

Paediatric Respiratory Pathogen Report Week 29, 17th July – 23rd July 2023

- RSV cases and proportion positive remained stable this week and remains lower than historically observed at this time of last year.
- Influenza proportion positive in paediatric patients decreased this week and is approaching levels historically observed at this time of year.
- PathWest detected 41 influenza cases in paediatric patients. Of these, 21 were influenza A/H1, 18 influenza B, 1 influenza A/H3 and 1 influenza A yet to be subtyped.
- Other common respiratory viruses detected in paediatric patients this week were parainfluenza (21 cases) adenovirus (31 cases), rhinovirus (15 cases) and SARS-CoV-2 (6 cases).

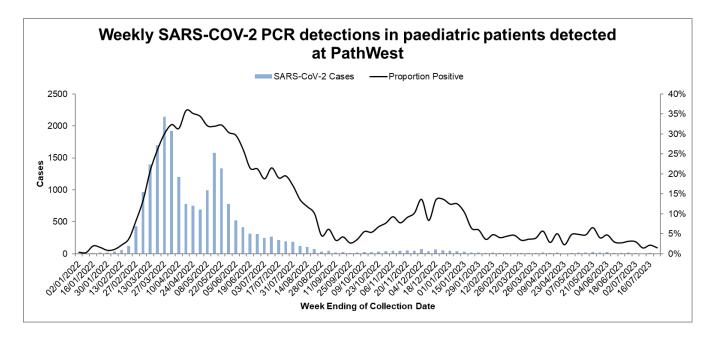


Figure 1: Weekly SARS-CoV-2 detections in hospital attending patients and community paediatric patients. Data is for PCR samples tested by PathWest only.

SARS-CoV-2 cases and proportion positive in paediatric patients remain low this week.

Data is representative of all patients attending a hospital (public or private) in Western Australia, for which a respiratory sample was collected and tested at a PathWest laboratory.



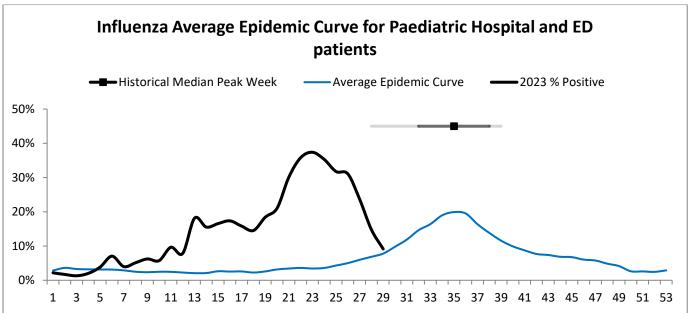


Figure 2: The current season plotted against the Paediatric Influenza Average Epidemic Curve. The average epidemic curve was constructed by averaging historic WA seasons using PathWest data from 2007-2019. Data represents all WA hospitalised and ED paediatric patients tested by PathWest

Influenza proportion positive (9.1%) decreased and is approaching levels historically observed at this time of year.

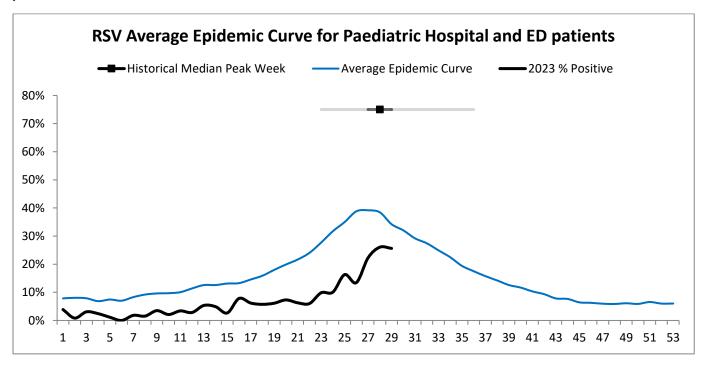


Figure 3: The current season plotted against the Paediatric RSV Average Epidemic Curve. The average epidemic curve was constructed by averaging historic WA seasons using PathWest data from 2007-2019. Data represents all WA hospitalised and ED paediatric patients tested by PathWest.

RSV proportion positive remained stable (25.4%) and remains below levels historically observed at this time of year.

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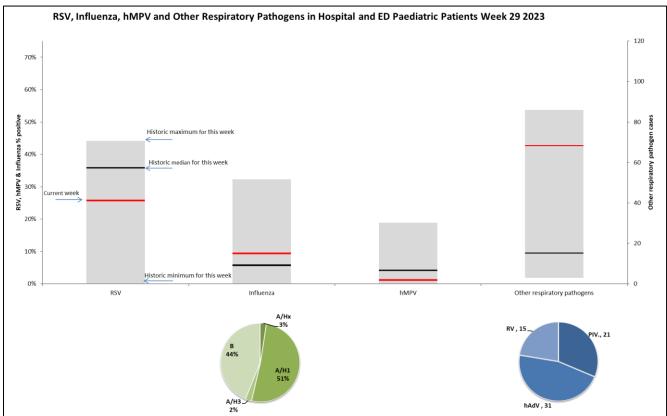


Figure 4: Proportion positive (RSV, hMPV & influenza) or cases (other respiratory pathogens) for the current week (red line) plotted against the historic range (grey box) and median (black line) for this week. Pie charts represent the breakdown of influenza subtypes and the count of other respiratory pathogens. Data represents hospitalised and ED paediatric patients tested by PathWest. Historic data is for years 2007-2019. Please note: Due to the escalation of rapid PCR testing, the number influenza and RSV positive samples which do not receive a subtyping test has increased.

Influenza proportion positive (9.1%) was higher than the historic median (5.5%) for this week. RSV proportion positive (25.4%) was lower than the historical median (35.6%) for this week. Other respiratory virus detections were higher than the historic median for this week. These detections were predominantly adenovirus, rhinovirus, and parainfluenza viruses. Testing for these viruses is currently higher than it has been in previous years.



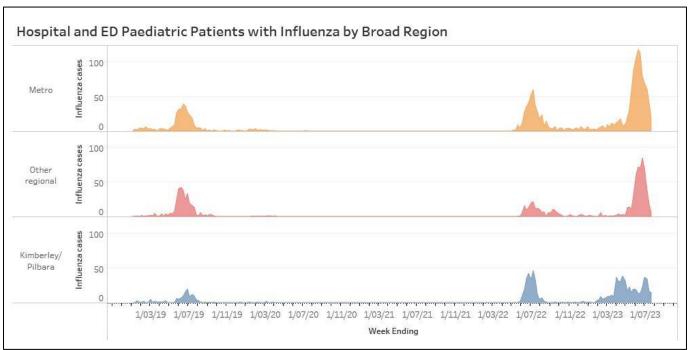


Figure 5: Hospital attending paediatric patients with influenza in Perth metropolitan region, in both Kimberley and Pilbara combined and in the remaining regions combined.

Of the 41 paediatric influenza cases this week, 19 were from the Metro area, 9 were from the Pilbara, 7 from Kimberley, 3 from the Great Southern, 2 from Midwest and 1 from the Southwest.

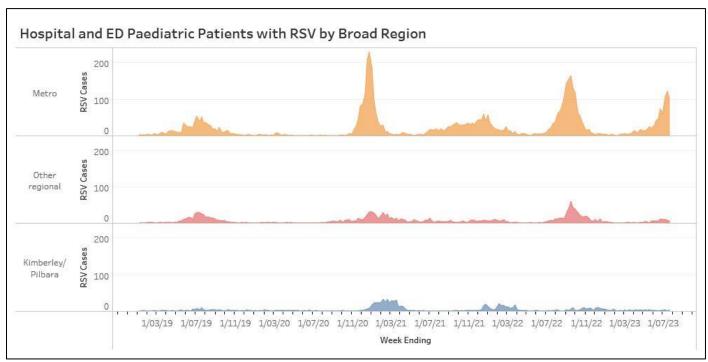


Figure 6: Hospital attending paediatric patients with RSV in Perth metropolitan region, in both Kimberley and Pilbara combined and in the remaining regions combined.

Of the 112 paediatric RSV cases this week, 103 were from the Metro area, 3 from the Southwest, 2 from each of the Kimberley and Great Southern, 1 from each of Pilbara and Goldfields.

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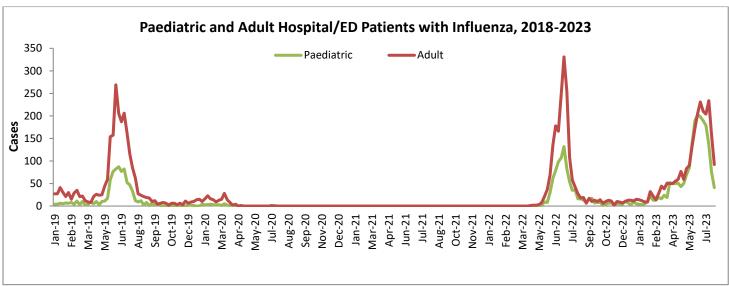


Figure 7: Paediatric and adult hospital attending patients with influenza, 2018-2023.

There were 41 children and 92 adults with influenza who attended a hospital.

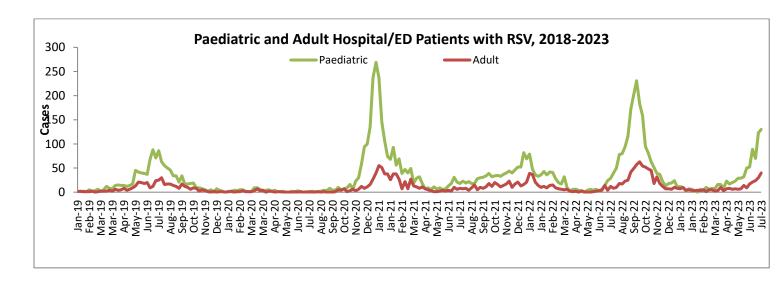


Figure 8: Paediatric and adult hospital attending patients with RSV, 2018-2023.

There were 112 children and 48 adults with RSV who attended a hospital.