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## Form 6C: Infection (COVID-19 and MIS-C)

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Not Started

To be completed for **both pre-transplant and post-transplant** COVID-19 and MIS-C infections

ALL data on this form is specific to the COVID-19 Infection only. For example, an ICU stay is for days in ICU for COVID-19, not because of heart failure or post-transplant management.

- 1 **Was patient managed with COVID-19 as inpatient only, outpatient only, or both?**
- Inpatient only  
 Outpatient only  
 Both

Question Added: 30 APR 2020

1a **Date of Admission**

Same or different from date of infection

Missing Reason:

 Unknown

Question Added: 30 APR 2020

2 **Date of COVID-19 Infection**

Date of diagnosis or clinical presentation, whichever date is earliest.  
MM/DD/YYYY

Missing Reason:

 Unknown

Question Added: 30 APR 2020

- 3 **Mode of Diagnosis**
- COVID-19 Test Positive  
 Known Exposure to COVID-19 Positive Patient  
 Presumed COVID-19 Positive Based on Symptoms, no known exposure or test

Question Added: 30 APR 2020

3a **Mode of Testing**

PCR  
 Antibody Testing  
 Both PCR and Antibody Testing

Question Added: 28 SEP 2020

- 4 **Drug Therapy at Time of Infection**
- Yes  
 No  
 Unknown
- Indicate if there was an ongoing prophylactic drug therapy at time (date) of infection diagnosis (i.e. valganciclovir for CMV prophylaxis post-transplant). Do not include drugs that have been prescribed to treat a specific previous infection unless that previous infection is considered to be resolved and the patient is now on long-term prophylaxis. Do not include therapy for the current infection. Drug therapy for the current infection should be entered under 'intervention'.

Question Added: 30 APR 2020

4a **Specify current medications at time of Diagnosis of COVID-19 Infection.**

Acyclovir  
 Alemtuzumab (Campath)  
 ATGAM  
 Azathioprine (Imuran)  
 Basiliximab (Simulect)  
 Bortezomib (Velcade)  
 CMV Immunoglobulin, Cytogam  
 Cyclosporine  
 Cytosan (cyclophosphamide)  
 Dapsone  
 Everolimus (Certican)  
 Fluconazole  
 Ganciclovir or Valganciclovir  
 Immunoglobulin, IV Ig  
 Methotrexate  
 Mycophenylate, MMF (Cellcept, Myfortic)  
 Nystatin  
 Oseltamivir  
 Pentamidine  
 Prednisone  
 Rituximab (Rituxan)  
 Sirolimus (Rapamycin)  
 Tacrolimus (Prograf, FK506)  
 Thymoglobulin/ATG  
 Trimethoprim-sulfamethoxazole, Septra  
 Valacyclovir  
 Other, specify   
 ACEi  
 Hydroxychloroquine (Chronic or prophylactic use)  
 ARB

Question Added: 30 APR 2020

4b

Ganciclovir or Valganciclovir  IV  
 PO

Question Added: 30 APR 2020

Labs

5a	<b>WBC - Low</b> Lowest count during infection	<input type="text"/> cell / mm <sup>3</sup>	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 30 APR 2020	
5b	<b>WBC - High</b> Highest count during infection	<input type="text"/> cell / mm <sup>3</sup>	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 30 APR 2020	
5c	<b>BUN - Low</b> Blood Urea Nitrogen Lowest during infection	<input type="text"/> <input type="radio"/> Urea mmol/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 4 and 20 Question Zone: > 40 Red Flag Zone: > 120	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5d	<b>BUN - High</b> Blood Urea Nitrogen Highest during infection	<input type="text"/> <input type="radio"/> Urea mmol/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 4 and 20 Question Zone: > 40 Red Flag Zone: > 120	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5e	<b>Creatinine - Low</b> Lowest during infection	<input type="text"/> <input type="radio"/> umol/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 0.2 and 1.3 Question Zone: > 2.6 Red Flag Zone: > 10	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5f	<b>Creatinine - High</b> Highest during infection	<input type="text"/> <input type="radio"/> umol/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 0.2 and 1.3 Question Zone: > 2.6 Red Flag Zone: > 10	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5g	<b>LDH - Low</b> Lowest during infection	<input type="text"/> un / L	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020	
5h	<b>LDH - High</b> Highest during infection	<input type="text"/> un / L	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020	
5i	<b>ALT/SGPT - Low</b> Alanine transaminase (also SGPT) Lowest during infection	<input type="text"/> U/L	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020	
5j	<b>ALT/SGPT - High</b> Alanine transaminase (also SGPT) Highest during infection	<input type="text"/> U/L	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020	
5k	<b>Bilirubin Total - Low</b> Lowest during infection	<input type="text"/> <input type="radio"/> umol/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 0.3 and 1.2 Question Zone: > 2.4 Red Flag Zone: > 10	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5l	<b>Bilirubin Total - High</b> Highest during infection	<input type="text"/> <input type="radio"/> umol/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 0.3 and 1.2 Question Zone: > 2.4 Red Flag Zone: > 10	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5m	<b>CRP - Low</b> C reactive protein Lowest during infection	<input type="text"/> <input type="radio"/> mg/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 0 and 0.5 Question Zone: > 5 Red Flag Zone: > 50	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5n	<b>CRP - High</b> C reactive protein Highest during infection	<input type="text"/> <input type="radio"/> mg/L <input type="radio"/> mg/dL	<b>Range Information</b> Too Low: < 0 Normal: Between 0 and 0.5 Question Zone: > 5 Red Flag Zone: > 50	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5o	<b>Procalcitonin - Low</b> Lowest during infection	<input type="text"/> ng/ml	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020	

Question Added: 28 SEP 2020

5p	<b>Procalcitonin - High</b> Highest during infection	<input type="text"/> ng/ml	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done		
5q	<b>BNP - Low</b> B-type natriuretic peptide Lowest during infection	<input type="text"/> <input type="radio"/> pmol/L <input type="radio"/> pg/ml or ng/L	<b>Range Information</b> Too Low: < 0 Normal: Between 10 and 100 Question Zone: > 1000 Red Flag Zone: > 10000	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5r	<b>BNP - High</b> B-type natriuretic peptide Highest during infection	<input type="text"/> <input type="radio"/> pmol/L <input type="radio"/> pg/ml or ng/L	<b>Range Information</b> Too Low: < 0 Normal: Between 10 and 100 Question Zone: > 1000 Red Flag Zone: > 10000	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5s	<b>Pro BNP - Low</b> Pro NT B-type natriuretic peptide Lowest during infection	<input type="text"/> <input type="radio"/> pg/ml or ng/L <input type="radio"/> pmol/L	<b>Range Information</b> Too Low: < 0 Normal: Between 10 and 300 Question Zone: > 3000 Red Flag Zone: > 30000	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5t	<b>Pro BNP - High</b> Pro NT B-type natriuretic peptide Highest during infection	<input type="text"/> <input type="radio"/> pg/ml or ng/L <input type="radio"/> pmol/L	<b>Range Information</b> Too Low: < 0 Normal: Between 10 and 300 Question Zone: > 3000 Red Flag Zone: > 30000	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5u	<b>Troponin - Low</b> Do not enter highly sensitive Troponin Lowest during infection	<input type="text"/> ng/ml <input type="radio"/> T <input type="radio"/> I	<b>Range Information</b> Too Low: < 0.1 Normal: Between 0.1 and 0.3 Question Zone: > 0.3 Red Flag Zone: > 0.3	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5v	<b>Troponin - High</b> Do not enter highly sensitive Troponin Highest during infection	<input type="text"/> ng/ml <input type="radio"/> T <input type="radio"/> I	<b>Range Information</b> Too Low: < 0.1 Normal: Between 0.1 and 0.3 Question Zone: > 0.3 Red Flag Zone: > 0.3	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done	Question Added: 28 SEP 2020
5w	<b>Platelet Count - Low</b> Lowest count during infection	<input type="text"/> cell / microliter	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done		Question Added: 30 APR 2020
5x	<b>Platelet Count - High</b> Highest count during infection	<input type="text"/> cell / microliter	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done		Question Added: 30 APR 2020
5y	<b>Hemoglobin - Low</b> Lowest count during infection	<input type="text"/> g / dL	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done		Question Added: 30 APR 2020
5z	<b>Hemoglobin - High</b> Highest count during infection	<input type="text"/> g / dL	<b>Missing Reason:</b> <input type="radio"/> Unknown <input type="radio"/> Not Done		Question Added: 30 APR 2020

Echo

6	<b>Was at least one echo done at the time of the evaluation for COVID-19?</b>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown		Question Added: 30 APR 2020
6a	<b>Was the function on the worst echo mildly, moderately, or severely worse than pre-COVID-19?</b>	<input type="radio"/> Mildly Worse <input type="radio"/> Moderately Worse <input type="radio"/> Severely Worse <input type="radio"/> Unchanged <input type="radio"/> Unknown		Question Added: 30 APR 2020
6b	<b>If the echo was changed from baseline, did it return to baseline before discharge?</b>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown		Question Added: 30 APR 2020
7	<b>COVID-19 Infection Involvement</b>	<input type="checkbox"/> None <input type="checkbox"/> Gastrointestinal infection (ie. Gastritis, colitis, infectious diarrhea) <input type="checkbox"/> Heart (includes endocarditis) <input type="checkbox"/> Respiratory (includes Pneumonia/ Bronchiolitis/Tracheitis/ Pleuritis) <input type="checkbox"/> Fever		

**8** **Were there other infections at the same time**  Yes  
Other infections during infection with COVID-19  
 No  
 Unknown  
Select ALL additional organisms at the time of infection

**8a Bacterial Infection**

- Bordatella Pertussis
- Chlamydia
- Clostridium Difficile
- Enterobacter
- Enterococcus (including VRE)
- Escherichia Coli
- Haemophilus influenzae
- Haemophilus, NOS
- Klebsiella, NOS
- Moraxella
- Mycoplasma pneumonia
- Nocardia
- Pseudomonas
- Salmonella
- Serratia
- Staphylococcus Aureus, Methicillin/Oxacillin Resistant (MRSA)
- Staphylococcus Aureus, Methicillin/Oxacillin Sensitive (MSSA)
- Staphylococcus, Coagulase-Negative (Staph Epidermidis)
- Staphylococcus, Other
- Streptococcus Pneumoniae (Streptococcal Pneumonia)
- Streptococcus, Group A (S. pyogenes)
- Streptococcus, Viridians Group
- Streptococcus, NOS
- Streptococcus, Group B (S. agalactiae)
- Stenotrophomonas
- Mycobacterium tuberculosis (TB)
- Nontuberculous mycobacterium (NTM)
- Bacterial Organism(s) Unknown
- Other, specify

**8a Fungal Infection**

- Aspergillus
- Candida albicans
- Candida, Not Albicans/Other
- Coccidioidomycosis
- Cryptococcus
- Histoplasmosis
- Mucormycosis
- Pneumocystis (PCP/PJP)
- Fungal Organism(s) Unknown
- Other, specify

**8a Protozoan Infection**

- Cryptosporidium
- Giardia
- Toxoplasma (Toxo)
- Protozoan/parasitic Organism(s) Unknown
- Other, specify

**8a Viral Infection**

- Adenovirus
- Bk Virus
- Coronavirus (Other than SARS-CoV-2)
- Coxsackievirus (all serotypes)
- Cytomegalovirus, CMV
- Enterovirus
- Epstein Barr Virus, EBV (symptomatic)
- Hepatitis A
- Hepatitis B
- Hepatitis C
- Hepatitis D
- HIV
- Human Herpes Simplex Virus, Type 1/Type 2
- Influenzavirus A
- Influenzavirus B
- Influenzavirus H1N1
- Influenzavirus, NOS
- Metapneumovirus (HMPV)
- Norovirus (Norwalk Virus)
- Parainfluenza
- Parvovirus
- Respiratory Syncytial Virus (RSV)
- Rhinovirus
- Rhino/Enterovirus, NOS
- Rotavirus
- Varicella (Chicken Pox/Shingles)
- West Nile Virus
- Viral Organism(s) Unknown
- Other, specify

**8b** **Was the additional infection treated with antibiotics?**  Yes  
 No  
 Unknown

**9** **Location of exposure**  Home  
This is where the patient was at the time they developed the infection  
 Community  
 In Hospital  
 Out of Hospital  
 Long Term Care Facility  
 Unknown

**Interventions**

**10** **Drug Therapy to Treat Infection**  None  
 Hydroxychloroquine  
 Azithromycin  
 Anti-Viral, specify  
 Hyperimmune Globulin

**10a** **Specify anti-viral**

**10b** **Anti-viral administration method**  IV  
 PO

**11** **Is the patient on baseline immunosuppression?**  Yes  
 No

Unknown

Question Added: 30 APR 2020

**11a** Indicate which Immunosuppressive drugs were reduced because of COVID-19

- None
- Unknown
- CNI
- Antimetabolite
- PSI/mTOR inhibitor
- Steroids

Question Added: 30 APR 2020

**12** Did the patient receive inotropic support?

- Yes
- No
- Unknown

Question Added: 30 APR 2020

**13** **Other Interventions**

This is for treatments only, not diagnostic procedures.

- None
- Newly required Dialysis
- Newly required mechanical support
- Non-invasive ventilation: NC O2
- Non-invasive ventilation: HF O2
- Non-invasive ventilation: CPAP
- Non-invasive ventilation: BIPAP
- Invasive Mechanical Ventilation
- Surgical therapy, specify
- Supportive Care Only
- Unknown
- Other, specify

Question Added: 30 APR 2020

**13a** **Intervention - Surgical therapy, specify**

(Do not include invasive diagnostic procedures (i.e. biopsies) or short term device placement for therapy (i.e. central line placement, PD placement, or ECMO procedures))

- Surgery
- New Device placed for treatment of infection
- Removal of pre-existing device
- Non-invasive procedure, specify
- Unknown
- Other, specify

Question Added: 30 APR 2020

**13a.i** **Surgery, specify**

- ENT
- GI
- Dental
- Neurology (Brain, Peripheral/Spine)
- Cardiothoracic
- Nephrology/Urology
- Orthopedic
- Ophthalmology

Question Added: 30 APR 2020

**13a.i.1** **GI, specify**

- Appendectomy
- Other, specify

Question Added: 30 APR 2020

**13a.ii** **New Device placed for treatment of infection, specify**

- Chest tube
- Long term central line
- Other, specify

Question Added: 30 APR 2020

**13a.iii** **Removal of pre-existing device, specify**

- Replaced during same hospitalization
- Replaced after discharge

Question Added: 30 APR 2020

**13a.iv** **Non-invasive procedure, specify**

Question Added: 30 APR 2020

**13a.iii.1** **Replaced after discharge, specify**

- Permanent pacemaker/AICD
- Long term PD catheter
- Long term central line
- VAD (complete Form 15)
- Other, specify

Question Added: 30 APR 2020

**14** **Days in ICU**

Report the number of days in the ICU because of COVID-19, not for other medical reasons. If patient is not in the ICU, enter 0.

Missing Reason:  
 Still in hospital  
 Unknown

Question Added: 30 APR 2020

**15** **Days intubated on ventilator**

Report the number of days intubated on a ventilator because of COVID-19, not for other medical reasons. If patient is not on a ventilator, enter 0.

Missing Reason:  
 Still in hospital  
 Unknown

Question Added: 30 APR 2020

**16** **Days hospitalized**

Report the number of days hospitalized because of COVID-19, not for other medical reasons. If patient is not hospitalized, enter 0.

Missing Reason:  
 Still in hospital  
 Unknown

Question Added: 30 APR 2020

**17** **Outcome at 30 days post-date of infection**

Check only one.  
 Significant long term sequelae means any residual medical problem persisting for > 30 days after the onset of the infection (e.g.) renal failure, respiratory failure.

Death  
 Resolution  
 Significant Long Term Sequelae  
 Unresolved at 30 days  
 Unknown

Question Added: 30 APR 2020

**17a** **Date of Death**

Question Added: 30 APR 2020

**17b** **Primary Cause of Death**

COVID-19  
 Cardiovascular  
 Pulmonary  
 MSOF  
 Renal  
 Neurologic

Question Added: 30 APR 2020

**17b.i** **Did COVID-19 contribute to death?**

Yes  
 No  
 Unknown

Question Added: 30 APR 2020

**17c** **Details of Sequelae**

Choose all that apply  
 \*\*All current definitions of pediatric ARF or AKI (including KDIGO AKI which is the current recommended definition by peds nephrology) are based on measurements within the first 2 weeks.  
 \*\*All current definitions of CKD (eGFR < 60 – measured by egr = (0.413 \* height) / creatinine) are based on eGFR < 60 persisting for 3 months.

**Kidney Consequences at 30 days**

Acute Kidney Injury (Definition: serum creatinine >= 2 times baseline) that resolved by 30 days  
 Acute Kidney Injury (Definition: serum creatinine >= 2 times baseline) still present at 30 days  
 Chronic kidney insufficiency unchanged from before infection  
 Worsened chronic kidney insufficiency  
 Currently requiring dialysis

**Neurological consequences at 30 days**

Neurological complication that resolved by 30 days and no longer requiring treatment (please specify complication)  
  
 Encephalopathy with ongoing mental status changes or deficits  
 Hydrocephalus requiring treatment or VP shunt  
 Seizures requiring ongoing therapy  
 Residual deficits from stroke

**Respiratory Consequences at 30 days**

Need for invasive mechanical ventilation that resolved by 30 days  
 Need for non-invasive mechanical (CPAP, BiPAP) ventilation that resolved by 30 days  
 Ongoing need for non-invasive ventilation  
 New or ongoing need for mechanical vent or trach

**GI Consequences at 30 days**

GI symptoms that resolved by 30 days (please specify)  
  
 Ongoing TPN  
 Colostomy/ostomy

**None of these**  
 None of these

Question Added: 30 APR 2020

**Did this patient have MIS-C?**  Yes

18

- No
- Unknown

Question Added: 04 JAN 2021

18a

Date of MIS-C Infection

Missing Reason:  
 Unknown

Question Added: 04 JAN 2021

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