

**Instructions for users:** This registry has 3 components: The diagnosis and presentation form, the 30 day follow up form, and the 60 day follow up form. Day 0 is defined as the onset of SARS-CoV-2/COVID-19 symptoms, or positive test, whichever is earlier. Any field that is not known should be left blank or marked as UNKNOWN if required. No identifying information for the patient is requested, and none should be provided. At the completion of the online form, respondents will see a unique code for each form that respondent should retain, in the event that they wish to return to add or change any information. The data entered for each case will be available to download (PDF) at the completion of the form and emailed to the email address provided. All initial case reports will receive the 30 Day Follow-up form by email. Cases which have not recovered at 30 days will receive the 60 Day Follow-up form by email. For questions about this project, contact COVID19ChildhoodCancer@STJUDE.ORG.

**Center (Institution) Reporting Case**

Name and email address of reporter (required): .....

Institution name: ..... City: ..... Country: .....

**Patient Information (Initial Presentation)**

- 1. New **laboratory-confirmed** case:  Yes  No      Previously recovered and experiencing **reinfection**?  Yes  No
  
- 2. Sex:  M  F  Other      Is the patient 2 years of age or older?  Yes      If yes, age in years: \_\_\_\_\_  
 No      If no, age in months: \_\_\_\_\_ (use 0-23 months)
  
- 3. **Which of the following samples were obtained and returned a SARS-CoV-2/COVID-19 positive result? (select all that were positive)**
  - Nasal swab                       Nasopharyngeal swab                       Oropharyngeal swab
  - Tracheal aspirate                       Bronchioalveolar lavage (BAL)                       Blind BAL
  - Stool/anal swab                       Blood serology                       Saliva
  - Other (specify): .....
  
- 4. **What is the underlying malignancy of this patient?**
  - Acute lymphoblastic leukemia                       Hodgkin lymphoma                       Ewing sarcoma                       Retinoblastoma
  - Acute myeloid leukemia                       Burkitt lymphoma                       Hepatoblastoma                       Rhabdomyosarcoma
  - Acute lymphoblastic lymphoma                       Neuroblastoma                       Wilms tumor
  - Central nervous system tumor (specify\*)                       Other non-Hodgkin lymphoma (specify\*)                       Osteosarcoma                       Non-CNS Germ cell tumors
  - Other malignancy (specify\*)

\*Specify malignancy details: .....
  
- 5. **What type of treatment (if any) is the patient receiving?**
  - Cancer-directed therapy                       Palliative therapy (including oral chemotherapy)                       Follow-up (treatment completed) (jump to 5a)  
*(jump to 6)*
  - Disease monitoring ("watch and wait"; no active treatment) (jump to 6)                       Unknown (jump to 6)

**If receiving cancer-directed OR palliative therapy, select all that apply:**

**If chemotherapy, when was the last treatment?**

  - Induction     Consolidation     Reinduction
  - Interim maintenance     Maintenance or continuation
  - Relapse/Refractory therapy     Immunotherapy/cell therapy     Unknown

**If acute lymphoblastic leukemia or lymphoma, select the phase of treatment that applies:**

  - Initial therapy regimen     Relapse/refractory therapy     Unknown

**If surgery, when was the last surgery?**

  - Within the last 30 days     More than 30 days ago

**If radiation therapy, when was the last treatment?**

  - Within the last 30 days     More than 30 days ago

**5a. If on follow-up, how long since the last chemotherapy?**

  - < 3 months     3 to < 12 months     1 to 5 years     > 5 years
  
- 6. **Has the patient received a stem cell transplant, or receiving preparative therapy for stem cell transplant?**
  - Yes, already received stem cell transplant
  - Yes, receiving preparative therapy (jump to 7)
  - No (jump to 7)
  - Unknown (jump to 7)

**If already received transplant, what type?**

- Autologous stem cells    Matched related stem cells  
 Matched unrelated stem cells    Haploidentical stem cells    Cord blood  
 Unknown

**How many days post-transplant is the patient at the time of SARS-CoV-2/COVID-19 presentation?**

- <30 days    31-99 days    100-300 days    > 300 days    Unknown

**7. At time of SARS-CoV-2/COVID-19 presentation, what were the counts of the following? (leave blank if unknown)**

Absolute Neutrophil Count: ..... cells/mm<sup>3</sup>   Absolute Lymphocyte Count: ..... cells/mm<sup>3</sup>

**Risk Factors**

**8. Has the patient ever had radiation therapy?**    Yes    No (jump to 9)    Unknown (jump to 9)

**If yes, what type(s) of radiation therapy did the patient receive?**

- Total Body Irradiation    Lung(s)    Mediastinum  
 Head/Neck    Craniospinal irradiation    Other

**Select all that apply**

**When did the radiation therapy occur?**

- 0-12 weeks ago    13-36 weeks ago    >36 weeks ago

**9. Besides malignancy, does the patient have other comorbidities? Select all that are known**

- Exposure to pulmonary toxins (specify\*)    History of high-dose steroids within the 14 days prior to day 0    GVHD  
 Preexisting cardiac dysfunction/abnormality    Preexisting pulmonary disease    Trisomy 21    Obesity    Other (specify)\*\*  
 None    Unknown

**\*Specify pulmonary toxin exposure:** .....

**\*\*If other comorbidities, specify:** .....

**SARS-CoV-2/COVID-19 Factors**

**10. Was the patient symptomatic when tested for SARS-CoV-2/COVID-19?**    Yes    No (jump to 12)    Unknown (jump to 12)

**If symptomatic, what symptoms were present? Select all that apply**

- |  |  |  |  |  |                                   |
|--|--|--|--|--|-----------------------------------|
| <input type="checkbox"/> Fever >100.4F/>38 C   | <input type="checkbox"/> Cough               | <input type="checkbox"/> Sore throat                       | <input type="checkbox"/> Headache                  | <input type="checkbox"/> Nausea              | <input type="checkbox"/> Vomiting |
| <input type="checkbox"/> Body aches/myalgia    | <input type="checkbox"/> Shortness of breath | <input type="checkbox"/> Tachypnea                         | <input type="checkbox"/> Diarrhea                  | <input type="checkbox"/> Lethargy            | <input type="checkbox"/> Chills   |
| <input type="checkbox"/> Rhinorrhea            | <input type="checkbox"/> Stuffy nose         | <input type="checkbox"/> Loss of sense of smell            | <input type="checkbox"/> Loss of sense of taste    | <input type="checkbox"/> Skin manifestation  |                                   |
| <input type="checkbox"/> Chest pain            | <input type="checkbox"/> Conjunctivitis      | <input type="checkbox"/> Mucositis/Mucous membrane changes | <input type="checkbox"/> Swollen hands and/or feet | <input type="checkbox"/> Swollen lymph nodes |                                   |
| <input type="checkbox"/> Altered mental status | <input type="checkbox"/> Seizures            | <input type="checkbox"/> Other symptoms (specify): .....   |  |  |                                   |

**11. How many days were symptoms present when tested for SARS-CoV-2/COVID-19?** ..... days   *leave blank if unknown*

**12. Is this a suspected case of Multisystem Inflammatory Syndrome in Children?**    Yes    No (jump to 13)

**If yes, does the child meet criteria for complete or incomplete Kawasaki disease?**    Yes    No    Unknown

**If yes, did the patient have evidence of involvement of >=2 organ systems?**    Yes    No    Unknown

**If yes, which organ systems were involved?**    Cardiac    Renal    Respiratory    Hematologic    Gastrointestinal  
 Dermatologic    Neurological

**If yes, did the patient present with signs or symptoms of shock?**    Yes    No    Unknown

**If yes, have alternative causes for the patient's symptoms/clinical presentation been eliminated as etiologies?**    Yes    No    Unknown

**If yes, does the patient have laboratory evidence of inflammation?**    Yes    No    Unknown

**If so, which evidence?**    Elevated CRP    Elevated ESR    Elevated fibrinogen    Elevated D Dimer    Elevated ferritin  
 Elevated LDH    Elevated IL-6    Elevated neutrophils    Low lymphocytes    Low albumin    Other

**If other (please specify):** .....

**If yes, was there evidence of impaired myocardial function?**    Yes    No    Unknown

**If so, what evidence?**    Myocardial dysfunction    Pericarditis    Valvulitis    Coronary abnormalities    Elevated troponin  
 Elevated BNP    Other   **If other (please specify):** .....

13. Did the patient have radiographic imaging (chest radiograph, computer tomography) of the chest?  Yes  No (jump to 14)  
 Unknown (jump to 14)

**What were the findings?**  Normal (jump to 14)  Abnormal but expected (due to underlying cancer) (jump to 14)  
 Unknown (jump to 14)  Abnormal (attributed to COVID-19)

**Specify abnormal findings attributed to COVID-19:** .....

14. Were there any co-pathogens identified while testing for COVID-19?  Yes  No (jump to 15)  Unknown (jump to 15)

**If yes, select the source (select all that apply):**  Blood  Respiratory  Other Source (specify source): .....

**If blood sample, specify bloodborne pathogen(s):** .....

**If respiratory sample, specify pathogen(s):** .....

**If other source, specify other source of co-pathogens(s):** .....

**If other sample, specify pathogen(s):** .....

15. **What was the status of the patient's clinical respiratory infection at presentation? Select the highest applicable severity of infection**

*In this instance, we are defining a lower respiratory tract infection (LRTI) as: A positive test for COVID-19 in upper respiratory tract samples (e.g. nasal wash) in conjunction with a physician diagnosis of pneumonia and/or bronchiolitis, or a positive test for COVID-19 in lower respiratory tract samples (e.g. tracheal aspirate, bronchoalveolar lavage)*

- Patient had no respiratory symptoms  Upper respiratory tract infection  
 Lower respiratory tract infection (e.g. pneumonia/bronchiolitis)  Unknown

16. Did the patient require admission at the time of initial presentation?

- Yes, new admission  No admission required  
 Patient was already admitted at time of SARS-CoV-2/COVID-19 diagnosis  Unknown

**Follow up at 30 days post infection is requested. If this case is already more than 30 days old, the follow up form will be sent immediately. Would you like access to the 30-day follow up form?**

17.  Yes  No

**If patient has already died, you should select Yes, and complete the 30 days follow up form now to record patient death.**

**END OF INITIAL REPORT FORM (FORM 1 OF 3)**

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**Follow-Up Form (30 days after symptoms onset)**

- 1. Was the patient hospitalized during the course of the SARS-CoV-2/COVID-19 illness?**
- Yes, at the time of presentation
  - Yes, after convalescence at home and deterioration
  - Yes, patient was already hospitalized for another reason (e.g. management of primary disease)
  - No, managed at home (*jump to 2*)
  - Unknown (*jump to 2*)

If yes, is the patient still hospitalized?

- Yes  No

How many days was the patient hospitalized? (Including today, if still hospitalized) .....days

- 2. Based on the SARS-CoV-2/COVID-19 diagnosis, did the patient receive any SARS-CoV-2/COVID-19 specific therapy?**
- Yes  No (*jump to 3*)  Unknown (*jump to 3*)

**Specify SARS-CoV-2/COVID-19 therapy (select all that apply):**

- |   |  |   |                                       |
|---|--|---|---------------------------------------|
| <input type="checkbox"/> Hydroxychloroquine | <input type="checkbox"/> Nitazoxanide        | <input type="checkbox"/> Lopinavir/ritonavir                | <input type="checkbox"/> Remdesivir   |
| <input type="checkbox"/> Interferon         | <input type="checkbox"/> Ribavirin           | <input type="checkbox"/> Intravenous Immunoglobulins (IVIG) | <input type="checkbox"/> Azithromycin |
| <input type="checkbox"/> Steroids           | <input type="checkbox"/> Convalescent plasma | <input type="checkbox"/> Ivermectin                         | <input type="checkbox"/> Tocilizumab  |
| <input type="checkbox"/> Oseltamivir        | <input type="checkbox"/> Favipiravir         | <input type="checkbox"/> Anakinra                           | <input type="checkbox"/> Ruxolitinib  |
| <input type="checkbox"/> Other              | <input type="checkbox"/> Unknown             |   |                                       |

Other therapy (specify): .....

- 3. Was the patient admitted to a higher level of care due to his/her COVID-19 infection?**
- Yes  No (*jump to 4*)  Unknown (*jump to 5*)

Identify the highest level of care that the patient received

- Intensive Care Unit (ICU)
- Intermediate Care Unit (IMCU)/High Dependency Unit (HDU)
- Emergency Room
- Unknown

Is the patient still receiving higher care?

- Yes  No

How many days did the patient spend in the highest level of care? (Approximate number of days, including today, if still in higher care) .....days

- 4. What was the reason the patient did not receive a higher level of care?**
- Patient status did not require higher level of care
  - No space available in higher care
  - Other (describe) .....

- 5. What was the most severe status of the patient's clinical respiratory infection during the course of the SARS-CoV-2/COVID-19 illness? Select the highest applicable severity of infection**  
*In this instance, we are defining a lower respiratory tract infection (LRTI) as: A positive test for COVID-19 in upper respiratory tract samples (e.g. nasal wash) in conjunction with a physician diagnosis of pneumonia and/or bronchiolitis, or a positive test for COVID-19 in lower respiratory tract samples (e.g. tracheal aspirate, bronchoalveolar lavage)*

- |   |  |
|---|--|
| <input type="checkbox"/> Patient had no respiratory symptoms                              | <input type="checkbox"/> Upper respiratory tract infection |
| <input type="checkbox"/> Lower respiratory tract infection (e.g. pneumonia/bronchiolitis) | <input type="checkbox"/> Unknown                           |

- 6. What was the highest level of respiratory support required? (select one)**
- Room air (*jump to 7*)
  - Regular nasal cannula/face mask
  - High-flow nasal cannula
  - CPAP/BiPap
  - Intubation
  - Unknown (*jump to 7*)

**Global COVID-19 in Pediatric Oncology**  
**For laboratory-confirmed SARS-CoV-2/COVID-19**

Hospital Record No: ..... Case Form No: .....  
For hospital record-keeping only. Do not report to online registry.

How many days total of oxygen support did the patient require? (Approximate number of days, including today if patient is still on oxygen support) .....days

How many days total of intubation did the patient require? (Approximate number of days, including today if patient is still intubated) .....days

7. Did the patient experience organ dysfunction / organ impairment as a consequence of SARS-CoV-2 /COVID-19? Select all that apply:
- None
  - Cardiac
  - Renal
  - Neurologic
  - Multiorgan
  - Unknown

8. At follow-up (30 days after symptom onset) what is the patient's status?
- SARS-CoV-2 / COVID-19 infection cleared (lab confirmed, clinically well)
  - SARS-CoV-2 / COVID-19 infection clinically resolved (not lab confirmed)
  - Tests for SARS-CoV-2 / COVID-19 continue positive but asymptomatic
  - Tests for SARS-CoV-2 / COVID-19 continue positive and patient is sick from SARS-CoV-2 / COVID-19 and complications
  - Expired, due to SARS-CoV-2 / COVID-19 infection or its complications
  - Expired, due to non-SARS-CoV-2 / COVID-19 cause
  - Unknown

If expired, how many days between date of positive SARS-CoV-2 /COVID 19 sample and date of patient death?  
.....days

9. During this reporting interval (0-30 days), was oncology treatment plan modified due to SARS-CoV-2/COVID-19? (select all that apply)
- Yes, chemotherapy dose(s) reduced
  - Yes, chemotherapy dose(s) withheld
  - Yes, radiation therapy was delayed
  - Yes, surgery was delayed
  - No, oncology treatment was delivered as planned
  - Unknown

10. If this case is not resolved/expired, it qualifies for a 60-day follow-up form. If this case is already more than 60 days old, the follow-up form will be sent immediately. Would you like access to complete the 60-day follow-up form?  Yes  No

**END OF 30-DAY FOLLOW-UP FORM (FORM 2 OF 3)**

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**Follow-Up Form (60 days after symptoms onset)**

- 1. **At this time what is the patient's SARS-CoV-2 /COVID-19 infection status?**
  - SARS-CoV-2 / COVID-19 infection cleared (lab confirmed, clinically well)
  - SARS-CoV-2 / COVID-19 infection clinically resolved (not lab confirmed)
  - Tests for SARS-CoV-2 / COVID-19 continue positive but asymptomatic
  - Tests for SARS-CoV-2 / COVID-19 continue positive and patient is sick from SARS-CoV-2 / COVID-19 and complications
  - Expired, due to SARS-CoV-2 / COVID-19 infection or its complications
  - Expired, due to non-SARS-CoV-2 / COVID-19 cause
  - Unknown
  
- 2. **During this reporting interval (30-60 days), was oncology treatment plan modified due to SARS-CoV-2/COVID-19? (select all that apply)**
  - Yes, chemotherapy dose(s) reduced;
  - Yes, chemotherapy dose(s) withheld;
  - Yes, radiation therapy was delayed
  - Yes, surgery was delayed
  - No, oncology treatment was delivered as planned;
  - Not applicable (patient not receiving cancer-directed treatment)
  - Unknown

**END OF 60-DAY FOLLOW-UP FORM (FORM 3 OF 3)**