

RSV Bronchiolitis

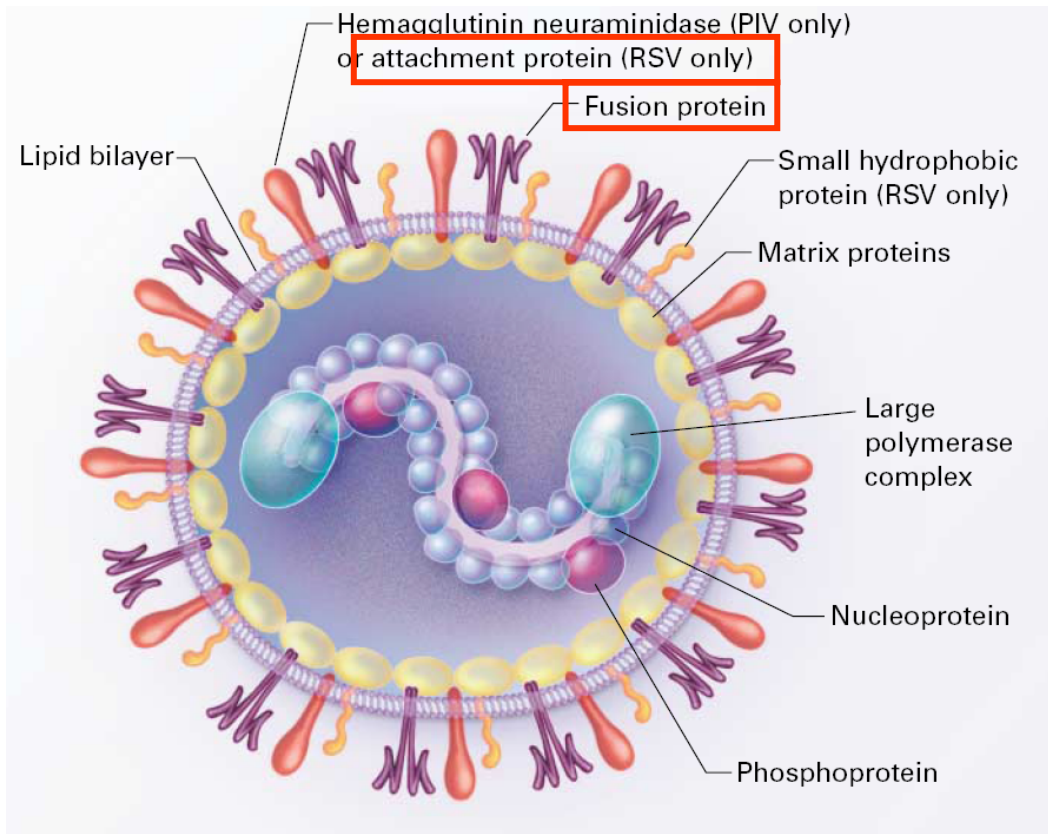
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Respiratory Syncytial Virus



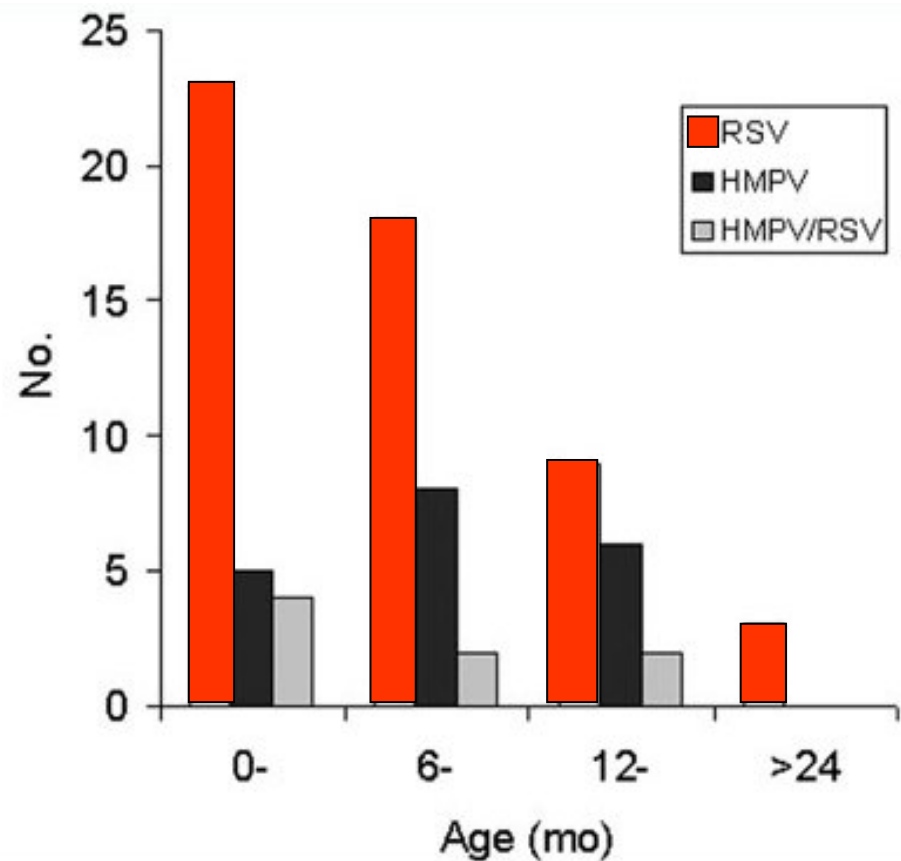
ssRNA enveloped virus
Family *Paramyxoviridae*
Genus *Pneumovirus*
Subgroups *A and B*

N Engl J Med 2001;344:1917-28.

- Fusion (F) proteins → viral penetration
- Attachment (G) proteins → viral adherence to the host cells

Epidemiology: age

- Important cause of lower respiratory disease in young infants (bronchiolitis and pneumonia)
- Peak incidence is at age 2 months*
- Most infected at least once by age 2 yrs of age and re-infection through out life is common



Emerg Infect Dis 2003; 9(12).

* Am J Epidemiol 1973; 98: 289-300.

Epidemiology: incidence

Central Thailand

The first year:

- 12.6/1,000 child-year, 35.8 % of all LRI

The second year:

- 5.8/1,000 child-year, 17.5 % of all LRI

Epidemiology: seasonality

- Seasonal outbreaks throughout the world*
 - **Northern hemisphere:** November to April
(a peak in January or February)
 - **Southern hemisphere:** May to September
(a peak in May, June or July)
 - **Tropical climates:** the rainy season (no peak)
- Thailand**
 - Rainy season, Peak August or September

*Am J Epidemiol 1968; 88:257-66.

**J Med Assoc Thai 2002;85(4):S1167-75.