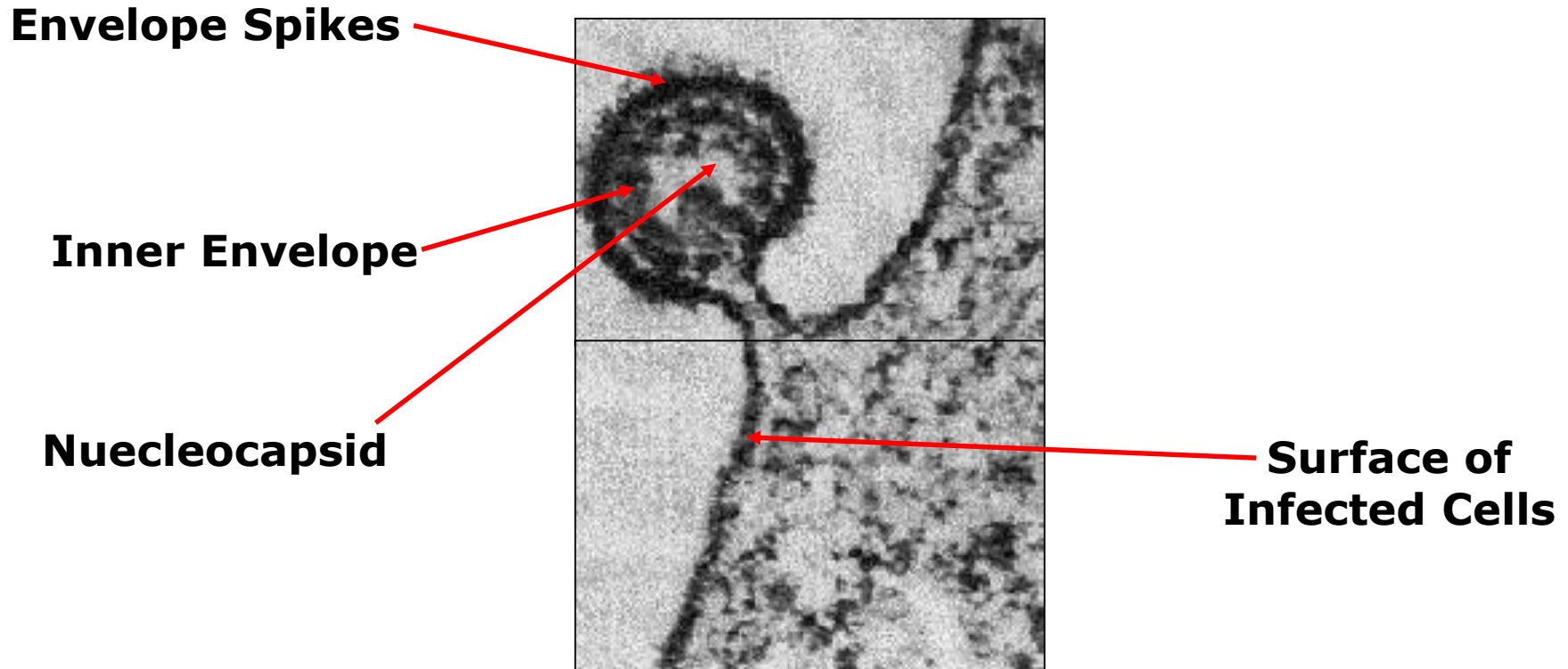


Respiratory Syncytial Virus and Bronchiolitis

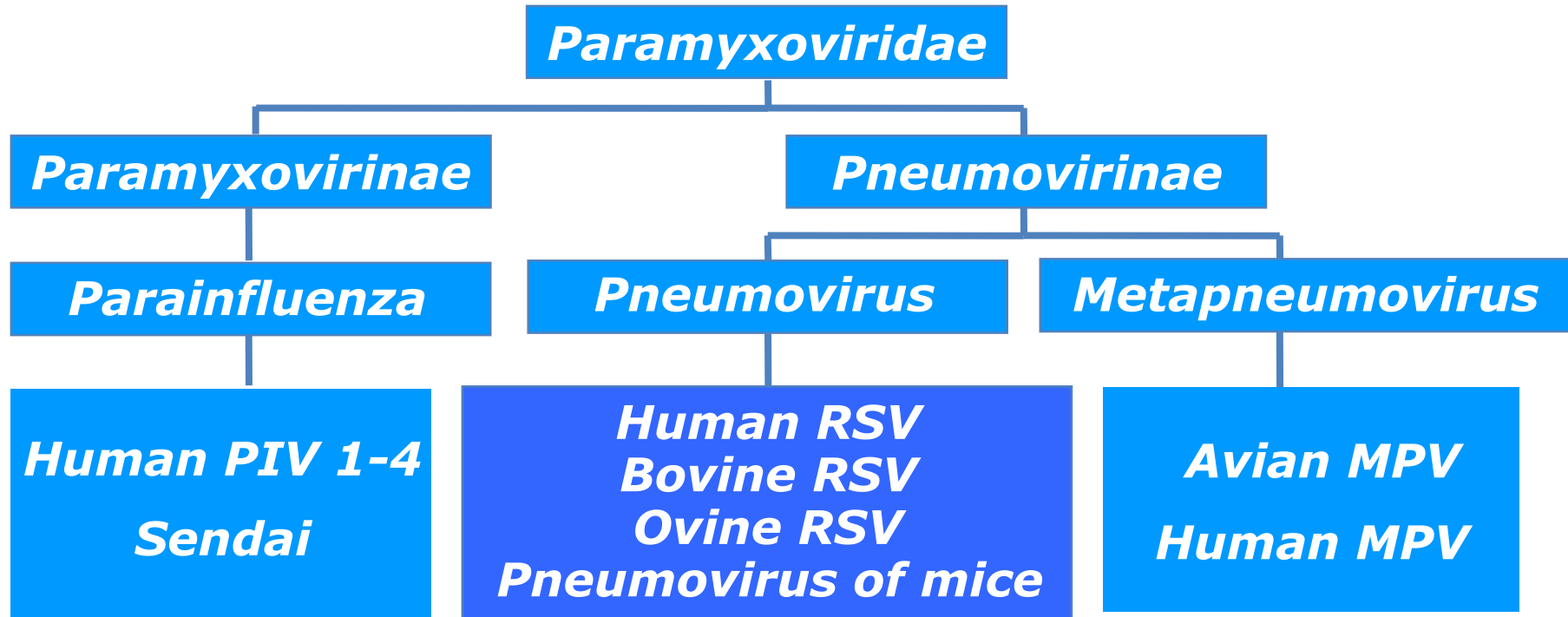
Giovanni Piedimonte, M.D.
Miriam K. Perez, M.D.

Respiratory Syncytial Virus

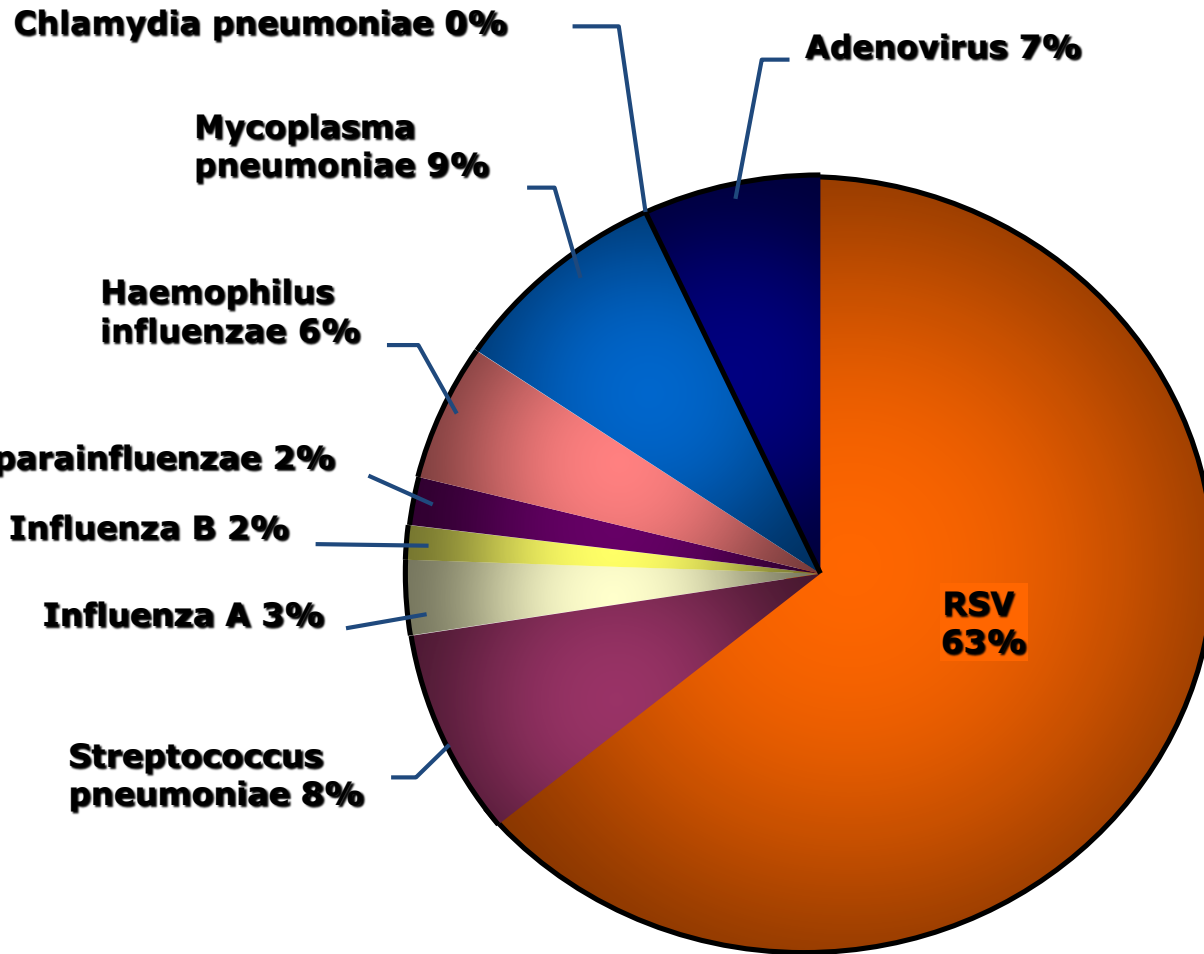


Electron photomicrograph of budding virion
(Adapted from: Peter Collins, 1989; *Fields Virology* 2nd Edition, 1990).

Paramyxoviridae



RSV: The Most Common Respiratory Pathogen in Children Worldwide



RSV accounts for:

- >60% of ARIs during entire respiratory season
- 90% of ARIs at peak of respiratory season
- 80% of ARIs in infants <1 year old during entire respiratory season

ARI = acute respiratory infection.

Celebrating
35 Years



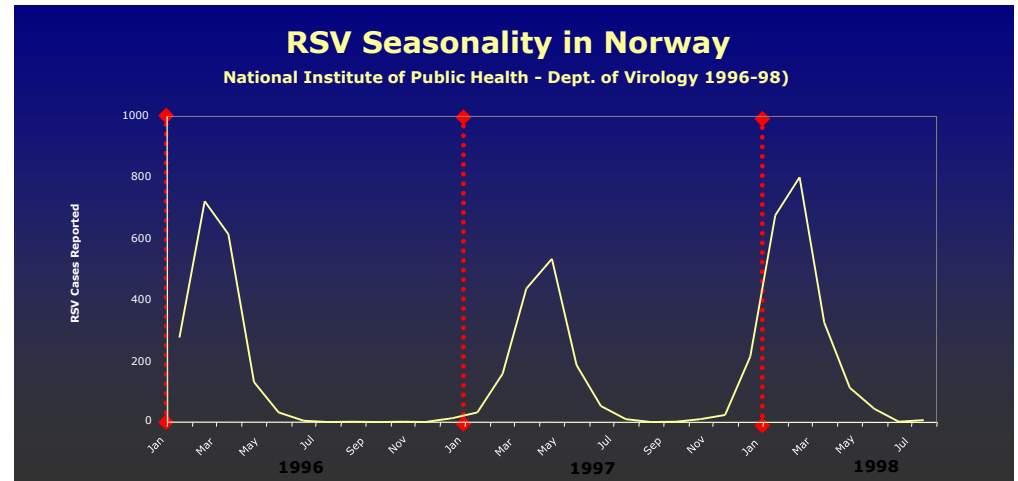
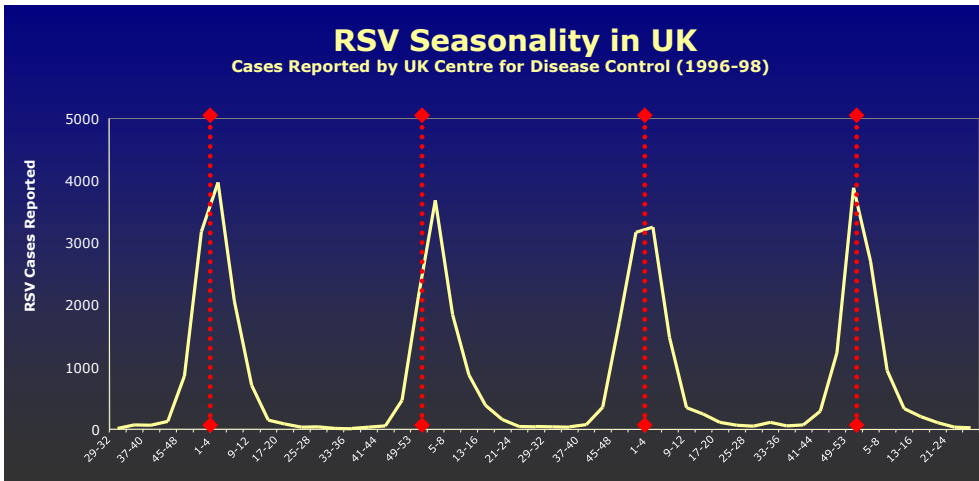
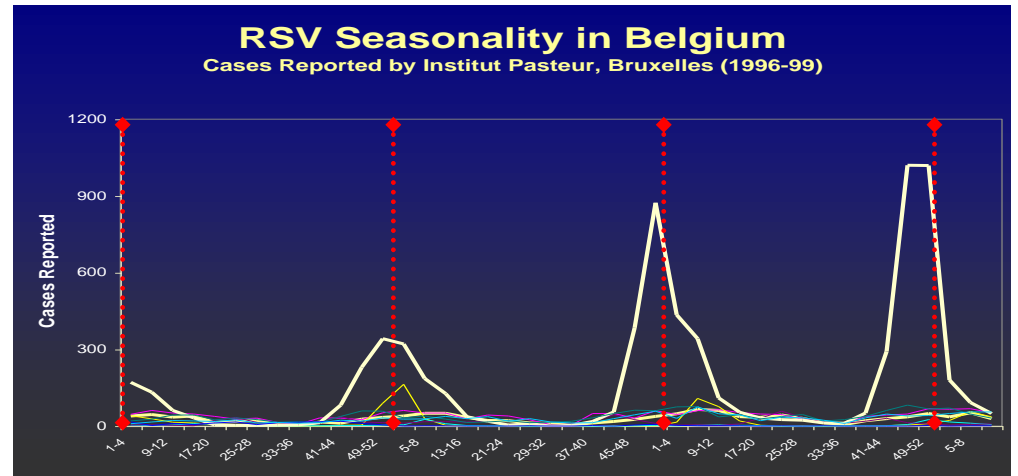
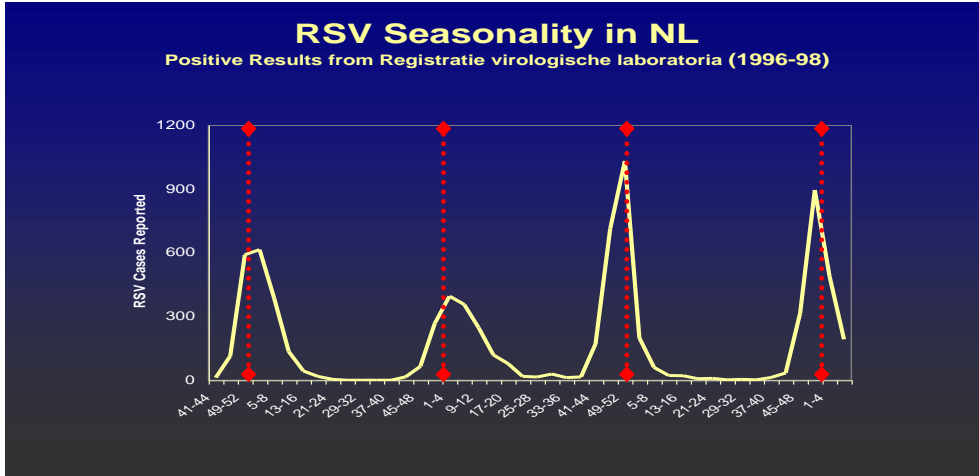
Pediatrics in Review

An Official Journal of the American Academy of Pediatrics

Piedimonte & Perez, PIR 2014



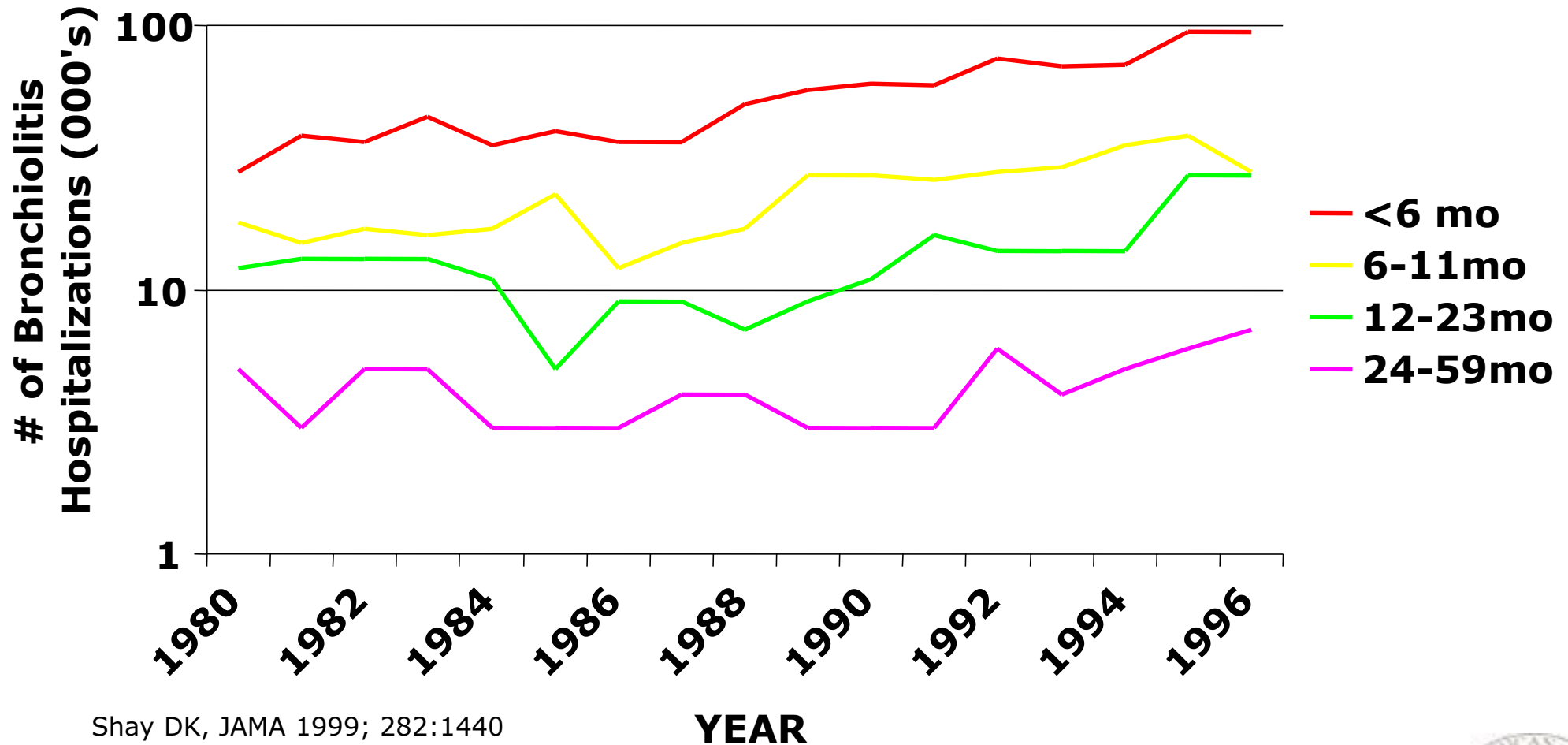
Global Seasonality of RSV



Celebrating 35 Years



Annual Bronchiolitis Hospitalizations Among US Children



Shay DK, JAMA 1999; 282:1440

YEAR

Celebrating
35
Years

 **Pediatrics in Review**

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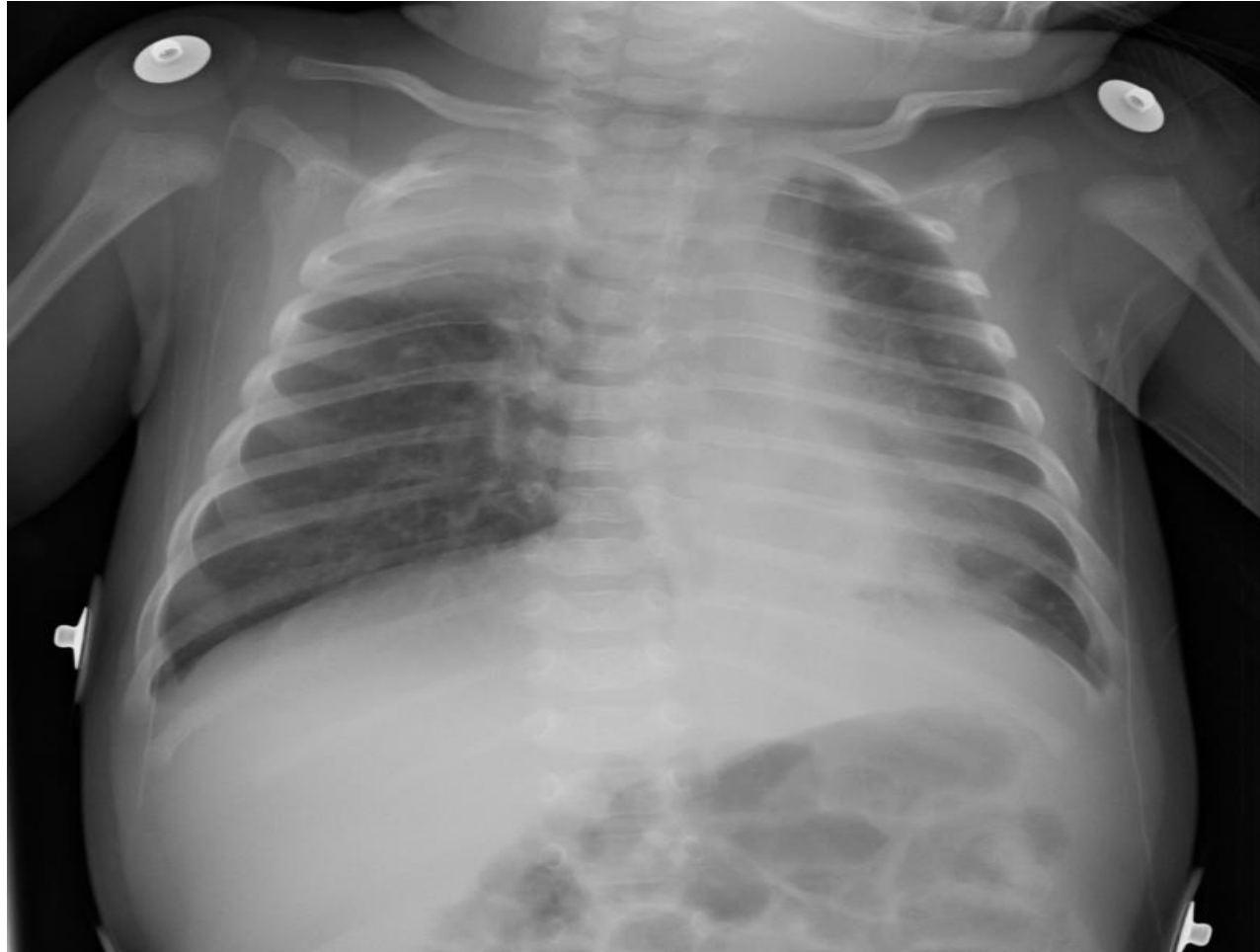
Piedimonte & Perez, PIR 2014



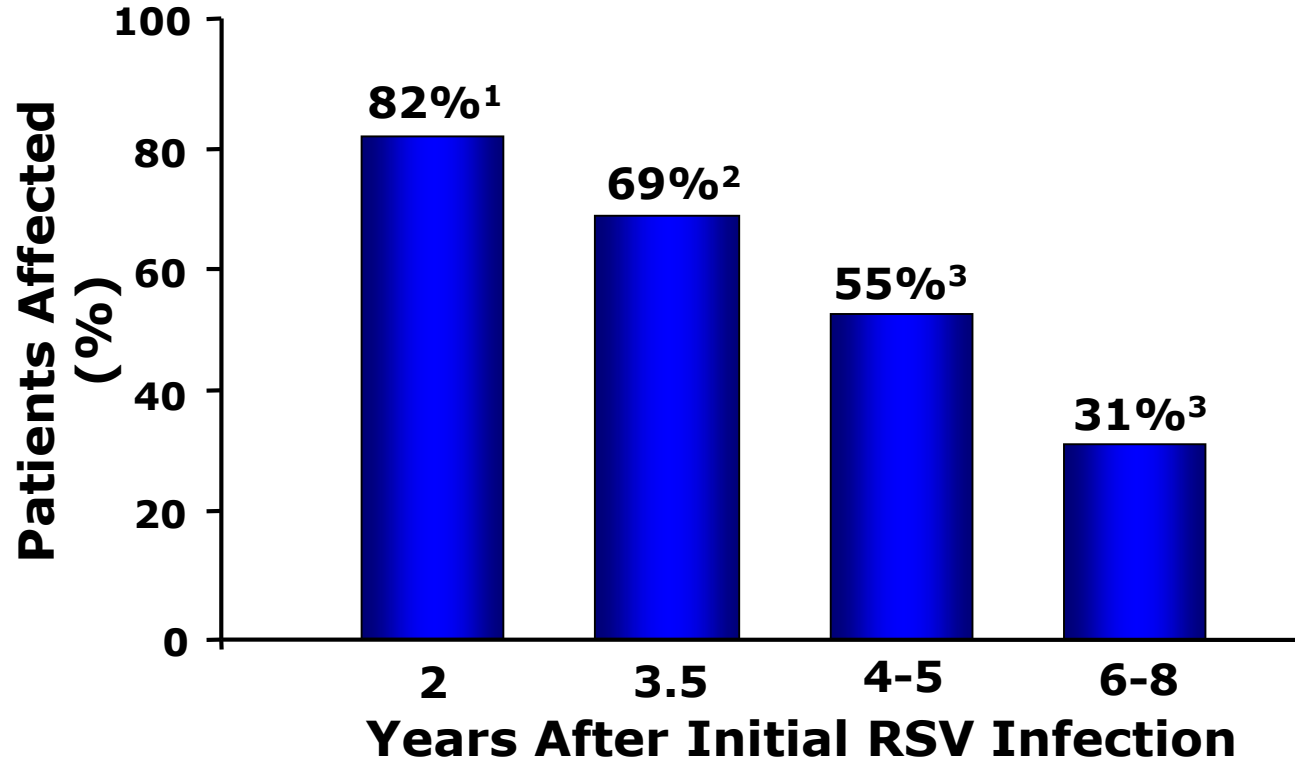
RSV Epidemiology

- **>120,000 annual hospitalizations in US**
- **Peak incidence of severe illness 2-3 months**
- **Illness severity related to:**
 - **Age <12 weeks**
 - **Absence of breastfeeding**
 - **History of prematurity**
 - **Underlying heart or lung disease**
 - **Immune deficit**

RSV: Radiologic Findings



Time Course of Post-RSV Recurrent Respiratory Symptoms



1. Henry RL et al. *Arch Dis Child* 1983; 58:713-716.
2. Webb MS et al. *Arch Dis Child* 1985; 60:1064-1067.
3. Hall CB et al. *J Pediatr* 1984;105:358-364.

Celebrating
35
Years



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Current Bronchiolitis Management

