

Paediatric Respiratory Pathogen Report

Week 28, 8th July – 14th July 2024

- There were 88 paediatric RSV cases detected at PathWest this week. RSV proportion positive is increasing however remains below levels normally seen at this time of year.
- PathWest detected 54 influenza cases in paediatric patients. Forty-four cases were influenza A/H3, 4 cases were influenza A/H1, 4 cases were Influenza A yet to be subtyped and 2 cases were influenza B.
- Pathwest detected 9 cases of SARS-CoV-2 in paediatric patients this week.
- Other common respiratory pathogens detected in paediatric patients this week were rhinovirus (39 cases), Adenovirus (24 cases), parainfluenza (17 cases), and *Bordetella pertussis* (5 cases).

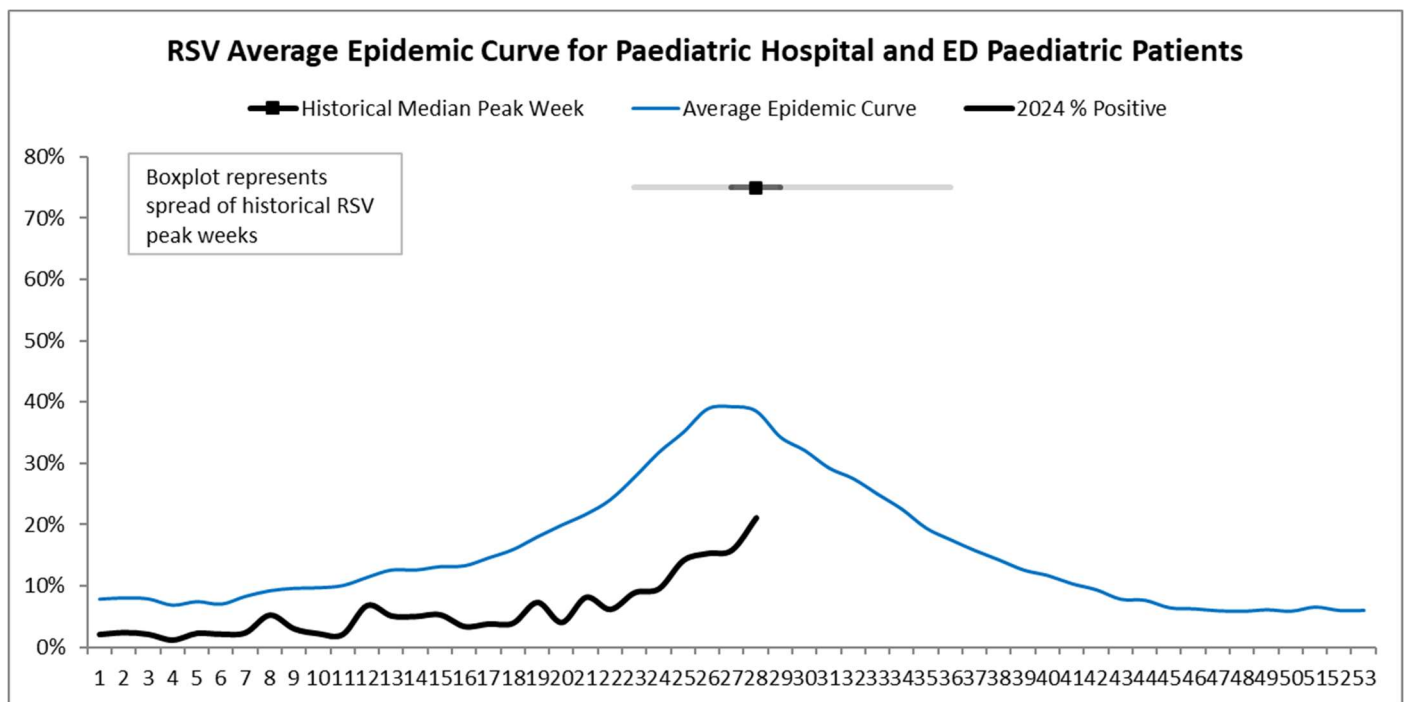


Figure 1: The current season plotted against the Paediatric RSV Average Epidemic Curve. The average epidemic curve was constructed by averaging historic WA seasons using PathWest data from 2007-2019. Data represents all WA hospitalised, and ED paediatric patients tested by PathWest.

RSV proportion positive (21.1%) increased however remains below levels historically seen at this time of the 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.

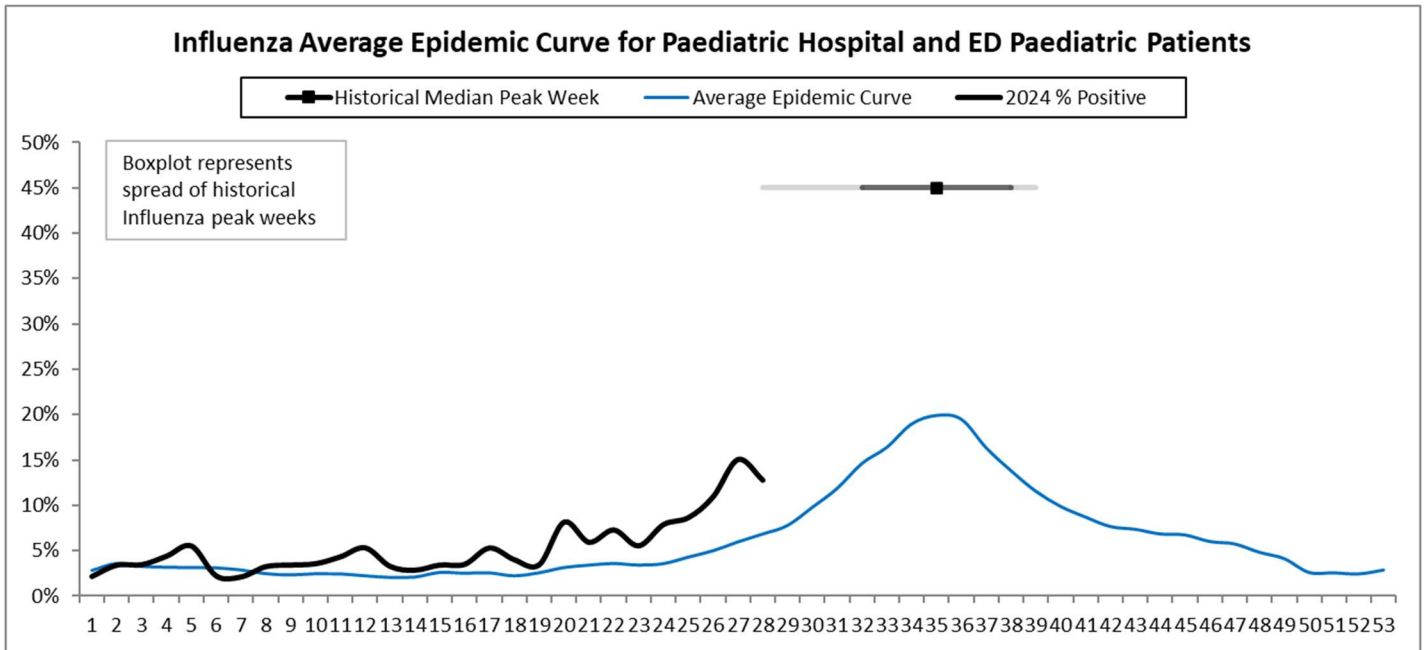


Figure 2: The current season plotted against the Paediatric Influenza Average Epidemic Curve. The average epidemic curve was constructed by averaging historic WA seasons using PathWest data from 2007-2019. Data represents all WA hospitalised, and ED paediatric patients tested by PathWest.

Influenza proportion positive (12.8%) decreased however remains above levels historically observed at this time of year.

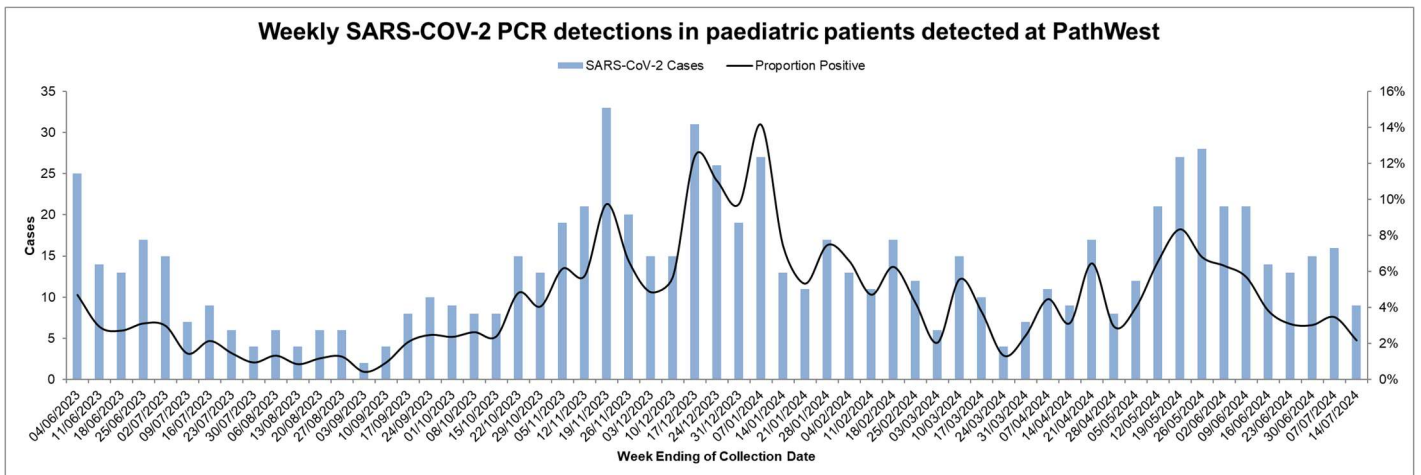


Figure 3: Weekly SARS-CoV-2 detections in hospital attending patients and community paediatric patients. Data is for PCR samples tested by PathWest only.

SARS-CoV-2 cases (n=9) and proportion positive (2.2%) decreased in paediatric patients 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.

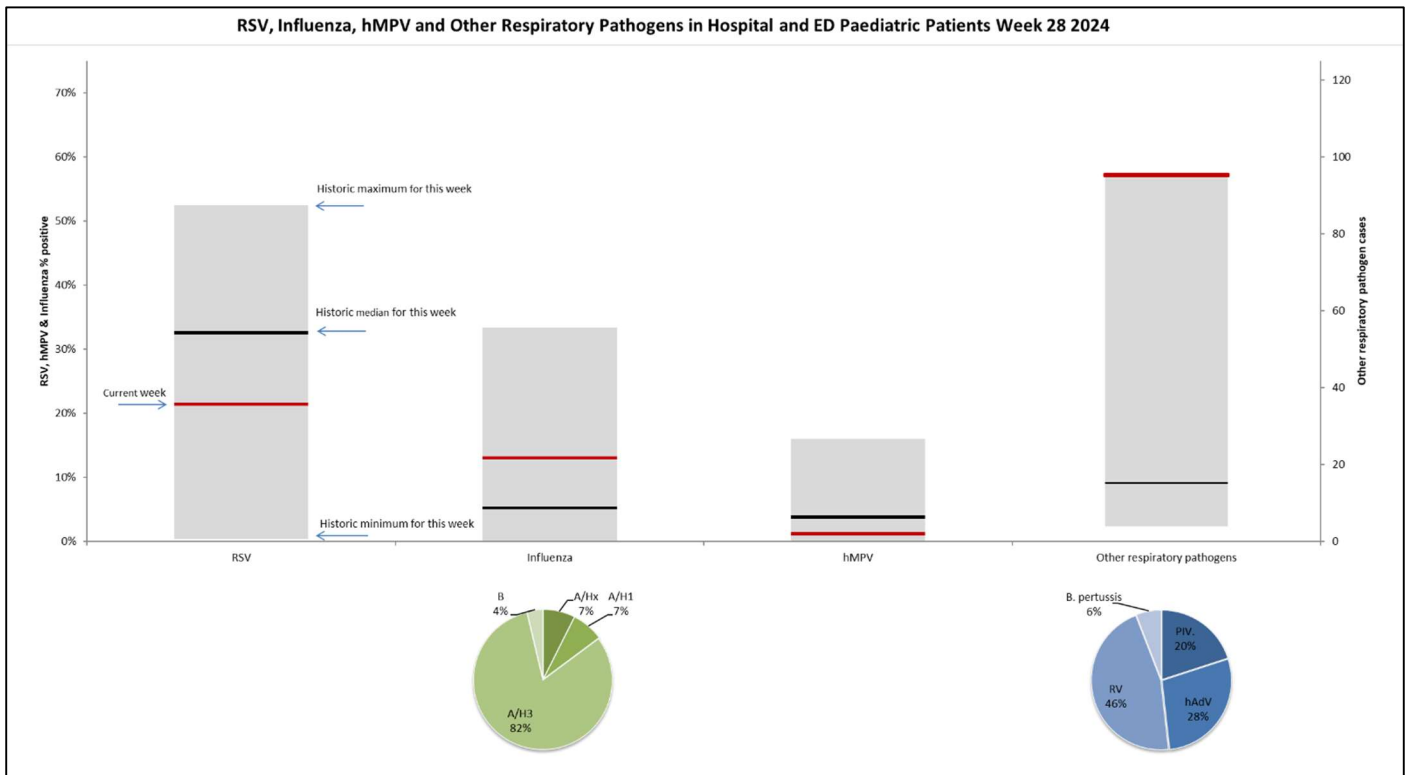


Figure 3: Proportion positive (RSV, hMPV & influenza) or cases (other respiratory pathogens) for the current week (red line) plotted against the historic range (grey box) and median (black line) for this week. Pie charts represent the breakdown of influenza subtypes and the count of other respiratory 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 of influenza and RSV positive samples which do not receive a subtyping test has increased.

RSV proportion positive (21.1%) is lower than the historical median of 32.3%. Influenza proportion positive (12.8%) is higher than the historic median of 5.0% for this week. Other respiratory viruses mainly, Adenovirus, parainfluenza, and rhinovirus were higher than their historic median levels. 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.

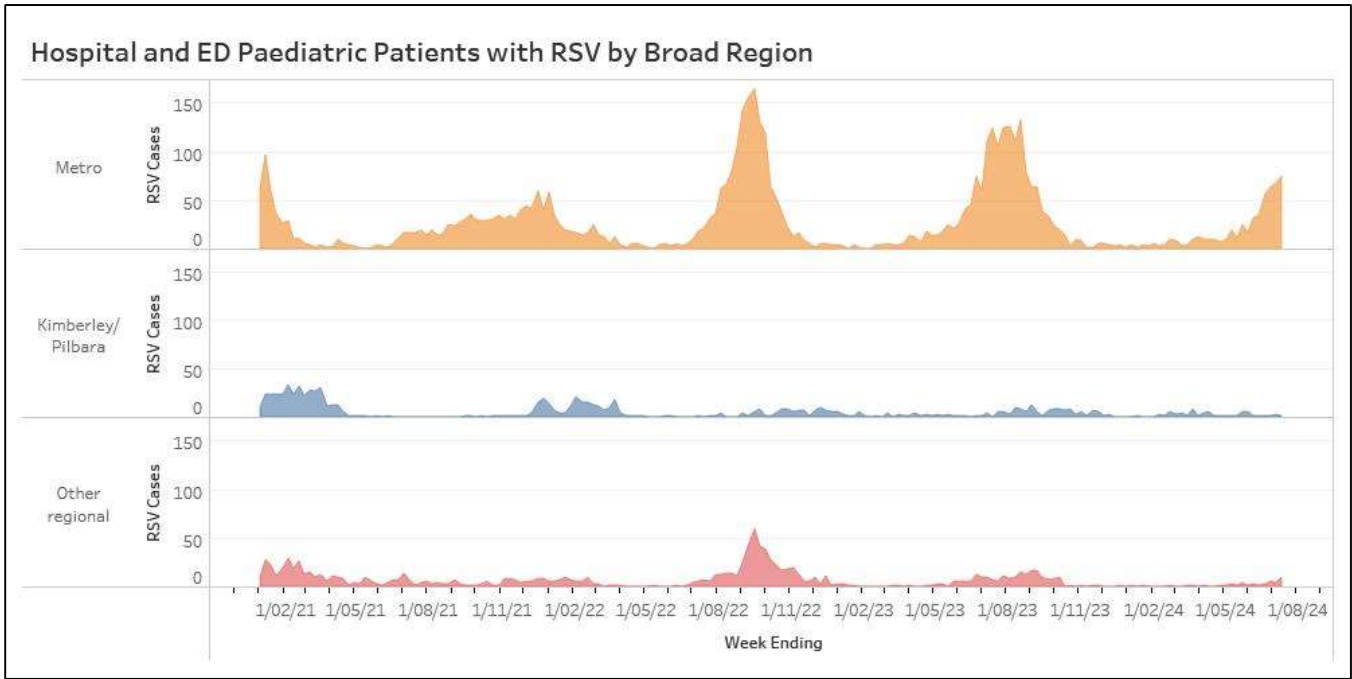


Figure 5: Hospital attending paediatric patients with RSV in Perth metropolitan region, in both Kimberley and Pilbara combined and in the remaining regions combined.

Of the 88 paediatric RSV cases, 77 were from the Metro area, 5 were from the Southwest, 2 were from the Wheatbelt and there was 1 from each of the Kimberley and Pilbara, Goldfields, and Midwest.

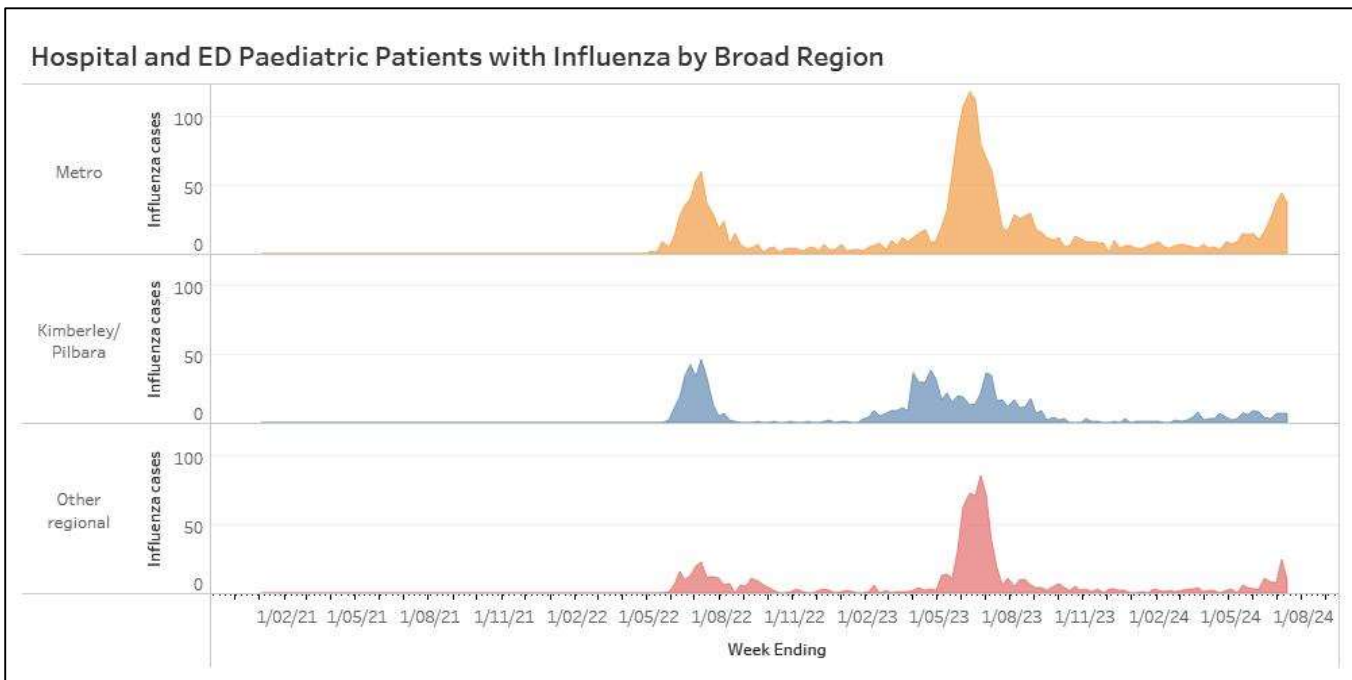


Figure 6: Hospital attending paediatric patients with influenza in Perth metropolitan region, in both Kimberley and Pilbara combined and in the remaining regions combined.

Of the 54 paediatric influenza cases, 37 were from the Metro area, 7 were from the Pilbara, 5 were from the Southwest, 2 were from the Goldfields and 1 from each of the Midwest, Wheatbelt and Great Southern.

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.

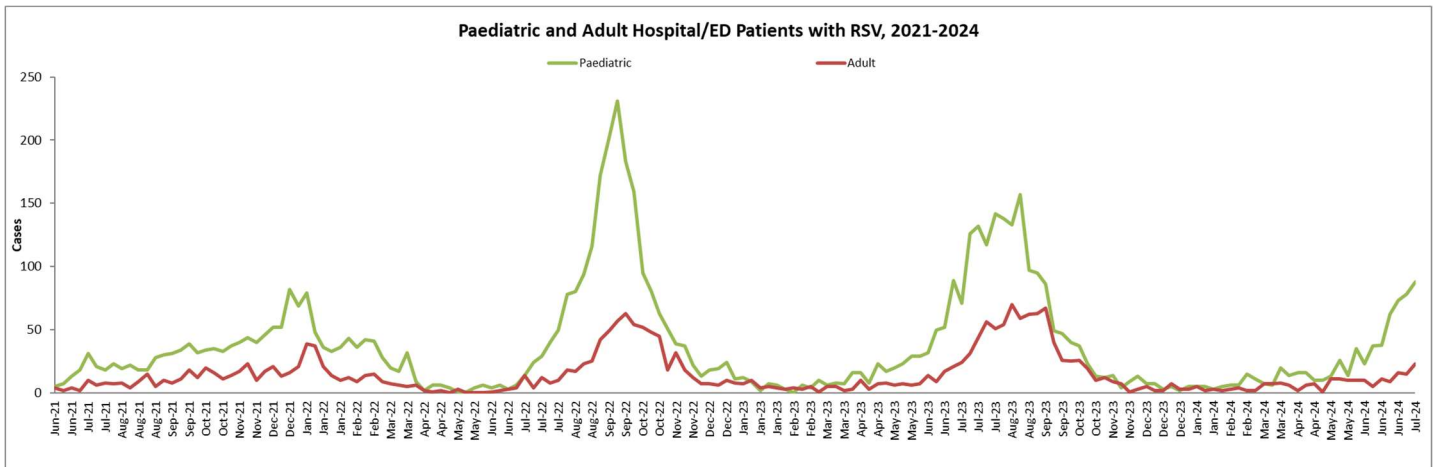


Figure 7: Paediatric and adult hospital attending patients with RSV, 2019-2024.

There were 88 children and 23 adults with RSV who attended a hospital.

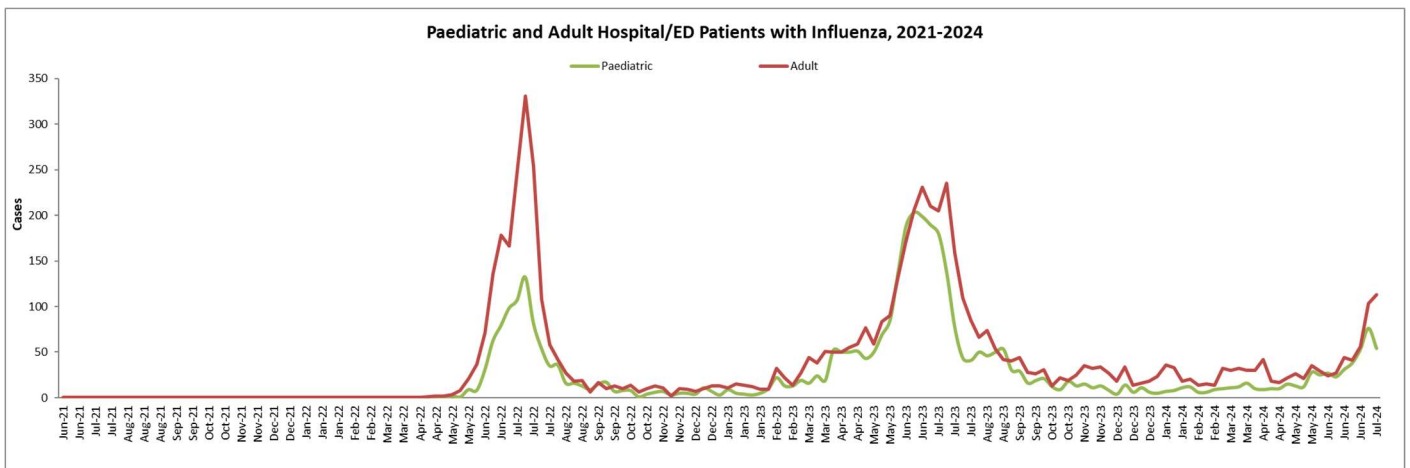


Figure 8: Paediatric and adult hospital attending patients with influenza, 2019-2024.

There were 54 children and 113 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.