Australian Paediatric Surveillance Unit



Severe Complications of Influenza Surveillance

(1st May 2020 to 30th September 2020)

The Department of Health requests that APSU conduct seasonal surveillance for severe complications of laboratory confirmed influenza in children aged < 15 years who are admitted to hospital between May – September 2020 inclusive. This surveillance will improve our understanding of severe influenza disease in children and inform management and vaccination policy.

Please note: due to the COVID-19 pandemic several additional questions related to co-infection with COVID-19 have been added in 2020.

Severe Complications of Influenza has been added to the routine monthly APSU report card. We ask that you report children that meet the case definition criteria as soon as possible by completing an online version of the case report form or by filling out the printable case report form and returning it to the APSU by e-mail or fax.

<u>Aim</u>: To document, in children admitted to hospital with severe complications of influenza: the type of complication, clinical features, medical and vaccination history, treatment, outcomes and co-infection.

Case Definition:

Any child aged < 15 years with laboratory confirmed influenza **AND** admitted to hospital **AND** at least one of the following complications:

- Pneumonia (confirmed radiologically and/or microbiology)
- Acute Respiratory Distress Syndrome (ARDS)
- Laboratory proven viral co-infection including COVID-19
- Laboratory proven bacterial co-infection;
 Bacteraemia; Septicaemia
- Encephalitis / encephalopathy
- Seizures (including simple febrile seizure, prolonged or focal seizure or status epilepticus)
- Transverse myelitis
- Polyneuritis / mononeuritis
- Guillain-Barré syndrome

- Reye Syndrome
- Myocarditis; Pericarditis; Cardiomyopathy
- Rhabdomyolysis
- Purpura fulminans
- Disseminated intravascular coagulopathy
- Shock (requiring >40 ml/kg fluid resuscitation)
- Acute renal failure
- Death, including death at presentation to hospital
- Requirement for supplementary oxygen, non-invasive ventilation, invasive ventilation or Extracorporeal Membrane Oxygenation (ECMO)

Please do not report children hospitalised for influenza who do not have severe complications

If you have seen a case please report the child to the APSU as soon as possible by using this **secure web link to complete an online case report form:**

https://redcap.sydney.edu.au/surveys/?s=4AXAYD7M9C

OR please download and complete the printable case report form, scan and email to SCHN-APSU@health.nsw.gov.au or fax to (02) 9845 3082

Additional case report forms may be downloaded from: http://apsu.org.au/studies/current/

If you require assistance with this surveillance study, please contact the APSU by phone (02) 9845 3005 or email schn-apsu@health.nsw.gov.au

Version 1.5 27/04/2020 Protocol

Australian Paediatric Surveillance Unit

Severe Complications of Influenza in Children < 15 Years and admitted to hospital (1st May 2020 to 30th September 2020)

(1st May 2020 to 30th September 2020)

Please ring the APSU on (02) 9845 3005 if you require assistance with this questionnaire.

Additional questionnaires can be downloaded from www.apsu.org.au

Instructions: Please answer each question by ticking the appropriate box or writing your response in the space provided. DK= Don't Know

REPORTING CLINICIANS DETAILS:		
1. Dr Name:Ph:	Email:	
2. Hospital:	APSU code (<i>if known</i>) 3. Date questionnaire completed: DD/DD/DD	
PATIENT DETAILS:		
10. Ethnicity: Aboriginal Torres Strait Islan Pacific Islander Middle Eastern SECTION A: Diagnosis, Presentation and Treatment	African Other (specify) DK	ian
11. Date of onset of symptoms:		
19. Which of the following symptoms were apparent on presentation to hospital? Fever Cough Dyspnoea Sore throat Vomiting Diarrhoea Headache Malaise / lethargy Myalgia Confusion / disorientation Seizure / unconsciousness Rash Other (specify):	Pneumonia (radiologically confirmed) Acute Respiratory Distress Syndrome (ARDS) Encephalitis / encephalopathy Seizure (specify type):	
21. Was respiratory support required? Yes In 21(a). If yes, please indicate: Oxygen the Invasive ventilation Extracorporate. Was the child treated with: 22(a). Oseltamivir (Tamiflu) Zanamivir (Relendate commenced: Implicate commenced: Impl	Prapy only Non-invasive ventilation (e.g. CPAP) Ireal Membrane Oxygenation (ECMO) Duration?	lays DK

SECTION B: Underlying medical conditions and history			
23. Is the child immunocompromised (e.g. HIV+ve, primary immunodeficiency, treated for malignancy)?			
If Yes, specify			
24. Has the child any other chronic illness that might increase the risk of influenza complications?			
24(a). If yes, which one(s)? Cystic fibrosis Congenital heart disease Neuromuscular disorder Asthma			
Other chronic lung disease, specify: Prematurity Cerebral Palsy			
Other (please specify):			
25. Has the child had previous infection with COVID-19?			
26. Did the child receive the Flu vaccine in the last 12 months?			
26(a) . <i>If yes,</i> which vaccine? DK			
27. Has the child been vaccinated against pneumococcus?			
28. Prior to admission did the child have contact with a person with laboratory confirmed influenza?			
28(a). If yes, what was the relationship to the child? (e.g. Parent, sibling, friend):			
28(b). <i>If yes,</i> was the contact person a:			
29. Did the child travel overseas in the 10 days before onset of symptoms?			
30. Has the child had close contact with farm animals in the past 10 days?			
SECTION C: COVID-19			
31. If the child has co-infection with COVID-19, did the child acquire it overseas?			
32 . Is there a known contact? \square Yes \square No \square DK If yes, was the contact adult or child? \square Adult \square Child \square DK			
33. Was the infection of the contact: Overseas acquired locally acquired or part of a known cluster			
□ Locally acquired, contact not identified □ Contact under investigation □ DK			
SECTION D: Outcome			
34 . At the time of reporting, was the child: \square In ICU \square Hospitalised \square Discharged Alive \square Died \square DK			
35. Date of Discharge:			
36 . Were there any ongoing problems on discharge?			
37. If died, date of death: DD/DD/DD Was a cause of death determined? Yes No DK <i>If yes,</i> specify:			

If the child is still in ICU or hospital at the time of this report we will contact you in one month to see if the child has been discharged well or with problems or has died.

Please return this case report form ASAP by email to SCHN-APSU@health.nsw.gov.au or via FAX: (02) 9845 3082

Thank you for your help with this research project.

Please return this questionnaire to the APSU via email to SCHN-APSU@health.nsw.gov.au
or by mail to: Australian Paediatric Surveillance Unit, Kids Research, Locked Bag 4001, Westmead NSW 2145
- even if you don't complete all items.

The APSU is affiliated with the Royal Australasian College of Physicians (Paediatrics and Child Health Division) and Faculty of Medicine and Health, The University of Sydney.

The APSU is funded by the Australian Government Department of Health.

This study has been approved by a Human Research Ethics Committee properly constituted under NHMRC guidelines