Australian Paediatric Surveillance Unit

Influenza Surveillance 1st June to 30th September 2016

The Department of Health has requested for APSU to conduct seasonal surveillance for severe complications of laboratory confirmed influenza in children aged < 15 years and admitted to hospital. This surveillance will inform future vaccination policy and improve our understanding of severe influenza disease in children.

Severe Complications of Influenza will be added to the routine monthly APSU report card. However, we ask that you report children that meet the case definition criteria as soon as possible by e-mail, fax or phone and return the case report form on the reverse of this page or complete an on-line version of the case report form.

**Aim:** To document the clinical features, medical and vaccination history, and outcome of children admitted to hospital with severe complications of influenza

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

- Pneumonia (Confirmed on X-ray or microbiology)
- Oxygen requirement
- Mechanical ventilation
- Laboratory proven secondary bacterial co infection; Bacteraemia; Septicaemia;
- Encephalitis / encephalopathy
- Seizures (including simple febrile seizure, prolonged or focal seizure or status epilepticus)
- Transverse myelitis
- Polynueuritis/ mononeuritis
- Guillain-Barré syndrome
- Reye Syndrome
- Myocarditis; Pericarditis; Cardiomyopathy
- Rhabdomyolysis
- Purpura fulminans
- Disseminated coagulopathy
- Shock (requiring >40 ml/kg fluid resuscitation)
- Acute renal failure
- Death, including death at presentation to hospital

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

If you have seen a case of severe hospitalized influenza please report the child to the APSU as soon as possible by **phone 02 98453005; email schn-apsu@health.nsw.gov.au or fax: 02 98453082**

Please use this **secure web link to an on-line case report form**
https://surveys.sydney.edu.au/surveys/?s=iCRQVoMwAg

**OR** please complete the case report form overleaf and fax back to APSU: 02 98453082

Additional case report forms may be downloaded from: **www.apsu.org.au**

If you need assistance with this surveillance study please contact the APSU
**Severe Influenza in children < 15 Years (June to September 2016)**

**Australian Paediatric Surveillance Unit**

*Please ring the APSU 02 9845 3005 if you have any questions about this questionnaire. Additional questionnaires can be downloaded 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

1. Dr Name: ___________________________ Ph: __________________________ Email: __________________________

2. Hospital: ___________________________ APSU code (if have one): ____________

### PATIENT DETAILS

4. First 2 letters of first name: ____________
5. First 2 letters of surname: ____________
6. Date of Birth: ____________

7. Sex: ☐ M ☐ F ☐ Other ☐ specify ____________

8. Postcode of family: ____________
9. Country of Birth: Australia ☐ Other ☐ specify ____________

### SECTION A: Diagnosis, Presentation and Treatment

10. Ethnicity: Aboriginal ☐ Torres Strait Islander ☐ Both Aboriginal and Torres Strait Islander ☐ Caucasian ☐ Asian ☐ Pacific Islander ☐ Middle Eastern ☐ African ☐ Other ☐ (specify) ____________

#### PATIENT DETAILS

11. Date of onset of symptoms: ____________
12. Date of 1st admission to hospital: ____________
13. Admitted to ICU? Yes ☐ No ☐ DK ☐

14. How was influenza confirmed?

- ☐ Nose swab
- ☐ Nasopharyngeal aspirate
- ☐ Other (specify): ____________

15. Which lab tests were +ve for influenza?

- ☐ Culture
- ☐ PCR
- ☐ IF
- ☐ Serology
- ☐ Rapid Antigen Test

16. Results: Influenza type? ☐ A ☐ B
17. Was further sub-typing done? Yes ☐ No ☐ DK ☐

18. **If Yes,** Which sub-type was present? (eg. H1N1-09, H3N2, Shanghai-like, Malaysia-like)

#### Which of the following symptoms were apparent on presentation to hospital?

- ☐ Fever
- ☐ Cough
- ☐ Dyspnoea
- ☐ Sore throat
- ☐ Vomiting
- ☐ Diarrhoea
- ☐ Headache
- ☐ Malaria/lethargy
- ☐ Myalgia
- ☐ Confusion/disorientation
- ☐ Seizure/unconsciousness
- ☐ Rash
- ☐ Other (specify) ____________

19. **If Yes,** which one(s)? ☐ Cystic fibrosis ☐ Congenital heart disease ☐ Neuromuscular disorder ☐ Asthma

- ☐ Other chronic lung disease ☐ Other (Specify) ____________

20. Please tick all complications present during the hospital stay

- ☐ Pneumonia (X-ray confirmed)
- ☐ Oxygen therapy needed?
- ☐ Mechanical Ventilation? Yes ☐ for how long? _______ Days
- ☐ Encephalitis / encephalopathy
- ☐ Seizure: (specify type): ____________
- ☐ Myocarditis ☐ Pericarditis ☐ Cardiomyopathy
- ☐ Rhabdomyolysis
- ☐ Purpura fulminans ☐ Disseminated coagulopathy
- ☐ Transverse myelitis ☐ Polyneuritis ☐ mononeuritis
- ☐ Guillain-Barré syndrome
- ☐ Shock (requiring >40 ml/kg fluid resuscitation)
- ☐ Acute renal failure ☐ Reye’s Syndrome
- ☐ Laboratory proven bacterial co-infection; Specify organism and site:
- ☐ Laboratory proven viral co-infection; Specify organism and site:

21. Any other complications? Yes ☐ No ☐ DK ☐ If Yes, specify: ____________

22. **Was the child treated with:**

(a) ☐ Tamiflu ☐ Relenza ☐ Neither ☐ DK ☐ Date Commenced: ____________

(b) ☐ Antibiotics ☐ if yes, which ones? ____________

(c) ☐ Nurofen ☐ Other NSAIDS ☐ Aspirin

#### SECTION B: Underlying medical conditions and history

23. Is the child immunocompromised (eg. HIV+ve, primary immunodeficiency, treated for malignancy)? Yes ☐ No ☐ DK ☐

If Yes, specify ____________

24. Has the child any other chronic illness that might increase the risk of influenza complications? Yes ☐ No ☐ DK ☐

If yes, which one(s)? ☐ Cystic fibrosis ☐ Congenital heart disease ☐ Neuromuscular disorder ☐ Asthma

- ☐ Other chronic lung disease ☐ Other (Specify) ____________

25. Did the child receive the Flu vaccine in the last 12 months? Yes ☐ No ☐ DK ☐ If yes, when? ____________

26. If yes which vaccine? ____________

27. Has the child been vaccinated against pneumococcus? Yes ☐ No ☐ DK ☐ If yes, when? ____________

28. Prior to admission did the child have contact with a person with lab confirmed influenza? Yes ☐ No ☐ DK ☐

29. **If yes,** who was the contact person? (eg. Parent, sibling, friend)

30. Was the contact person a: ☐ Child ☐ Adult ☐ NS ☐ Other ☐ specify ____________

31. **Age of contact person:** ____________

32. Did the child travel overseas in the 10 days before onset of symptoms? Yes ☐ No ☐ DK ☐ If yes, where? ____________

33. Has the child had close contact with farm animals in the past 10 days? Yes ☐ No ☐ DK ☐ If yes, what type? ____________

#### SECTION C: Outcome

34. **At the time of reporting,** was the child ☐ In ICU ☐ Hospitalised ☐ Discharged Alive ☐ Died

35. **Date of Discharge or Death** ☐ / ☐ / ☐ ☐ / ☐ / ☐

36. **If died, autopsy performed?** Yes ☐ No ☐ DK ☐

37. Were there any ongoing problems on discharge? Yes ☐ No ☐ DK ☐ If yes, specify: ____________

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Please return this case report form ASAP via FAX: 02 9845 3082