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Global COVID-19 Clinical Platform: Case Report Form for suspected cases of Multisystem inflammatory syndrome (MIS) in children and adolescents temporally related to COVID-19

	Р	re	lim	inary	case	definition
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Children and adolescents 0–19 years of age with fever ≥ 3 days

AND two of the following:

- a) Rash or bilateral non-purulent conjunctivitis or muco-cutaneous inflammation signs (oral, hands or feet)
- b) Hypotension or shock
- c) Features of myocardial dysfunction, or pericarditis, or valvulitis, or coronary abnormalities (ECHO findings or elevated Troponin/NT-proBNP)
- d) Evidence of coagulopathy (abnormal PT, PTT, elevated d-Dimers)
- e) Acute gastrointestinal problems (diarrhoea, vomiting or abdominal pain)

AND

Elevated markers of inflammation such as ESR, C-reactive protein or procalcitonin

AND

No other obvious microbial cause of inflammation, including bacterial sepsis, staphylococcal or streptococcal shock syndromes **AND**

Evidence of COVID (RT-PCR, antigen test or serology positive) or likely contact with patients with COVID

MODULE 1. Complete this form for all children aged 0–19 suspected to have multisystem inflammatory disorder (even if all criteria in the case definition are not met – to capture full spectrum of the condition). Initiate the form at the time the disorder is suspected. Submit Module 1 when initial investigations included in case definition are available.

Country_

	[_D_]/[_M_](_M_]/[_2_						
Date of admission to hospital [_D_][_D_]/[_M_][_M_]/[_2_][_0_][_Y_][_Y_]							
1a. CLINICAL FEATURES OF CURRENT ILLNESS (complete when MIS is first suspected)							
Fever □Yes □No	□Unknown						
Duration of fever days							
Rash □Yes □No	□Unknown						
Bilateral non-purulent conjunctivitis Oral mucosal inflammation signs	□Yes □No □Yes □No	□Unknown □Unknown					
Peripheral cutaneous inflammation sign	gns (hands or feet)	lYes □No □Unknown					
Hypotension (age-appropriate) Tachycardia (age-appropriate) Prolonged capillary refill time Pale/mottled skin Cold hands/feet Urinary output < 2 mL/kg/hr Chest pain Tachypnoea (age-appropriate) Respiratory distress	□Yes □No	□Unknown □Unknown □Unknown □Unknown □Unknown □Unknown □Unknown					
Abdominal pain Diarrhoea Vomiting	□Yes □No □Yes □No □Yes □No	□Unknown □Unknown □Unknown					



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1b. DEMOGRAPHICS (complete w	hen MIS is first suspected)					
Sex at birth □Male □Female □	Not specified. Date of birth	_D_](_D_]/[_M_](_M_](_Y_](_Y_)	(_][_Y_]			
If date of birth is unknown, record A	ge [][]years	OR [_][_]months				
Ethnicity (as reported by family) (pl	lease pre-specify main groups	in the population and choose from the	ne list)			
Has the child been admitted to ho	ospital in the last three mont	hs? □Yes □No □ Unknown				
If yes, date of discharge from hos	spital [_D_][_D_]/[_M_][_M_]/[_2_ <u>[_0_][_Y_][_Y_]</u>				
If yes, was it for the same or simi	lar problems? □Yes □No □	Unknown				
1c. DATE OF ONSET OF CURRENT IL	LNESSAND VITAL SIGNS (con	nplete when MIS is first suspected)				
Date of onset of first symptom or	sign [_D_][_D_]/[_M_][_M_]/[_					
Date of onset of fever [_D_][_D_]/[_M_][_M_]/[_2_][_0_][_Y_][_Y	_]				
Temperature [_][] [_]°C	Heart rate [][][]b	eats/min				
Respiratory rate [][]breaths,	/min					
BP [] [] (systolic) [][_][_](diastolic) mmHg	Dehydration □Severe □Son	me □None			
Capillary refill time > 2 seconds	□Yes □No □Unknown					
Oxygen saturation [][][]% o	n □Room air □Oxygen th	nerapy □Unknown				
Conscious state □Alert □Respo	onse to verbal stimuli □Resp	onse to painful stimuli ☐Unrespons	sive			
Mid-upper arm circumference [][]mm						
1d. CO-MORBIDITIES, PAST HISTORY, FAMILY HISTORY (complete when MIS is first suspected)						
Inflammatory or rheumatological disorder If yes, specify	□Yes □No □Unknown	Asplenia	□Yes □No □Unknown			
Hypertension (age-appropriate)	□Yes □No □Unknown	Congenital or acquired immune- suppression If yes, specify	□Yes □No □Unknown			
Other chronic cardiac disease If yes, specify	□Yes □No □Unknown	Chronic kidney disease	□Yes □No □Unknown			
Asthma	□Yes □No □Unknown	Chronic liver disease	□Yes □No □Unknown			
Tuberculosis	□Yes □No □Unknown	Chronic neurological disorder	□Yes □No □Unknown			
Other chronic pulmonary disease If yes, specify	□Yes □No □Unknown	HIV? □Yes (on ART) □Yes (not o	n ART) □No □Unknown ART			
Diabetes	□Yes □No □Unknown	Other? If yes, specify				
Malignant neoplasm	□Yes □No □Unknown	Past history of Kawasaki disease	□Yes □No □Unknown			
Haematologic disorder	□Yes □No □Unknown	Family history of Kawasaki disease	□Yes □No □Unknown			
History of respiratory infection in the previous 4 weeks prior to current illness?	□Yes □No □Unknown	Any household member (or other contact) with confirmed COVID-19 in previous 4 weeks?	□Yes □No □Unknown			
		Any household member (or other contact) with suspected COVID-19 in previous 4 weeks?	□Yes □No □Unknown			

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1e. PRE-ADMISSION AND CHRONIC MEDICATION Were any of the following taken within 14 days of admission: (complete when MIS is first suspected)								
Non-steroidal anti-inflamn If yes, specify name	• .	, –	Yes ; Route		Unknown □Parenteral (IM/IV)	□Inhaled	□Topical	□Unknown
Steroids? □Yes □No □U If yes, specify name			; Route	□Oral/rectal	□Parenteral (IM/IV)	□Inhaled	□Topical	□Unknown
Any other medication? If yes, specify name If yes, specify name If yes, specify name			; Route	□Oral/rectal	□Parenteral (IM/IV)	□Inhaled	□Topical □Topical □Topical	□Unknown □Unknown □Unknown
1f. OTHER SIGNS AND (complete when MIS is fit		•	ition to	clinical featur	res on page 1)			
Cough	□Yes □	No □Un	known	Fatigue/ma	laise	□Ye	s □No	□Unknown
Sore throat	□Yes □	No □Un	known	Seizures		□Ye	s □No	□Unknown
Runny nose	□Yes □	No □Un	known	Headache		□Ye	s □No	□Unknown
Wheezing	□Yes □	No □Un	known	Hypotonia/f	loppiness	□Ye	s □No	□Unknown
Swollen joints	□Yes □	No □Un	known	Paralysis		□Ye	es □No	□Unknown
Joint pain (arthralgia)	□Yes □	No □Un	known	Hyposmia/a	anosmia (loss of smel	I) □Ye	es □No	□Unknown
Muscle aches	□Yes □	No □Un	known	Hypogeusia	a (loss of taste)	□Ye	s □No	□Unknown
Skin ulcers	□Yes □	No □Un	known	Bleeding (h	aemorrhage)	□Ye	es □No	□Unknown
Stiff neck	□Yes □	No □Un	known	Not able to	drink	□Y€	es □No	□Unknown
Other? Specify				If yes, spec	cify site			

1g. LABORATORY RESULTS

(complete when results of tests ordered at the time MIS is first suspected) (* record units if different from those listed)

Parameter	Value*	Not done	Parameter	Value*	Not done			
Markers of inflammation/coa	agulopathy		Markers of organ dysfunction					
Haemoglobin (g/L)			Creatinine (µmol/L)					
Total WBC count (x109/L)			Sodium (mEq/L)					
Neutrophils (x109/L)			Potassium (mEq/L)					
Lymphocytes (x10 ₉ /L)			Urea (BUN) (mmol/L)					
Haematocrit (%)			Glucose (mmol/L)					
Platelets (x10 ₉ /L)			Pro-BNP (pg/mL)					
APTT/APTR			Troponin (ng/mL)					
PT (seconds)			Creatine kinase (U/L)					
INR			LDH (U/L)					
Fibrinogen (g/L)			Triglycerides					
Procalcitonin (ng/mL)			ALT/SGPT (U/L)					
CRP (mg/L)			Total bilirubin (µmol/L)					
ESR (mm/hr)			AST/SGOT (U/L)					
D-dimer (mg/L)			Albumin (g/dL)					
IL-6 (pg/mL)			Lactate (mmol/L)					
Ferritin (ng/mL)								



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In. IWAGING AND P						
(complete when resul	ts of tests orde	red at the time	MIS is firs	st suspected are a	available)	
Chest X-ray/CT perf	ormed □Yes	□No	□Unkn	nown If yes,	findings	
Echocardiography p				□Unknown		
If yes, features of				□No □Unk	nown	
	pericarditis?			□Unknown		
features of				□Unknown		
=	bnormalities?			□Unknown		
Other cardiac imaging		⊔Yes L aging and resu		□Unknown		
Bacterial pathogen t		~gg and 1030				
Bacterial pathogen	_	□Negative	□Not	t done		
If positive, specify		55~0				
SARS-CoV-2 testing						
RT-PCR	□Positive	□Negative	□Not	t done Site of s	pecimen collection	_
Rapid antigen test	□Positive	□Negative			pecimen collection	
Rapid antibody test	□Positive	□Negative	□Not	t done		
ELISA	□Positive	□Negative			titres	
Neutralization test	□Positive	□Negative		,	titres	
Other test? Specify _		-				
4		,,				
				the patient recei	ve any of the following:	
Oral/orogastric fluid	s? □Yes	□No □	Unknown			
Intravenous fluids?	□Yes	□No □l	Jnknown			
Antiviral?	□Yes	□No □U	Jnknown			
If yes ORibavirin O	Lopinavir/Ritor	navir O Neura	minidase	inhibitor O Toci	lizumab OAnakinra OI	vermectin
OInterferon alpha O	Interferon beta	• • • Remd	esivir	O Othe	er, specify	
Corticosteroid?			Jnknown			
					teral (IM/IV) □Inhaled □1	Γopical □Unknown
If yes, please provide		y dose				
IV immune globulin			Jnknown			
If yes, daily dose		; Numbei	r of days o	of treatment		
Immunomodulators			Jnknown			
If yes, specify name _		; Route	e □Oral/	′rectal □Par	renteral (IM/IV) □Ur	nknown
Antibiotic?	□Yes		Jnknown			
If yes, specify name _				□Oral/rectal	□Parenteral (IM/IV)	□Unknown
Antifungal agent?			Jnknown	50 11 11	ED : 1/21/22	
If yes, specify name _				□Oral/rectal	□Parenteral (IM/IV)	□Unknown
Antimalarial agent?			Jnknown		f yes, specify	
If yes, specify name _				□Oral/rectal	□Parenteral (IM/IV)	□Unknown
Experimental agent			Jnknown		yes, specif	
If yes, specify name _				□Oral/rectal	□Parenteral (IM/IV)	□Unknown
Non-steroidal anti-ir		· ·	□Yes		known	
If yes, specify name				□Oral/rectal	□Parenteral (IM/IV)	□Unknown
Systemic anticoagu						—
If yes, specify name _		; Ro	oute	□Oral/rectal	□Parenteral (IM/IV)	□Unknown
Other? □Yes □No □		_		50 //	—	
If yes, specify name				□Oral/rectal	□Parenteral (IM/IV)	□Unknown
If yes, specify name _ If yes, specify name _				□Oral/rectal □Oral/rectal	□Parenteral (IM/IV) □Parenteral (IM/IV)	□Unknown □Unknown
in yes, specify fiaitile_		, KC	Jule		הו מופותפומו (וועו/וע)	LOURINGWII
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1j. SUPPORTIVE CARE: until the time of repo	orting Module 1, did the patient receive any of the following:						
ICU or high dependency unit admission?	□Yes □No □Unknown						
If yes, number of days in ICU							
Oxygen therapy?	□Yes □No □Unknown						
If yes, O₂ flow □1-5 L/min □6-10 L/min □11-15 L/min □>15 L/min □Unknown							
If yes, interface □Nasal prongs □HF nasal cannula □Mask □Mask with reservoir □CPAP/NIV mask □Unknown							
If yes, number of days of oxygen therapy?							
Non-invasive ventilation? (e.g. BiPAP/CPAF	.P) □Yes □No □Unknown						
If yes, prone position? □Yes □No □Unknown							
If yes, duration in days?							
Invasive ventilation (any)? □Yes □No	o						
If yes, maximum PEEP (cm H ₂ O); FiC	O ₂ (%); Plateau pressure (cm H ₂ O); P _a CO ₂ ; P _a O ₂						
If yes, duration in days?							
Inotropes/vasopressors? □Yes □No	o						
If yes, specify name							
Extracorporeal (ECMO) support? □Ye	es □No □Unknown						
Plasma exchange? □Ye	es □No □Unknown						
HFOV? □Ye	es □No □Unknown						
Blood transfusion? □Ye	es □No □Unknown						





MODULE 3. Complete and submit this module at the time of discharge or death

3a. SUMMARY OF CLINICAL FEATURES OF CURRENT ILLNESS (include all signs identified any time between admission and discharge/ death)							
Fever □Yes □No □Unknown Duration of fever days							
Rash							
Hypotension (age-appropriate)	□Yes	□No	□Unknown				
		□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				
Vomiting	□Yes	□No	□Unknown				

3b. LABORATORY RESULTS

(record the most abnormal result during the hospital admission up to the time of discharge/death) (*record units if different from those listed)

Parameter	Value*	Not done	Parameter	Value*	Not Done		
Markers of inflammation/coagulopathy			Markers of organ dysfunction				
Haemoglobin (g/L)			Creatinine (µmol/L)				
Total WBC count (x109/L)			Sodium (mEq/L)				
Neutrophils (x10 ₉ /L)			Potassium (mEq/L)				
Lymphocytes (x10 ₉ /L)			Urea (BUN) (mmol/L)				
Haematocrit (%)			Glucose (mmol/L)				
Platelets (x10 ₉ /L)			Pro-BNP (pg/mL)				
APTT/APTR			Troponin (ng/mL)				
PT (seconds)			Creatine kinase (U/L)				
INR			LDH (U/L)				
Fibrinogen (g/L)			Triglycerides				
Procalcitonin (ng/mL)			ALT/SGPT (U/L)				
CRP (mg/L)			Total bilirubin (µmol/L)				
ESR (mm/hr)			AST/SGOT (U/L)				
D-dimer (mg/L)			Albumin (g/dL)				
IL-6 (pg/mL)			Lactate (mmol/L)				
Ferritin (ng/mL)							



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3c. IMAGING/PATHOGEN TESTING (include the most abnormal results from admission up to the time of discharge/death)								
Chest X-ray/CT perfor	Chest X-ray/CT performed □Yes □No □Unknown		known If	yes, findings				
Echocardiography performed □Yes □No □ Unknown If yes, features of myocardial dysfunction? □Yes □No □ Unknown features of pericarditis? □Yes □No □ Unknown features of valvulitis? □Yes □No □ Unknown coronary abnormalities? □Yes □No □ Unknown								
Other cardiac imaging If yes, specify name								
Bacterial pathogen tes	sting							
Bacterial pathogen	□Positive	□Negative	□Not done					
If positive, specify								
SARS-CoV-2 testing								
RT-PCR	□Positive	□Negative	□Not done	Site of specin	nen collection			
Rapid antigen test	□Positive	□Negative	□Not done	Site of specin	nen collection			
Rapid antibody test	□Positive	□Negative	□Not done					
ELISA	□Positive	□Negative	□Not done	If done, titres				
Neutralization test		· ·	□Not done					
Other test? Specify		Res	ults					
3d. TREATMENT: at all	ny time duri	ng the hospi	tal admission, d	id the patient recei	ve any of the following:			
Oral/orogastric fluids	? □Yes	□No [∃Unknown					
Intravenous fluids?	□Yes	□No [⊒Unknown					
Antiviral?	□Yes	□No [∃Unknown					
If yes ORibavirin OLo	opinavir/Ritor	navir O Neu	raminidase inhibit	tor O Tocilizumab	OAnakinra Olvermectin			
OInterferon alpha OIn			ndesivir	OOther,	specify			
Corticosteroid? If yes, specify name	□Yes	□No · Ro	□Unknown	□Parenteral (IM/I\	/) □Inhaled □Topical □Unknown			
If yes, please provide m				archierar (iiwiri	7) Elimated Eliopted Elemateur			
IV immune globulin?	□Yes		⊒Unknown					
If yes, daily dose Immunomodulators?			er of days of trea ⊒Unknown	atment				
If yes, specify name	□Yes			□Parenteral (IM/I\	/) □Unknown			
Antibiotic?	□Yes		Unknown	[]Orol/22 24-1 []D	renteral (IM/IV)			
If yes, specify name Antifungal agent?	□Yes		Route ⊒Unknown	□Oral/rectal □Pa	renteral (IM/IV) □Unknown			
If yes, specify name			Route	□Oral/rectal	□Parenteral (IM/IV) □Unknown			
Antimalarial agent? If yes, specify name	□Yes		⊒Unknown Route	If yes, specify □Oral/rectal	 □Parenteral (IM/IV) □Unknown			
· · · ·	□Yes		∃Unknown Route	If yes, specify	` '			
Non-steroidal anti-infl		,			aromora, (mary)orintown			
If yes, specify name		; F		□Oral/rectal	□Parenteral (IM/IV) □Unknown			
Systemic anticoagulat			⊒Unknown	FIG. 1/	FID			
If yes, specify name Other?	□Yes		Route ⊒Unknown	□Oral/rectal	□Parenteral (IM/IV) □Unknown			
If yes, specify name			Route	□Oral/rectal	□Parenteral (IM/IV) □Unknown			



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3e. 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 If yes, number of days in ICU							
Oxygen therapy?							
(-3	Yes Yes	□No □Unknown □No □Unknown					
1 2/	Yes ; P	□No □Unknown Plateau pressure (cm H ₂ O); P _a CO ₂ ; P _a O ₂					
Inotropes/vasopressors?	Yes	□No □Unknown					
Extracorporeal (ECMO) support?	□No □Unknown						
Plasma exchange? □Yes □I	No	□Unknown					
	No	□Unknown					
Blood transfusion? □Yes □I	No	□Unknown					
3f. OUTCOME (complete at the time of discharge/death)							
Outcome □Discharged alive □Hospitalized □Transfer to other facility □Death □Left against medical advice □Unknown							
Outcome date [_D_][_D_]/[_M_][_M_]/[_2_][_0_][_Y_][_Y_]							
If discharged alive							
Care needs at discharge versus before illness □Same as before illness □Worse □Better □Unknown							
What was the physician's impression of the final diagnosis?							
Multisystem inflammatory syndrome □Yes	□No	□Unknown					
Kawasaki disease □Yes	□No	□Unknown					
Atypical Kawasaki disease □Yes	□No	□Unknown					
Other, specify							
Were there any sequelae present at the time of discharge. If yes, specify							