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

Preliminary case definition

Children and adolescents 0–19 years of age with measured or self-reported fever ≥ 3 days

AND at least 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

Facility name

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

NB Consider this syndrome in children with features of typical or atypical Kawasaki disease or toxic shock syndrome.

MODULE 1. Complete this module 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 the full spectrum of the condition). Complete the module at the time the disorder is suspected. Submit module when initial investigations included in case definition are available

Country

Date of patient assessment	_D_ _D_ /_M_ _M_ /_2_ _0_ _Y_ _Y_]
Date of admission to hospital	D] D]/ [M] [M]/ [2] [0] [Y] [Y]
1a. DEMOGRAPHICS (complete v	vhen MIS is first suspected)
Sex at birth □Male □Female □	Not specified. Date of birth [D][D]/[M][M]/[Y][Y][Y][Y]
If date of birth is unknown, record A	ge [][]years OR [][]months
Ethnicity (as reported by family) (ple	ease pre-specify main groups in the population and choose from the list)
1b. DATE OF ONSET OF CURRE	NT ILLNESS AND VITAL SIGNS (complete when MIS is first suspected)
Date of onset of first symptom o	r sign [D][D]/[M][M]/[2][0][Y][Y]
Date of onset of fever [_D_][_D_]	/ <u>[M_][M_]/[2_][0_][Y_][Y_]</u>
Temperature [][] []°C	Heart rate [][]beats/min
Respiratory rate []breath	s/min
BP [] [] (systolic) []]_](diastolic)mmHg
Capillary refill time > 2 seconds	□Yes □No □Unknown
Oxygen saturation [][][]%	on □Room air □Oxygen therapy □Unknown
Conscious state □Alert □Resp	oonse to verbal stimuli □Response to painful stimuli □Unresponsive
Mid-upper arm circumference [][]mm



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1c. POSSIBLE SIGNS AND SYMPTOMS OF MUL suspected)	TISYSTEM INFLAMMATORY SYNDROME (complete when MIS is first						
Fever (measured or self-reported)	□No □Unknown						
Duration of fever days							
	type of rash						
	, non-purulent □No □Unknown						
Oral mucosal inflammation signs □Yes □No	□Unknown						
Peripheral cutaneous inflammation signs (hands	•						
Hypotension (age-appropriate) □Yes							
Tachycardia (age-appropriate) □Yes							
Prolonged capillary refill time ☐Yes Pale/mottled skin ☐Yes							
Cold hands/feet							
Urinary output < 2 mL/kg/hr □Yes							
Chest pain □Yes							
Tachypnoea (age-appropriate)							
Respiratory distress □Yes □No □Unk	MIUWII						
Abdominal pain □Yes	s □No □Unknown						
Diarrhoea □Yes							
Vomiting □Yes	s □No □Unknown						
1d. OTHER SIGNS AND SYMPTOMS (complete v	when MIS is first suspected)						
Cough □Yes □No □Unkno	wn Fatigue/malaise □Yes □No □Unknown						
Sore throat □Yes □No □Unkno	wn Seizures □Yes □No □Unknown						
Runny nose □Yes □No □Unkno	wn Headache □Yes □No □Unknown						
Wheezing □Yes □No □Unknor	wn Hypotonia/floppiness □Yes □No □Unknown						
Swollen joints □Yes □No □Unkno	wn Paralysis □Yes □No □Unknown						
Cervical □Yes □No □Unknot lymphadenopathy	own Irritability □Yes □No □Unknown						
Joint pain (arthralgia) □Yes □No □Unkno	Photophobia □Yes □No □Unknown						
Muscle aches □Yes □No □Unkno							
Skin ulcers	71 0						
Stiff neck	wn Not able to drink						
Other? Specify	Bleeding (haemorrhage) □Yes □No □Unknown						
	If yes, specify site						
1e. RECENT HISTORY							
as the child been admitted to hospital in the las	t 3 months? □Yes □No □ Unknown						
yes, date of discharge from hospital <code>_D_][D_]</code>]/ <u>[M][M]/[2][0][Y][Y]</u>						
•	the same or similar problems? □Yes □No □ Unknown						
istory of COVID-19 infection in the previous 4 w							
•	Yes - Lab confirmed □Yes - Clinically diagnosed □No □Unknown						
	us 4 weeks prior to current illness? □Yes □No □ Unknown						
	•						
ny household member (or other contact) with co Past history of Kawasaki disease? □Yes □No l	onfirmed COVID-19 in previous 4 weeks? □Yes □No □Unknown □ Unknown						
amily history of Kawasaki disease? □Yes □No □ Unknown							



D-dimer (mg/L)

IL-6 (pg/mL)

IL-10 (pg/mL)

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1f. CO-MORBIDITIES, PAST HISTORY (complete when MIS is first suspected)									
Inflammatory or rheumatologi disorder If yes, specify	cal □Yes □No	□Unknown	Asplenia	□Yes	□No □Unknown				
Hypertension (age-appropriat	e) □Yes □No	□Unknown	Congenital or acquired im suppression If yes, specif		□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 diso	rder □Yes	□No □Unknown				
Other chronic pulmonary dise. If yes, specify	ase □Yes □No	□Unknown	Haematologic disorder	□Yes	□No □Unknown				
Diabetes		□Yes type 2 □Unknown	HIV □Yes (on ART) □Ye	s (not on ART) □N	o □Unknown				
Malignant neoplasm	□Yes □No	□Unknown	Other? If yes, specify						
1g. PRE-ADMISSION AND Co Were any of the following to			complete when MIS is first	suspected)					
Non-steroidal anti-inflammatory (NSAID)?									
Steroids? □Yes □No □Unknown If yes, specify name; Route □Oral/rectal □Parenteral (IM/IV) □Inhaled □Topical □Unknown									
Antibiotics? □Yes □No □Unknown If yes, specify name; Route □Oral/rectal □Parenteral (IM/IV) □Unknown									
Any other medication? □Yes If yes, specify name If yes, specify name If yes, specify name	; R ; R	oute □Oral/rect	tal □Parenteral (IM/IV) □	Inhaled □Topic	al □Unknown				
1h. LABORATORY RESULT (complete with results of tests Record the worst value between	ordered at the time				ted)				
Parameter	Value*	Not done	Parameter	Value*	Not done				
Markers of inflammation/co	agulopathy		Markers of organ dysfu	nction					
Haemoglobin (g/L)			Creatinine (µmol/L)						
Total WBC count (x109/L)			Sodium (mmol/L)						
Neutrophils (x10 ⁹ /L)			Potassium (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)						
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Albumin (g/dL)

Ferritin (ng/mL)



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1i. 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	o □Unl	known	If yes, findings						
ECG performed? □Yes □No □ Unknown On that ECG what were the findings?									
Echocardiography performed □Yes If yes, features of myocardial dysfunction? features of pericarditis? □Yes features of valvulitis? □Yes coronary abnormalities? □Yes	□No □Yes □No □No □No	□Unknov □No □Unknov □Unknov	□Unknown wn wn						
Other cardiac imaging performed ☐Yes If yes, specify name of imaging and	□No results	□Unknov	wn						



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MODULE 2. Complete and submit this module at the time of discharge or death

2a. SUMMARY OF CLINICAL FEATURES OF CURRENT ILLNESS (include all signs identified any time between admission and discharge/death)										
Fever □Yes □No □Unknown Maximum temperature during the hospital admission (°C) (If not applicable write 'NA') Duration of fever during the admission days (If not applicable write 'NA')										
Rash □Yes □No [If yes type of rash	□Unknown									
Bilateral conjunctivitis Oral mucosal inflammation Peripheral cutaneous infla		∕es □N	lo [⊒Unknow	n					
Hypotension (age-approp		□Yes	□No		1Unknown					
Tachycardia (age-approp	,	□Yes	□No]Unknown					
Prolonged capillary refill ti Pale/mottled skin	me	□Yes	□No]Unknown					
Cold hands/feet		□Yes □Yes	□No]Unknown]Unknown					
Urinary output < 2 mL/kg/l	hr	□Yes	□No]Unknown					
, ,										
Chest pain		□Yes	□No]Unknown					
Tachypnoea (age-appropri	riate)	□Yes	□No]Unknown					
Respiratory distress		□Yes	□No)]Unknown					
Abdominal pain		□Yes	□No]Unknown					
Diarrhoea .		□Yes	□No		□Unknown					
Vomiting		□Yes	□No	· □]Unknown					
Other, specify										
Other, specify 2b. LABORATORY RESU	JLTS									
2b. LABORATORY RESU		ng the hos	spital ad	dmission (up to the time of dischar	ge/death) (*record units if dif	ferent from			
2b. LABORATORY RESU (record the most abnorma those listed)	al result durir									
2b. LABORATORY RESU	al result durir	rmal valu		Not	up to the time of discharg	Most abnormal value*	ferent from Not Done			
2b. LABORATORY RESU (record the most abnorma those listed)	Most abno (and Date)	rmal valu		Not		Most abnormal value* (and Date)	Not			
2b. LABORATORY RESU (record the most abnormathose listed) Parameter	Most abno (and Date)	rmal valu		Not	Parameter	Most abnormal value* (and Date)	Not			
2b. LABORATORY RESU (record the most abnormathose listed) Parameter Markers of inflammation	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dys	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormation) those listed) Parameter Markers of inflammation Haemoglobin (g/L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dys Creatinine (µmol/L)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormationselisted) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dys Creatinine (µmol/L) Sodium (mmol/L)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormations) those listed) Parameter Markers of inflammations Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dys Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormation those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x10 ⁹ /L) Neutrophils (x10 ⁹ /L) Lymphocytes (x10 ⁹ /L) Haematocrit (%) Platelets (x10 ⁹ /L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dystem Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormation those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dys Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormathose listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR PT (seconds)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dystem Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormations those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR PT (seconds) INR	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dysters organized organized control organized organiz	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormations those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR PT (seconds) INR Fibrinogen (g/L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dystem Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L) LDH (U/L) Triglycerides	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormation those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x10 ⁹ /L) Neutrophils (x10 ⁹ /L) Lymphocytes (x10 ⁹ /L) Haematocrit (%) Platelets (x10 ⁹ /L) APTT/APTR PT (seconds) INR Fibrinogen (g/L) Procalcitonin (ng/mL)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dyster Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L) LDH (U/L) Triglycerides ALT/SGPT (U/L)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormation those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR PT (seconds) INR Fibrinogen (g/L) Procalcitonin (ng/mL) CRP (mg/L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dystem Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L) LDH (U/L) Triglycerides ALT/SGPT (U/L) Total bilirubin	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormation those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x10 ⁹ /L) Neutrophils (x10 ⁹ /L) Lymphocytes (x10 ⁹ /L) Haematocrit (%) Platelets (x10 ⁹ /L) APTT/APTR PT (seconds) INR Fibrinogen (g/L) Procalcitonin (ng/mL) CRP (mg/L) ESR (mm/hr)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dyster Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L) LDH (U/L) Triglycerides ALT/SGPT (U/L) Total bilirubin AST/SGOT (U/L)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormathose listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR PT (seconds) INR Fibrinogen (g/L) Procalcitonin (ng/mL) CRP (mg/L) ESR (mm/hr) D-dimer (mg/L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dysteres of organ (mmol/L) Protal (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L) LDH (U/L) Triglycerides ALT/SGPT (U/L) Total bilirubin AST/SGOT (U/L) Albumin (g/dL)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormation those listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR PT (seconds) INR Fibrinogen (g/L) Procalcitonin (ng/mL) CRP (mg/L) ESR (mm/hr) D-dimer (mg/L) IL-6 (pg/mL)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dyster Creatinine (µmol/L) Sodium (mmol/L) Potassium (mmol/L) Urea (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L) LDH (U/L) Triglycerides ALT/SGPT (U/L) Total bilirubin AST/SGOT (U/L) Albumin (g/dL) Lactate (mmol/L)	Most abnormal value* (and Date)	Not Done			
2b. LABORATORY RESU (record the most abnormathose listed) Parameter Markers of inflammation Haemoglobin (g/L) Total WBC count (x109/L) Neutrophils (x109/L) Lymphocytes (x109/L) Haematocrit (%) Platelets (x109/L) APTT/APTR PT (seconds) INR Fibrinogen (g/L) Procalcitonin (ng/mL) CRP (mg/L) ESR (mm/hr) D-dimer (mg/L)	Most abno (and Date) /coagulopat	rmal valu		Not done	Parameter Markers of organ dysteres of organ (mmol/L) Protal (BUN) (mmol/L) Glucose (mmol/L) Pro-BNP (pg/mL) Troponin (ng/mL) Creatine kinase (U/L) LDH (U/L) Triglycerides ALT/SGPT (U/L) Total bilirubin AST/SGOT (U/L) Albumin (g/dL)	Most abnormal value* (and Date)	Not Done			



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2c. IMAGING/PATHOGEN TESTING (include the most abnormal results from admission up to the time of discharge/death)									
Chest X-ray performed	d □Yes □	⊒No □Unknow	n If ye s	s, findings					
Chest CT performed?	□Yes □]No □Unknov	vn If yes	, were infiltrates present? □Yes □No □Unknown other findings					
Echocardiography performed Yes No Unknown If yes what was the date of the most abnormal echocardiogram D_[D_]/[M_][M_]/[2_][0_][Y_][Y_] On that echogardiogram were there: features of myocardial dysfunction? Yes No Unknown features of valvulitis? Yes No Unknown coronary abnormalities? Yes No Unknown									
ECG performed? □Yes □No □ Unknown If yes what was the date of the most abnormal ECG [_D_][_D_]/[_M_][_M_]/[_2_][_0_][_Y_][_Y_] On that ECG what were the findings?									
If yes, date [<u>D</u>][<u>D</u>	Other cardiac imaging performed? Yes No Unknown If yes, date D D M M M M M M If yes, specify name of imaging and most abnormal results								
Bacterial pathogen tes	sting								
Bacterial pathogen If positive, specify		•							
ii poolavo, opooliy <u> </u>									
SARS-CoV-2 testing									
RT-PCR	□Positive	Negative	□Not done	Site of specimen collection					
Rapid antigen test	□Positive	Negative	□Not done	Site of specimen collection					
Rapid antibody test	□Positive	Negative	□Not done						
ELISA	□Positive	Negative	□Not done	If done, titres					
Neutralization test	□Positive	Negative	□Not done	If done, titres					
Other test? Specify		Resu	ılts	_					
If no pathogen testing: Clinically diagnosed COVID-19? □Yes □No □Unknown									

预览已结束,完整报告链接和二维码如下:

 $https://www.yunbaogao.cn/report/index/report?reportId=5_24568$

