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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
PMGMTS

1a Date of Admission

Same or different from date of infection

Missing Reason:
 Unknown

Question Added: 30 APR 2020
INFADMITDT

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
INFDATE

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
DXMODE

3a Mode of Testing

PCR
 Antibody Testing
 Both PCR and Antibody Testing

Question Added: 28 SEP 2020
DXPOS

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
DRGTHR

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

Acyclovir ACYCIN
 Alemtuzumab (Campath) ALEMTUZ
 ATGAM ATGAM

- Azathioprine (Imuran) AZATIN
- Basiliximab (Simulect) BASILI
- Bortezomib (Velcade) BORTEZ
- CMV Immunoglobulin, Cytogam CMVIMM
- Cyclosporine CYCLIN
- Cytoxan (cyclophosphamide) CYTOXAN
- Dapsone DAPSONE
- Everolimus (Certican) EVERO
- Fluconazole FLUCON
- Ganciclovir or Valganciclovir GANCIN
- Immunoglobulin, IV Ig IMLIN
- Methotrexate METHIN
- Mycophenylate, MMF (Cellcept, Myfortic) MYCOIN
- Nystatin NYSTATIN
- Oseltamivir OSELT
- Pentamidine PENTAM
- Prednisone PREDIN
- Rituximab (Rituxan) RITIN
- Sirolimus (Rapamycin) SIROIN
- Tacrolimus (Prograf, FK506) TACRIN
- Thymoglobulin/ATG ATGIN
- Trimethaprim-sulfamethoxazole, Septra TSLFIN
- Valacyclovir VALAC
- Other, specify F6DTOT
- F6DTSP
- ACEi ACEI
- Hydroxychloroquine (Chronic or prophylactic use) HYDRPRO
- ARB ARB

Question Added: 30 APR 2020

4b

Ganciclovir or Valganciclovir IV PO

Question Added: 30 APR 2020
GANVALRT

Labs

5a

WBC - Low
Lowest count during infection cell / mm³

Question Added: 30 APR 2020

Missing Reason:

- Unknown
- Not Done

WBCLO

5b

WBC - High
Highest count during infection cell / mm³

Question Added: 30 APR 2020

Missing Reason:

- Unknown
- Not Done

WBCHI

5c

BUN - Low
Blood Urea Nitrogen Urea mmol/L mg/dL
Lowest during infection

Range Information
 Too Low: < 0
 Normal: Between 4 and 20
 Question Zone: > 40
 Red Flag Zone: > 120

Question Added: 28 SEP 2020

BUNLO_U

Missing Reason:

- Unknown
- Not Done

BUNLO

5d

BUN - High

Blood Urea Nitrogen
Highest during infection

 Urea mmol/L
 mg/dL

Range Information
 Too Low: < 0
 Normal: Between 4 and 20
 Question Zone: > 40
 Red Flag Zone: > 120

Question Added: 28
SEP 2020

BUNHI_U

Missing Reason:

- Unknown
- Not Done

BUNHI

5e

Creatinine - Low

Lowest during infection

 umol/L
 mg/dL

Range Information
 Too Low: < 0
 Normal: Between 0.2 and 1.3
 Question Zone: > 2.6
 Red Flag Zone: > 10

Question Added: 28
SEP 2020

CREATLO_U

Missing Reason:

- Unknown
- Not Done

CREATLO

5f

Creatinine - High

Highest during infection

 umol/L
 mg/dL

Range Information
 Too Low: < 0
 Normal: Between 0.2 and 1.3
 Question Zone: > 2.6
 Red Flag Zone: > 10

Question Added: 28
SEP 2020

CREATHI_U

Missing Reason:

- Unknown
- Not Done

CREATHI

5g

LDH - Low

Lowest during infection

 un / L

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

LDHLO

5h

LDH - High

Highest during infection

 un / L

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

LDHHI

5i

ALT/SGPT - Low

Alanine transaminase (also SGPT)
Lowest during infection

 U/L

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

ALTLO

5j

ALT/SGPT - High

Alanine transaminase (also SGPT)
Highest during infection

 U/L

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

ALTHI

5k **Bilirubin Total - Low** **Range Information**
 Lowest during infection umol/L Too Low: < 0
 mg/dL Normal: Between 0.3 and 1.2
 Question Zone: > 2.4
 Red Flag Zone: > 10
 BILITOTALLO_U
 Missing Reason:
 Unknown
 Not Done
 Question Added: 28 SEP 2020
 BILITOTALLO

5l **Bilirubin Total - High** **Range Information**
 Highest during infection umol/L Too Low: < 0
 mg/dL Normal: Between 0.3 and 1.2
 Question Zone: > 2.4
 Red Flag Zone: > 10
 BILITOTALHI_U
 Missing Reason:
 Unknown
 Not Done
 Question Added: 28 SEP 2020
 BILITOTALHI

5m **CRP - Low** **Range Information**
 C reactive protein mg/L Too Low: < 0
 Lowest during infection mg/dL Normal: Between 0 and 0.5
 Question Zone: > 5
 Red Flag Zone: > 50
 CRPLO_U
 Missing Reason:
 Unknown
 Not Done
 Question Added: 28 SEP 2020
 CRPLO

5n **CRP - High** **Range Information**
 C reactive protein mg/L Too Low: < 0
 Highest during infection mg/dL Normal: Between 0 and 0.5
 Question Zone: > 5
 Red Flag Zone: > 50
 CRPHI_U
 Missing Reason:
 Unknown
 Not Done
 Question Added: 28 SEP 2020
 CRPHI

5o **Procalcitonin - Low** **Range Information**
 Lowest during infection ng/ml Too Low: < 0
 Question Zone: > 1000
 Red Flag Zone: > 10000
 Missing Reason:
 Unknown
 Not Done
 Question Added: 28 SEP 2020
 PROCALLO

5p **Procalcitonin - High** **Range Information**
 Highest during infection ng/ml Too Low: < 0
 Question Zone: > 1000
 Red Flag Zone: > 10000
 Missing Reason:
 Unknown
 Not Done
 Question Added: 28 SEP 2020
 PROCALHI

5q **BNP - Low** **Range Information**
 B-type natriuretic peptide pg/ml or ng/L Too Low: < 0
 Lowest during infection pmol/L Normal: Between 10 and 100
 Question Zone: > 1000
 Red Flag Zone: > 10000
 BNBPLO_U
 Missing Reason:
 Unknown
 Not Done
 Question Added: 28 SEP 2020
 BNBPLO

Range Information
 Too Low: < 0
 Question Added: 28 SEP 2020

5r

BNP - High

B-type natriuretic peptide
Highest during infection

- pg/ml or ng/L
- pmol/L

Normal: Between 10 and 100
Question Zone: > 1000
Red Flag Zone: > 10000

BNPHI_U

Missing Reason:

- Unknown
- Not Done

BNPHI

5s

Pro BNP - Low

Pro NT B-type natriuretic peptide
Lowest during infection

- pg/ml or ng/L
- pmol/L

Range Information
Too Low: < 0
Normal: Between 10 and 300
Question Zone: > 3000
Red Flag Zone: > 30000

PBNPLO_U

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

PBNPLO

5t

Pro BNP - High

Pro NT B-type natriuretic peptide
Highest during infection

- pg/ml or ng/L
- pmol/L

Range Information
Too Low: < 0
Normal: Between 10 and 300
Question Zone: > 3000
Red Flag Zone: > 30000

PBNPHI_U

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

PBNPHI

5u

Troponin - Low

Do not enter highly sensitive Troponin
Lowest during infection

- ng/ml
- T
- I

Range Information
Too Low: < 0.1
Normal: Between 0.1 and 0.3
Question Zone: > 0.3
Red Flag Zone: > 0.3

TROPOLO_U

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

TROPOLO

5v

Troponin - High

Do not enter highly sensitive Troponin
Highest during infection

- ng/ml
- T
- I

Range Information
Too Low: < 0.1
Normal: Between 0.1 and 0.3
Question Zone: > 0.3
Red Flag Zone: > 0.3

TROPOHI_U

Question Added: 28
SEP 2020

Missing Reason:

- Unknown
- Not Done

TROPOHI

5w

Platelet Count - Low

Lowest count during infection

cell / microliter

Question Added: 30
APR 2020

Missing Reason:

- Unknown
- Not Done

PLTLO

5x

Platelet Count - High

Highest count during infection

cell / microliter

Question Added: 30
APR 2020

Missing Reason:

- Unknown
- Not Done

PLTHI

5y

Hemoglobin - Low

Lowest count during infection g / dL

Question Added: 30 APR 2020

Missing Reason:

- Unknown
- Not Done

HEMOLO

5z

Hemoglobin - High

Highest count during infection g / dL

Question Added: 30 APR 2020

Missing Reason:

- Unknown
- Not Done

HEMOHI

Echo

6

Was at least one echo done at the time of the evaluation for COVID-19?

- Yes
- No
- Unknown

Question Added: 30 APR 2020 ECHOP

6a

Was the function on the worst echo mildly, moderately, or severely worse than pre-COVID-19?

- Mildly Worse
- Moderately Worse
- Severely Worse
- Unchanged
- Unknown

Question Added: 30 APR 2020 ECHOW

6b

If the echo was changed from baseline, did it return to baseline before discharge?

- Yes
- No
- Unknown

Question Added: 30 APR 2020 ECHOR

7

COVID-19 Infection Involvement

- None ILNONE
- Gastrointestinal infection (ie. Gastritis, colitis, infectious diarrhea) ILGI
- Heart (includes endocarditis) ILHEART
- Respiratory (includes Pneumonia/ Bronchiolitis/Tracheitis/ Pleuritis) ILLUNG
- Fever ILFEVER

Question Added: 30 APR 2020

8

Were there other infections at the same time

- Yes
- No
- Unknown

Other infections during infection with COVID-19
Select ALL additional organisms at the time of infection

Question Added: 30 APR 2020 COINFECTION

8a

Bacterial Infection

- Bordatella Pertussis INF_BORI
- Chlamydia INF_CHL

8a

Fungal Infection

- Aspergillus INF_ASI
- Candida albicans INF_ALI

8a

Protozoan Infection

- Cryptosporidium INF_SPOI

8a

Viral Infection

- Adenovirus INF_ADEI
- Bk Virus INF_BK

- Clostridium Difficile INF_CDI
- Enterobacter INF_ENTI
- Enterococcus (including VRE) INF_ENTI
- Escherichia Coli INF_ECO
- Haemophilus influenzae INF_FLI
- Haemophilus, NOS INF_NOI
- Klebsiella, NOS INF_KLEI
- Moraxella INF_MOR
- Mycoplasma pneumoniae INF_MYC
- Nocardia INF_NOC
- Pseudomonas INF_PSEI
- Salmonella INF_SALI
- Serratia INF_SERI
- Staphylococcus Aureus, Methicillin/Oxacillin Resistant (MRSA) INF_MRS
- Staphylococcus Aureus, Methicillin/Oxacillin Sensitive (MSSA) INF_MSS
- Staphylococcus, Coagulase-Negative (Staph Epidermidis) INF_CNEI
- Staphylococcus, Other STAPH_C
- Streptococcus Pneumoniae (Streptococcal Pneumonia) STREPNEI
- Streptococcus, Group A (S. pyogenes) STREP_I
- Streptococcus, Viridians Group STREPVIR
- Streptococcus, NOS STREP_NOI
- Streptococcus, Group B (S. agalactiae) STREP_I
- Stenotrophomonas INF_STEI
- Mycobacterium tuberculosis (TB) INF_TI
- Nontuberculous mycobacterium (NTM) INF_NTI
- Bacterial Organism(s) Unknown BACT_UNI
- Other, specify BACT_OTI

BACT_SI

Question Added: 30 APR 2020

- Candida, Not Albicans/Other INF_CANI
- Coccidioidomycosis INF_COCI
- Cryptococcus INF_CRYI
- Histoplasmosis HISTPLA
- Mucormycosis INF_MUCI
- Pneumocystis (PCP/PJP) INF_PCI
- Fungal Organism(s) Unknown FUNG_UNI
- Other, specify FUNG_OTI

FUNG_SI

Question Added: 30 APR 2020

- Giardia INF_GIAI
- Toxoplasma (Toxo) INF_TOXI
- Protozoan/parasitic Organism(s) Unknown PROT_UNI
- Other, specify PROT_OTI

PROT_SI

Question Added: 30 APR 2020

- Coronavirus (Other than SARS-CoV-2) INF_CORI
- Coxsackievirus (all serotypes) INF_COI
- Cytomegalovirus, CMV INF_CMI
- Enterovirus INF_ENTI
- Epstein Barr Virus, EBV (symptomatic) INF_EBI
- Hepatitis A INF_HEPI
- Hepatitis B INF_HEPI
- Hepatitis C INF_HEPI
- Hepatitis D INF_HEPI
- HIV INF_HI
- Human Herpes Simplex Virus, Type 1/Type 2 INF_HHSI
- Influenzavirus A INF_FLUI
- Influenzavirus B INF_FLUI
- Influenzavirus H1N1 INF_H1N
- Influenzavirus, NOS FLU_NOI
- Metapneumovirus (HMPV) INF_HMPI
- Norovirus (Norwalk Virus) INF_NORI
- Parainfluenza PARAFLI
- Parvovirus INF_PARI
- Respiratory Syncytial Virus (RSV) INF_RSI
- Rhinovirus INF_COLI
- Rhino/Enterovirus, NOS INF_REI
- Rotavirus INF_ROT
- Varicella (Chicken Pox/Shingles) INF_POI
- West Nile Virus INF_WNI
- Viral Organism(s) Unknown VIRAL_UNI
- Other, specify VIRAL_OTI

VIRAL_SI

Question Added: 30 APR 2020

8b

Was the additional infection treated with antibiotics?

- Yes
- No
- Unknown

Question Added: 30 APR 2020
ANTIB

9

Location of exposure

This is where the patient was at the time they developed the infection

- Home
- Community
- In Hospital
- Out of Hospital
- Long Term Care Facility
- Unknown

Question Added: 30 APR 2020
PATLOC

Interventions

10

Drug Therapy to Treat Infection

- | | |
|--|-----------|
| <input type="checkbox"/> None | C19DRGTHR |
| <input type="checkbox"/> Hydroxychloroquine | DRGHYDRO |
| <input type="checkbox"/> Azithromycin | DRGAZITH |
| <input type="checkbox"/> Anti-Viral, specify | DRGANTI |
| <input type="checkbox"/> Hyperimmune Globulin | DRGHYPER |
| <input type="checkbox"/> Monoclonal Antibody Infusions | DRGMAB |
| <input type="checkbox"/> Remdesivir | DRGRDV |

Question Added: 30 APR 2020

10a

Specify anti-viral

Question Added: 30 APR 2020
DRGANTISPC

10b

Anti-viral administration method

- IV
 PO

Question Added: 30 APR 2020
DRGANTIMT

11

Is the patient on baseline immunosuppression?

- Yes
 No
 Unknown

Question Added: 30 APR 2020
BSLIMMUNO

11a

Indicate which Immunosuppressive drugs were reduced because of COVID-19

- | | |
|---|-----------|
| <input type="checkbox"/> None | IMREDNONE |
| <input type="checkbox"/> Unknown | IMREDUNK |
| <input type="checkbox"/> CNI | IMREDCNI |
| <input type="checkbox"/> Antimetabolite | IMREDANTI |
| <input type="checkbox"/> PSI/mTOR inhibitor | IMREDPSI |
| <input type="checkbox"/> Steroids | IMREDSTE |

Question Added: 30 APR 2020

12

Did the patient receive inotropic support?

- Yes
 No
 Unknown

Question Added: 30 APR 2020
INOSUPPORT

13

Other Interventions

This is for treatments only, not diagnostic procedures.

- | | |
|--|-----------|
| <input type="checkbox"/> None | C19INTERV |
| <input type="checkbox"/> Newly required Dialysis | INTNDIAL |
| <input type="checkbox"/> Newly required mechanical support | INTNMEC |
| <input type="checkbox"/> Non-invasive ventilation: NC O2 | NINCO2 |
| <input type="checkbox"/> Non-invasive ventilation: HF O2 | NIHFO2 |
| <input type="checkbox"/> Non-invasive ventilation: CPAP | NICPAP |
| <input type="checkbox"/> Non-invasive ventilation: BIPAP | NIBIPAP |
| <input type="checkbox"/> Invasive Mechanical Ventilation | THRVENT |
| <input type="checkbox"/> Surgical therapy, specify | SURGINT |
| <input type="checkbox"/> Supportive Care Only | INFSUP |
| <input type="checkbox"/> Unknown | UNKTHR |
| <input type="checkbox"/> Other, specify | OTHRINV |

OTRINVSP

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 INTSRG
 - New Device placed for treatment of infection INTSDP
 - Removal of pre-existing device INTPED
 - Non-invasive procedure, specify INTNIP
 - Unknown INTUNK
 - Other, specify INTOTH
-
- INT_OTHSP

Question Added: 30 APR 2020

13a.i

Surgery, specify

- ENT INTSENT
- GI INTSGI
- Dental INTSDENT
- Neurology (Brain, Peripheral/Spine) INTSNEURO
- Cardiothoracic INTSCARDIO
- Nephrology/Urology INTSNEPH
- Orthopedic INTSORTHO
- Ophthalmology INTSOPH

Question Added: 30 APR 2020

13a.i.1

GI, specify

- Appendectomy INTSGIAP
 - Other, specify INTSGIAPO
-
- INTSGIAPOSP

Question Added: 30 APR 2020

13a.ii

New Device placed for treatment of infection, specify

- Chest tube INTDPCHT
 - Long term central line INTDPLTL
 - Other, specify INTDPO
-
- INTDPOSP

Question Added: 30 APR 2020

13a.iii

Removal of pre-existing device, specify

- Replaced during same hospitalization INTPEDRS
- Replaced after discharge INTPEDRA

Question Added: 30 APR 2020

13a.iv

Non-invasive procedure, specify

Question Added: 30 APR 2020
INTNIPSP

13a.iii.1

Replaced after discharge, specify

- Permanent pacemaker/AICD INTPEDRAPP
 - Long term PD catheter INTPEDRAPD
 - Long term central line INTPEDRACL
 - VAD (complete Form 15) INTPEDRAVAD
 - Other, specify INTPEDRAO
-
- INTPEDRAOSP

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 DAYSINTU

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 DAYSHOSP

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 OUTCOME

17a

Date of Death

Question Added: 30 APR 2020 DTHDT

17b

Primary Cause of Death

- COVID-19
Cardiovascular
Pulmonary
MSOF
Renal
Neurologic

Question Added: 30 APR 2020 DTHCAUSE

17b.i

Did COVID-19 contribute to death?

- Yes
No
Unknown

Question Added: 30 APR 2020 INFCONTR

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 egfr = (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

Question Added: 30 APR 2020

changes or deficits SLTS_ENC

Hydrocephalus requiring treatment or VP shunt SLTS_HYD

Seizures requiring ongoing therapy SLTS_SEIZ

Residual deficits from stroke SLTS_STR

Respiratory Consequences at 30 days

Need for invasive mechanical ventilation that resolved by 30 days SLTS_MECH

Need for non-invasive mechanical (CPAP, BiPAP) ventilation that resolved by 30 days SLTS_NOMECH

Ongoing need for non-invasive ventilation SLTS_NIV

New or ongoing need for mechanical vent or trach SLTS_MV

GI Consequences at 30 days

GI symptoms that resolved by 30 days (please specify) SLTS_GIRES

SLTS_GIRESP

Ongoing TPN SLTS_TPN

Colostomy/ostomy SLTS_COL

None of these

None of these DTSQNONE

18

Did this patient have MIS-C?

- Yes
- No
- Unknown

Question Added: 04 JAN 2021
MISCINF

18a

Date of MIS-C Infection

Missing Reason:
 Unknown

Question Added: 04 JAN 2021
MISCDATE

