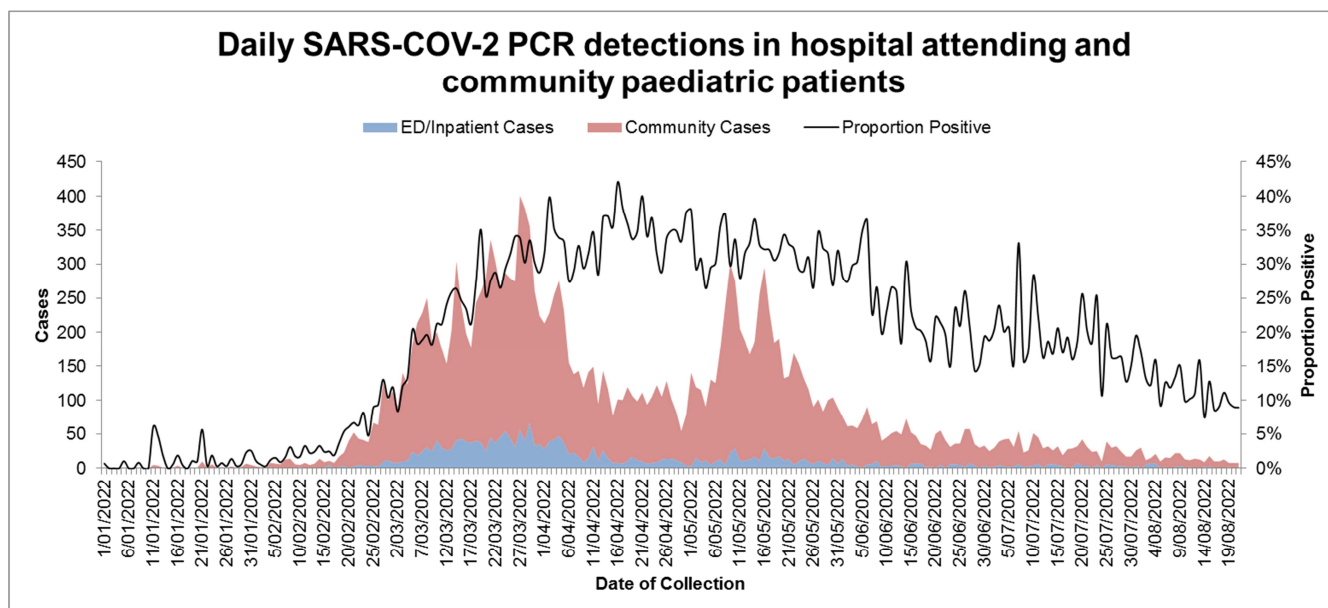


## Paediatric Respiratory Pathogen Report Week 33, 15<sup>th</sup> August – 21<sup>st</sup> August 2022

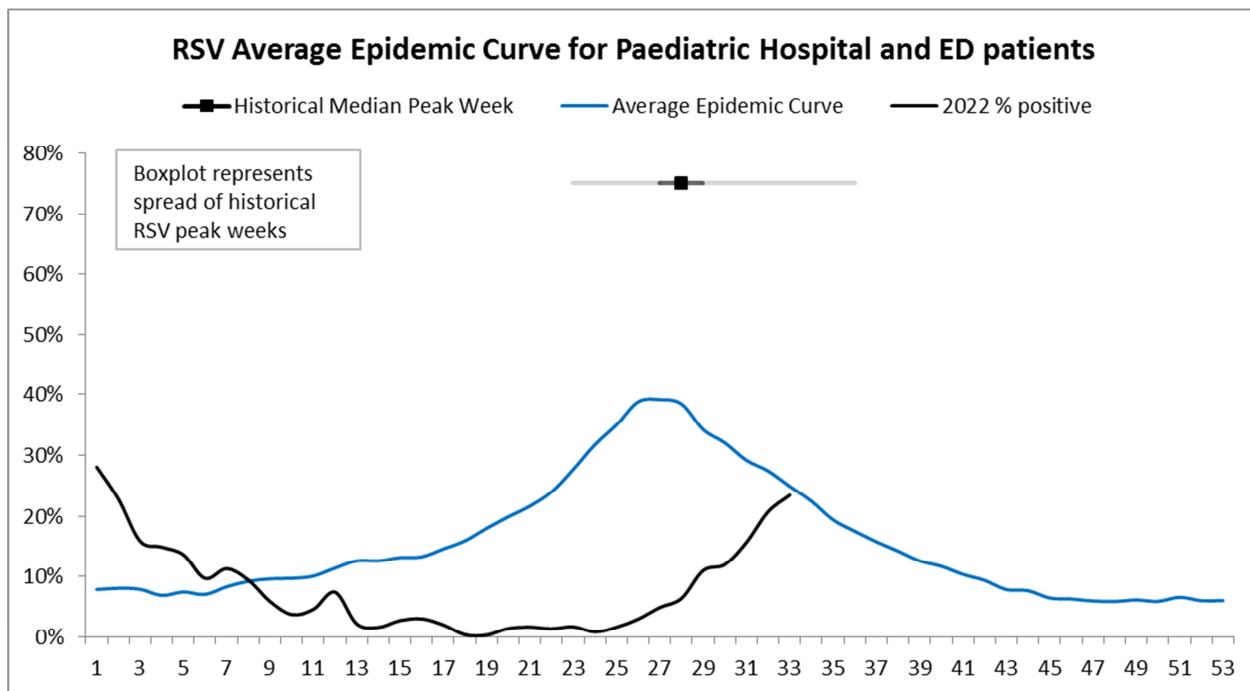
- RSV cases and proportion positive in paediatric patients increased this week and is similar to levels normally observed at this time of year.
- Influenza cases and proportion positive in paediatric patients decreased this week.
- PathWest detected 15 paediatric influenza A cases this week. Of those assigned a subtype, 85% were influenza A/H3.
- SARS-CoV-2 was the most common respiratory virus detected in paediatric patients this week, with 75 cases.



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

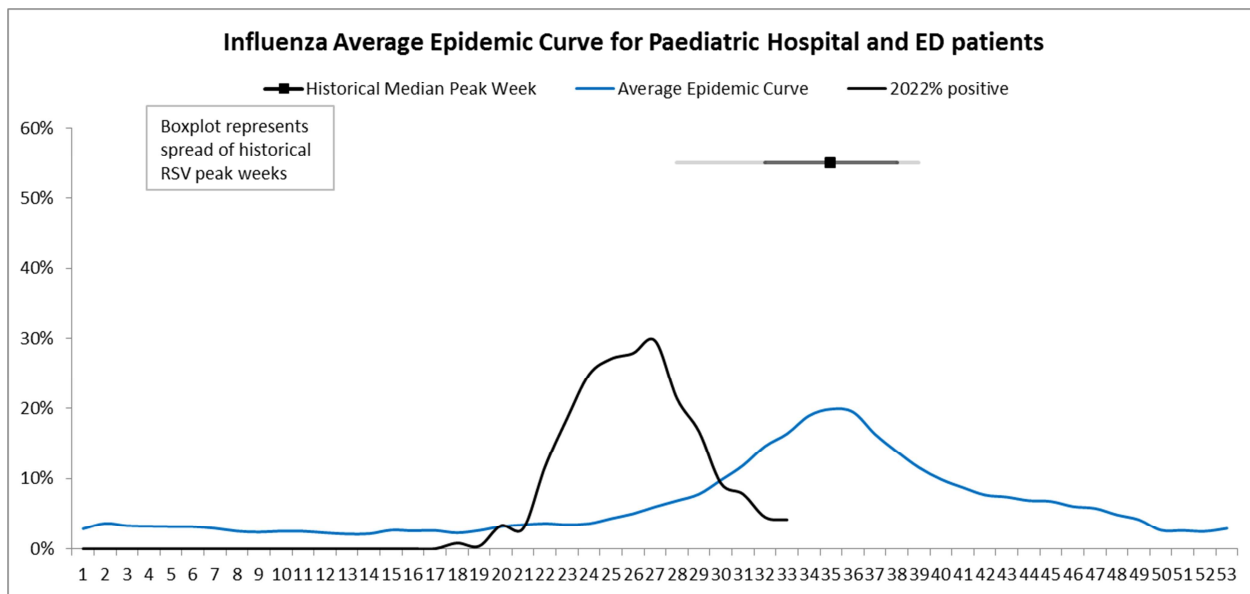
*SARS-COV-2 PCR cases and proportion positive in paediatric cases is decreasing.*

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 RSV Average Epidemic Curve. The average epidemic curve was constructed by averaging all seasons measured at PathWest QE2 from 2007-2019. Data represents all WA hospitalised and ED paediatric patients tested by PathWest.

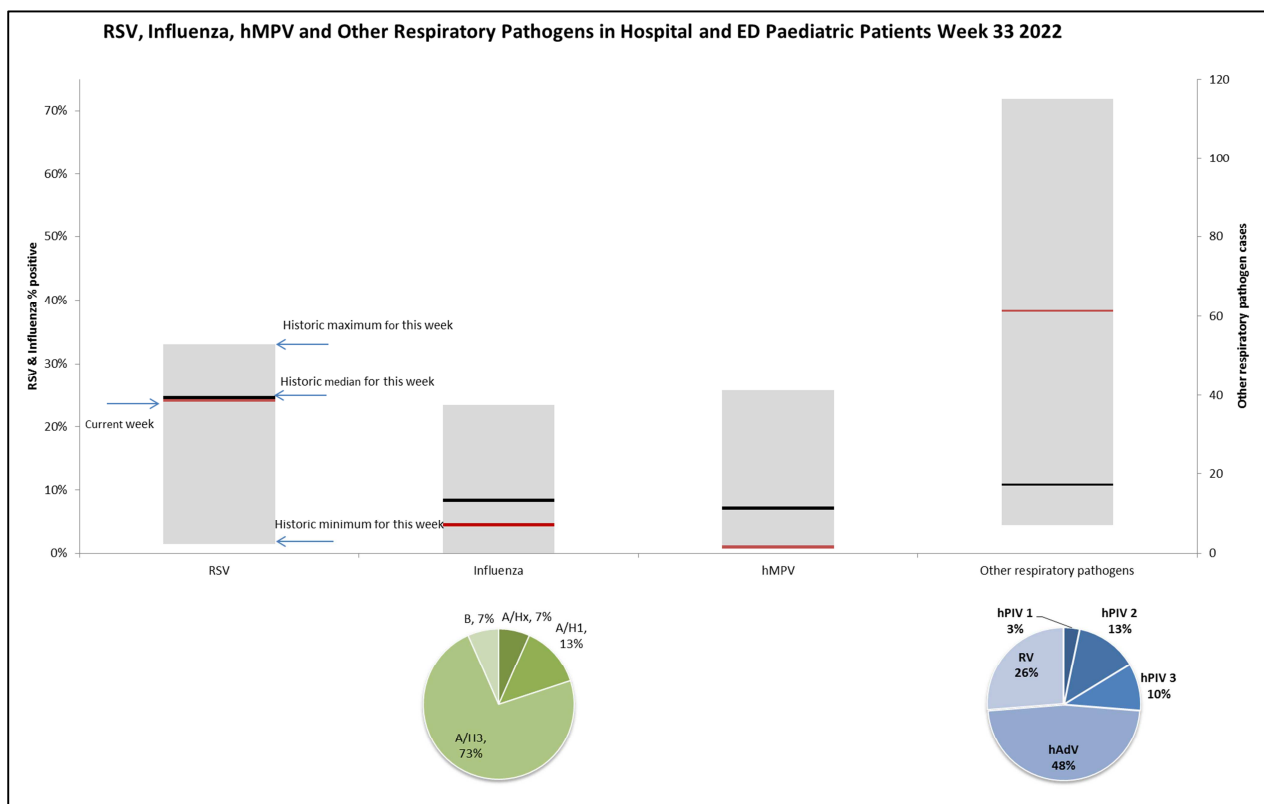
*RSV proportion positive (23.9%) is increasing and is similar to levels historically observed at this time of year.*



**Figure 3:** The current season plotted against the Paediatric Influenza Average Epidemic Curve. The average epidemic curve was constructed by averaging all seasons measured at PathWest QE2 from 2007-2019. Data represents all WA hospitalised and ED paediatric patients tested by PathWest.

*Influenza proportion positive (4%) is decreasing and below levels historically observed at this time of year.*

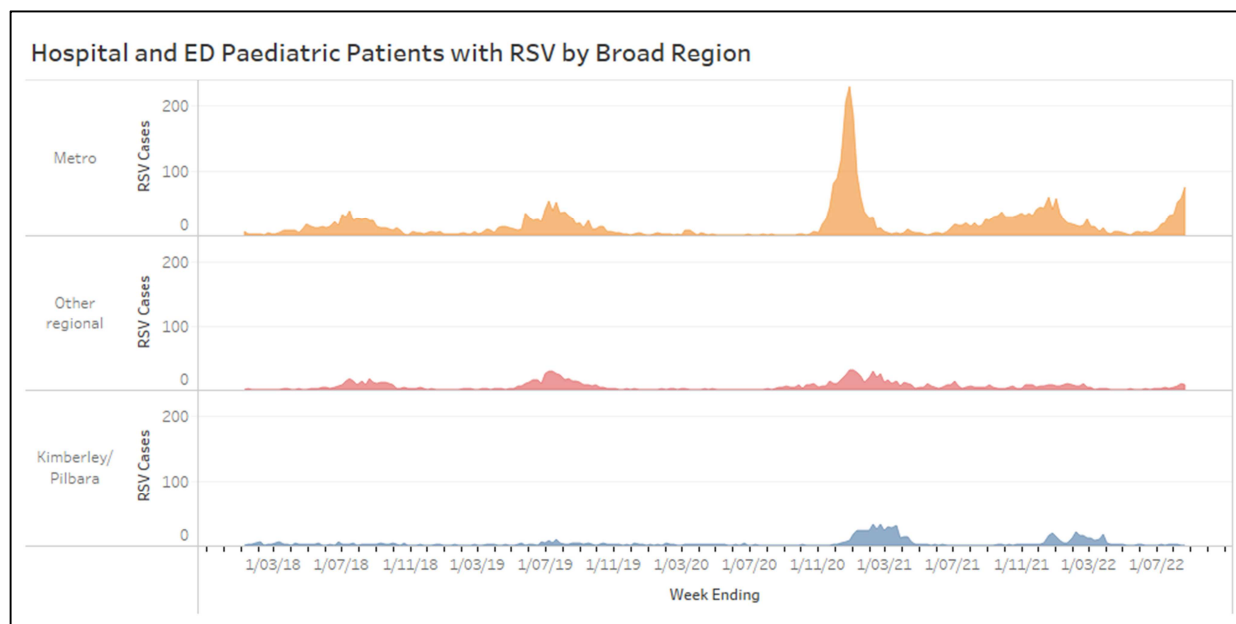
Data is representative of all patients attending a hospital (public or private) in Western Australia, for which a respiratory sample was collected and tested at a PathWest laboratory.



**Figure 4:** Proportion positive (RSV & 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.

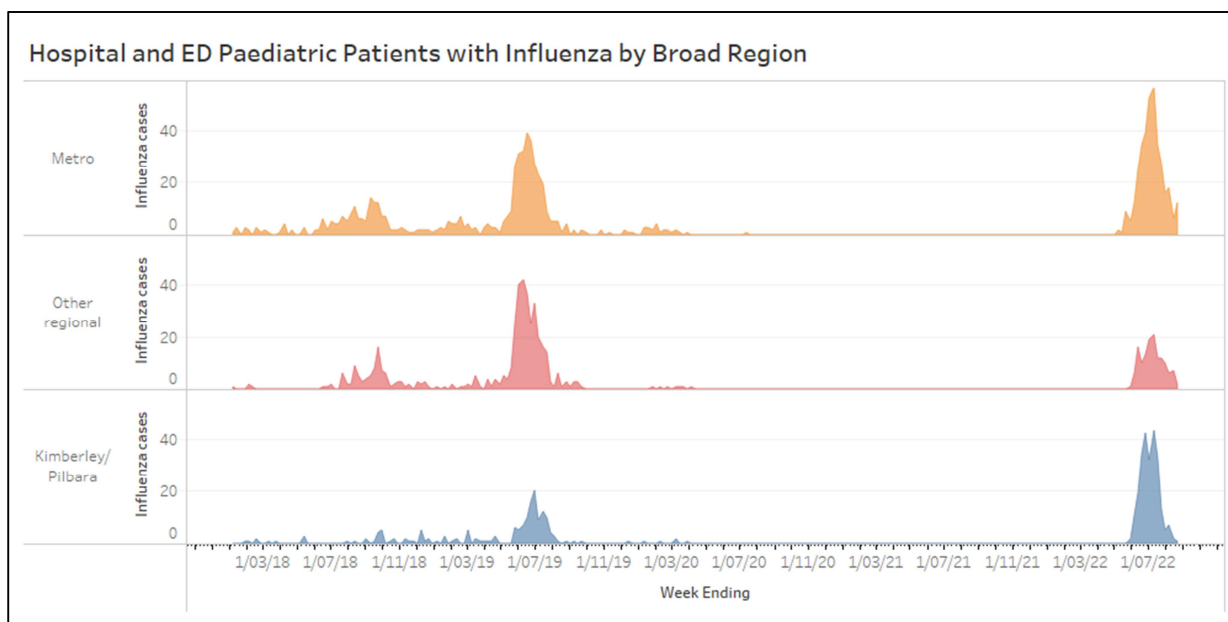
*RSV proportion positive (23.9%) was similar to the historic median (24.1%) for this week. Influenza proportion positive (4%) was below the historic median (8%). Other respiratory virus detections were higher than the historic median for this week. These detections were predominantly adenovirus, rhinovirus and parainfluenza viruses. Testing for these viruses is currently higher than it has been in previous years.*

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

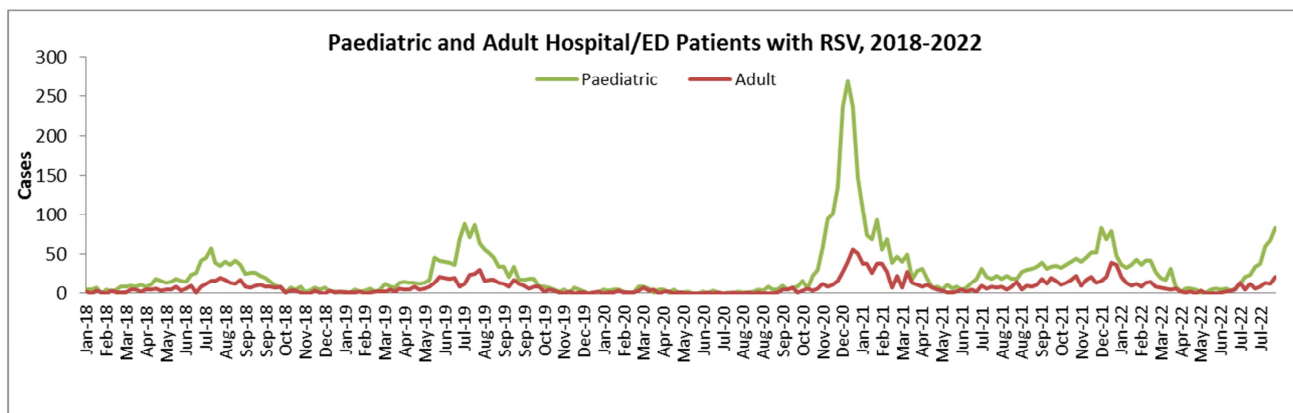
*Of the 82 paediatric cases of RSV this week, 74 were from the Metro area, six from the Southwest, and one from each of the Great Southern and Wheatbelt.*



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

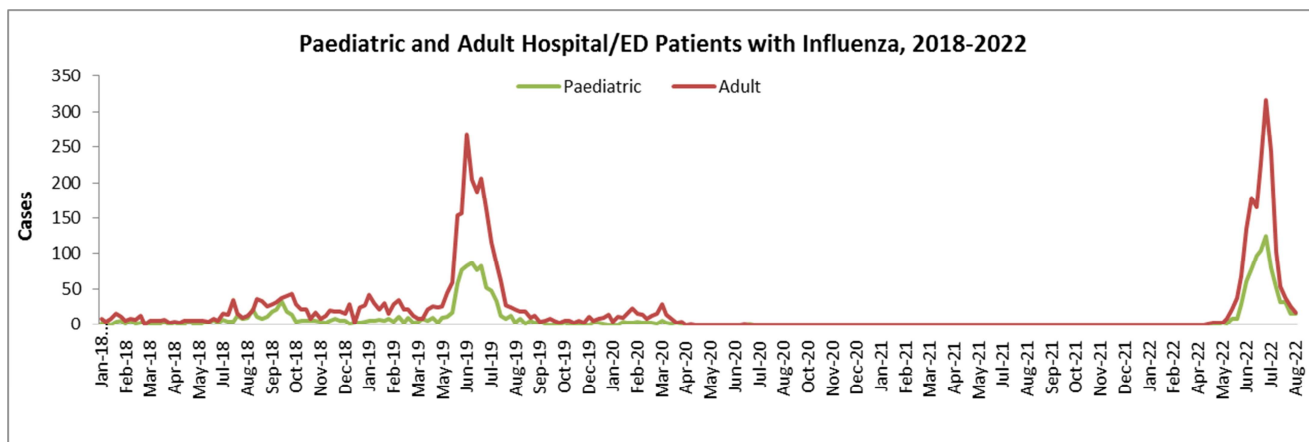
*There were 15 paediatric cases of influenza this week, 12 were from the Metro area, and one from each of the Great Southern, Wheatbelt and Kimberley.*

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 7:** Paediatric and adult hospital attending patients with RSV, 2018-2022.

*There were 82 children and 21 adults with RSV who attended a hospital.*



**Figure 8:** Paediatric and adult hospital attending patients with influenza, 2018-2022.

*There were 15 children and 17 adults with influenza who attended a hospital.*

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.