Confirmed or suspected COVID-19 pediatric patient. Establish/confirm date of symptom onset

Risk stratify patient
High risk: Monitor Q daily x 14 days
Average risk: Monitor and reassess Q2 days x 14 days
Caregivers should have information on self-managing symptoms, with action plan for deterioration

High risk: Defined as any of the following:
- Age < 1 year
- Underlying conditions including:
  - Immunocompromise
  - Comorbidities including heart disease, lung disease, neurological disease, diabetes mellitus

Clinical assessment
Determine health status today. Consider safety net flags during assessment. Reinforce isolation requirements.

Moderate or low clinical concern
Does anyone else in household have COVID-19 symptoms?
Yes
If caregiver is ill and alternative caregiver not present, this is a high risk social situation: Requires evaluation, close follow-up and supports

Follow up in 24 hrs to reassess
For specific concerns related to pediatric COVID-19 management, consider advice from on-call specialist (by zone):
- **Calgary** - Alberta Children's Hospital (403-955-7211, ask for Pediatric ID)
- **Central** - Red Deer Regional Hospital Centre (403-343-4422)
- **Edmonton** – Stollery Children's Hospital (780-407-8822)
- **North** - use ConnectMD
- **South (Chinook)** – 1. Chinook Regional Hospital (403-388-6111)
  2. Alberta Children's Hospital (403-955-7211, ask for Pediatrics ID)

When patient is stable

Rapid deterioration is most common during the second week after symptom onset

Screen for red flags
Red flags present
Patient requires in-person assessment
EMERGENT patient:
- Activate EMS by calling RAAPID/911
URGENT patient:
- Call RAAPID

No flags present
More info

High clinical concern

Isolation & Quarantine Info

More info

More info

Updated: Aug 26, 2021 ______ Page 1 of 9
Expanded Details

This pathway is intended to be followed for pediatric patients who are confirmed or suspected COVID-19 positive.

Core COVID-19 symptoms

- Cough
- Fever
- Shortness of breath
- Loss of sense of taste or smell

Other COVID-19 symptoms

- Sore throat
- Runny or stuffy nose
- Painful swallowing
- Chills
- Headache
- Muscle or joint aches
- Feeling unwell or fatigue
- Nausea, vomiting, diarrhea or unexplained loss of appetite
- Conjunctivitis (commonly known as pink eye)

Source: Symptoms and testing | Alberta.ca

Clinical assessment (apply as appropriate based on patient’s age)

- Central Nervous System
  - Is the child their normal self in between the fever episodes?
  - Does the child seem lethargic?
- Respiratory
  - Is the child breathing faster than usual?
  - Are the muscles over the child’s ribs or neck pulling in when they breathe?
  - Is the child’s nose flaring when breathing?
  - Is the child grunting?
  - Is the child blue around or inside the mouth?
- Dehydration
  - Does the child have any vomiting or diarrhea?
  - When the child cries, do they make tears?
  - Has there been a change in the number of wet diapers or the number of times the child urinates?
  - Is the child able to tolerate fluid intake well?
- General
  - Does the child have a new rash?
  - Are the child’s eyes red even between fever episodes?
  - Are the child’s lips or tongue more red than usual?

Safety Net Flags

- Socially isolated
- Lack of caregiver support (e.g. caregiver also has suspected or confirmed COVID-19)
- Inability to maintain hydration (e.g. vomiting, diarrhea, poor fluid intake, cognitive impairment)
- Food/financial insecurity
- Challenges with health literacy
- Concerns with ability to manage pediatric patient
Red flags

- Respiratory distress: tachypnea, cyanosis, indrawing, accessory muscle use, grunting
- New onset of acute GI symptoms: abdominal pain, vomiting, diarrhea
- Reduced urine output or signs of dehydration
- Rash, non-purulent conjunctivitis, or muco-cutaneous inflammation
- Fever with temperature > 38 C for three consecutive days or more
- Signs of shock: lethargy, non-responsiveness, altered mental status

Emergent patient

- Respiratory: cyanosis, indrawing with accessory muscle use, grunting
- Signs of shock: lethargy, non-responsiveness, altered mental status

Urgent patient

- Respiratory: tachypnea
- New onset of acute GI symptoms: abdominal pain, vomiting, diarrhea
- Reduced urine output or signs of dehydration
- Rash, non-purulent conjunctivitis, or muco-cutaneous inflammation
- Fever with temperature > 38 C for three consecutive days or more

Multisystem Inflammatory Syndrome in Children (MIS-C):

Children and adolescents can develop a severe inflammatory syndrome thought to follow exposure to COVID-19 which has features similar to Kawasaki Disease and/or Toxic Shock Syndrome (TSS). Vigilance for this uncommon but serious disease is critically important.

Resources:

- Multisystem Inflammatory Syndrome in Children (MIS-C) Associated with COVID (acfp.ca)
- Public health disease management guidelines : Multisystem Inflammatory Syndrome in Children and Adolescents (MIS-C) - Open Government (alberta.ca)

<table>
<thead>
<tr>
<th>Level of Management</th>
<th>Clinical Presentation</th>
<th>Available Support and Resources</th>
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</table>
| EMERGENT management: | Clinical Presentation:  
  - Respiratory: cyanosis, indrawing with accessory muscle use, grunting  
  - Signs of shock: lethargy, non-responsiveness, altered mental status | Call 9-1-1 |
| URGENT <1-hours assessment | Clinical Presentation:  
  - Respiratory: tachypnea  
  - New onset of acute GI symptoms: abdominal pain, vomiting, diarrhea  
  - Reduced urine output or signs of dehydration  
  - Rash, non-purulent conjunctivitis, or muco-cutaneous inflammation  
  - Fever with temperature > 38 C for three consecutive days or more | Call RAAPID  
  RAAPID North (for patients north of Red Deer):  
  1-800-202-9911 or 780-735-0811  
  RAAPID South (for patients south of Red Deer):  
  1-800-661-1700 or 403-944-4486  
  RAAPID website: [RAAPID | Alberta Health Services](http://www.rapidalberta.ca) |

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<td><strong>ON-CALL advice</strong></td>
<td>• For specific concerns related to COVID-19 management, consider advice from on-call specialist</td>
<td><strong>On-Call Specialist</strong>&lt;br&gt;Calgary Zone&lt;br&gt;Alberta Children’s Hospital - ask for Pediatric ID 403-955-7211&lt;br&gt;Central Zone&lt;br&gt;Red Deer Regional Hospital Centre 403-343-4422&lt;br&gt;Edmonton Zone&lt;br&gt;Stollery Children’s Hospital 780-407-8822&lt;br&gt;South Zone <em>(Chinook PCN)</em>&lt;br&gt;1. Chinook Regional Hospital 403-388-6111&lt;br&gt;2. Alberta Children’s Hospital - ask for Pediatric ID 403-955-7211</td>
</tr>
<tr>
<td><strong>NON-URGENT daytime advice:</strong></td>
<td>• For concerns about COVID-19 management or questions about the status of a child</td>
<td><strong>Contact Connect MD</strong> <em>(North, Edmonton &amp; Central Zones)</em>&lt;br&gt;Visit <a href="#">ConnectMD</a> or call/text: 1-844-633-2263&lt;br&gt;• Hours: Monday to Thursday, 9 a.m. to 6 p.m. and Fridays, 9 a.m. to 4 p.m. (except statutory holidays)&lt;br&gt;*Summer hours: Monday 10 a.m - 4 p.m; Friday 9 a.m - 2p.m; other days same as above&lt;br&gt;• Providers can expect to receive a call-back <strong>within two to three hours</strong>&lt;br&gt;• Adult and pediatric tele-advice lines</td>
</tr>
<tr>
<td><strong>NON-URGENT advice:</strong></td>
<td>• You have non-urgent pediatric COVID-related questions and require electronic advice</td>
<td><strong>Alberta Netcare eReferral Advice</strong>&lt;br&gt;• Use the eReferral Advice Request option for non-urgent questions requiring <strong>advice within 2-5 days</strong>.&lt;br&gt;• Go to <a href="http://www.albertanetcare.ca/eReferral.htm">www.albertanetcare.ca/eReferral.htm</a> for instructions on how to submit an advice request.</td>
</tr>
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</table>

Last updated: Aug 26, 2021
High risk social situation
In a situation where the only available caregiver of a pediatric patient may be unable to provide enough support because they also have COVID-19 or other barriers or struggles, consider the following options:

• Seeking assistance from a PCN/other social worker to help address safety net flags
• Directing the household to 211 Alberta (www.ab.211.ca) for links and live online chat; call 2-1-1, text 2-1-1)
• Referring the household to Children’s Services: https://www.alberta.ca/childrens-services-office-locations.aspx

Isolation and Quarantine Information

Isolation: Albertans are legally required to isolate for 10 days if they test positive or have any core symptoms that are not related to a pre-existing illness or health condition.

Quarantine: As of July 29, close contacts of positive cases are no longer required to quarantine for 14 days (but still recommended).

Visit Isolation and quarantine requirements | Alberta.ca for more information on isolation and quarantine.

Respiratory hygiene practices (e.g. hand washing, covering your cough, social distancing, wearing a mask, etc.) continue to be strongly encouraged. Visit COVID-19 Prevention & Protection | AHS for more information.

A. Isolation for children who attend school
AHS published an online resource that will undergo regular updates as isolation requirements for school children evolve: COVID-19 Guide for Parents of Children Going To School, Childcare or Camps | Alberta Health Services. The recommendations in this resource align with the most current Government of Alberta guidance. However, school authorities continue to have the ability to put in place local measures, such as physical distancing, cohorting, and masking requirements that may exceed provincial guidance. All caregivers are encouraged to consult the requirements outlined by the school board that oversees their child’s school.

B. Talking to children about isolation at home for COVID-19

• Let children know that they are safe. The overwhelming majority of children will only have symptoms of the common cold, if they have any symptoms at all
• Remind children that it is important to prevent germs from spreading every day. They can do this by washing their hands often, covering their mouths when coughing or sneezing, and not sharing their food or drinks. When someone at home is sick, it is extra important to follow this plan.
• Remind children that the purpose of wearing a mask is to help stop the spread of germs. Let them know that the mask is only temporary and soon the household will return to “mask-free” with a usual home routine. Let children know they do NOT have to wear a mask while sleeping
• Listen to children’s questions and concerns. They may have unique concerns, fears, or worries that caregivers do not think about
• Continue to provide physical comfort to children who are isolating if they need it, such as cuddles and hugs. It is best to avoid kisses since this is a higher risk for transmitting the virus between people
Preparing for the New School Year

The Government of Alberta has released a "Preparing for the new school year" webpage for parents, students and school staff to learn how to stay safe as they prepare for the school year in September.


This website also includes planning and guidance resources including a 2021-2022 Parent Guide, a 2021-2022 School Year Plan, and a Guidance for Respiratory Illness Prevention and Management in Schools

For symptoms persisting longer than 14 days from onset

Patients should continue to be monitored until symptom resolution. If the patient remains symptomatic after 10 days, they should be monitored for an additional four days – a total of two weeks after symptoms started. It is recommended that they continue to isolate.

If patient remains symptomatic two weeks after date of onset of symptoms, contact Specialist LINK (Calgary & South Zones) or ConnectMD (Central, Edmonton & North Zones) for advice on further investigations and management.
BACKGROUND

About this pathway

The Provincial Primary Care COVID-19 Pediatric Pathway was originally developed in 2020 as part of the Calgary Zone’s Specialist LINK initiative. Due to the reopening of schools across Alberta in fall 2020, a team that included specialists from Pediatrics, Infectious Disease, AHS Primary Health Care, family physicians, Primary Care Networks (PCNs) and members of the Calgary Zone Specialty Integration Task Group developed this pathway to help support family doctors to care for pediatric patients with COVID-19 in the community.

Authors and conflict of interest declaration

Names of participating reviewers and their conflict of interest declarations are available on request.

Pathway review process, timelines

This primary care pathway was created with up to date knowledge at the time it was created (August 2021). It will be reviewed on a consistent basis as the knowledge and process base evolves. If you have concerns or feedback please email phc@ahs.ca and enter ‘COVID-19 pediatric pathway feedback’ in the subject line.

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## PROVIDER RESOURCES

### COVID-19 Resources

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<tr>
<td>Greenhalgh Trisha, Koh Gerald Choon Huat, Car Josip. Covid-19: a remote assessment in primary care <em>BMJ</em> 2020; 368:m1182</td>
<td><a href="https://www.bmj.com/content/bmj/368/bmj.m1182.full.pdf">https://www.bmj.com/content/bmj/368/bmj.m1182.full.pdf</a></td>
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<tr>
<td>Information for Primary Care Providers: novel coronavirus (COVID-19)</td>
<td><a href="https://www.albertahealthservices.ca/topics/Page16956.aspx">https://www.albertahealthservices.ca/topics/Page16956.aspx</a></td>
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<tr>
<td>Specialist LINK COVID-19 Resources</td>
<td><a href="https://www.specialistlink.ca/covid19/covid19-resources.cfm">https://www.specialistlink.ca/covid19/covid19-resources.cfm</a></td>
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<td>Scientific Advisory Group</td>
<td><a href="https://www.albertahealthservices.ca/topics/Page17074.aspx">https://www.albertahealthservices.ca/topics/Page17074.aspx</a></td>
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### Alberta Public Health Disease Management Guidelines

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### Smoking, Vaping and COVID-19

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<td>Recovery &amp; Rehabilitation After COVID-19: Resources for Health Professionals</td>
<td><a href="https://www.albertahealthservices.ca/topics/Page17540.aspx">https://www.albertahealthservices.ca/topics/Page17540.aspx</a></td>
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### COVID-19 Vaccine Awareness Program (CVAP)

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<td>Physicians who have called patients via telephone or videoconference to address concerns related to COVID-19 Vaccine may claim HSC 03.01CC. Click on link for more information.</td>
<td><a href="https://open.alberta.ca/publications/bulletin-alberta-health-care-insurance-plan-medical-services">https://open.alberta.ca/publications/bulletin-alberta-health-care-insurance-plan-medical-services</a></td>
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<td><strong>COVID-19: How to care for a COVID-19 Patient at Home (available in different languages)</strong></td>
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<td><strong>Jack.org Alberta COVID-19 Youth Mental Health Resource Hub</strong></td>
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<td><strong>Help in Tough Times – resource page</strong></td>
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