged alive	Care ne	eds at disch	arge versus	before illne	SS:	Same	e as bef	ore illness		Worse	Better	Unknown
					What	is the physic	ian's in	pression of the fi	nal diagnosis?		· · ·	
Multisystem inflammatory syndrome	Yes / N	No / Unkno	wn - Comme	nt								
Kawasaki disease	Yes / N	No / Unkno	wn - Comme	nt								
Incomplete Kawasaki disease	Yes / N	No / Unkno	wn - Comme	nt								
Toxic shock syndrome	Yes / N	No / Unkno	wn - Comme	nt								
Other, specify	Yes / N	No / Unkno	wn - Comme	nt								
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