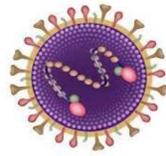


Respiratory Syncytial Virus



What is RSV?

Respiratory syncytial virus



- Enveloped single-strand RNA pneumovirus within the *Paramyxoviridae* family¹
 - 2 main subgroups: A/B – antigenically related
- In temperate climates, annual epidemics occur during winter²
- Circulation overlaps with seasonal influenza²

Most common cause of ALRI in children <5 years, and a major cause of ALRI-associated hospitalisation³

- In children <5 years there were an estimated:



33.1 million annual case of RSV-associated ALRI³

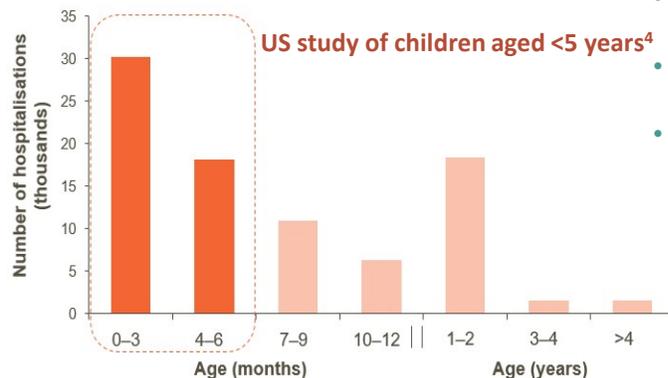


3.2 million RSV-associated ALRI requiring hospitalisation (of which 1.4 million ~45% in children < 6 months of age)³

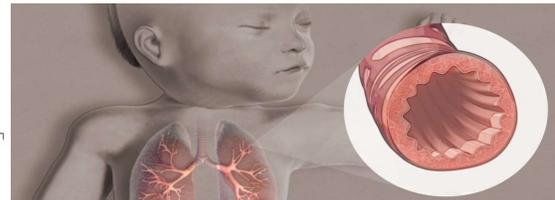


94,600–149,400 deaths due to RSV-associated ALRI³

Who is most at risk of RSV?



- Almost all children will have experienced an RSV infection by 2 years of age⁵
- Very young infants have the greatest risk of severe illness caused by RSV
- The highest priority target population is the RSV-naïve child⁶



No specific treatment⁵ or currently approved vaccine¹

Treatment of RSV infection in children is primarily **limited to supportive care**: supplemental oxygen and fluid replacement⁷

Passive immunization through maternal vaccination could potentially prevent RSV disease after birth, by protecting vulnerable infants.⁸

“The development of effective new vaccines ... to tackle RSV have the potential to make major contributions to reducing severe disease and deaths from RSV in children globally”⁹

In children < 5 years among 72 GAVI (Global Vaccine Alliance)-eligible countries, mostly low-income and lower-middle-income and, applying a 3% discount rate (per WHO guidelines)⁸

- Treatment costs account for a total 611 million USD
- Disability-adjusted life years (DALYs) for 1.2 million

More than one third of the RSV-associated disease burden occurs **in the first year of life**.⁸

Maternal vaccination could, in those countries and for children < 1y:⁸

- Prevent 1.2 million cases, 104 thousand hospital admissions and 3 thousand deaths
- Avert 98 thousand discounted DALYs and 186 million USD



RSV GRACE Study



What is GRACE study?

- **Phase 3 Global** Clinical study
- Approximately 10,000 pregnant women
- Double-blind study
- **Single** dose administered intramuscularly
- Robust safety data is available from prior studies

A = antibody



What is the Purpose of the study?

- Evaluate the ability of the vaccine in preventing medically assessed RSV associated Lower Respiratory Tract Illnesses (LRTIs) in infants born to vaccinated mothers.
- Evaluate the safety and immunogenicity of the investigational RSV Maternal vaccine both in vaccinated mothers and in their corresponding infant.

Who is eligible to take participate in the study?

Inclusion*

- ✓ Healthy woman aged 18 to 49 years
- ✓ In second or third trimester of pregnancy (between ~24 and 34 weeks of gestation)
- ✓ LMP date corroborated by first or second trimester ultrasound examination or certain LMP, corroborated by U/S performed after 28 weeks
- ✓ No significant congenital malformations, as assessed by fetal anomaly ultrasound scan conducted at or beyond 18 weeks of gestation.
- ✓ Willing to provide cord blood & infant followed-up after delivery for a period of 12 months

Exclusion*

- ✗ Significant complications in current pregnancy
- ✗ Known HIV infection
- ✗ Known or suspected HBV/ HCV infection
- ✗ Known or suspected in current pregnancy infection with Toxoplasma, Parvovirus B19, Syphilis, Zika, Rubella, Varicella, CMV or primary genital Herpes Simplex
- ✗ Known or suspected impairment of the immune system
- ✗ Administration of any vaccine from 29 days before study vaccine or planned administration through delivery (except for COVID vaccine and routine pregnancy vaccines)

*Note: other eligibility criteria apply



Help Us Help You

- Before the Tdap vaccine was used and approved in pregnancy, neonatal intensive care units (NICUs) had a high rate of admissions for whooping cough. Now that most women are vaccinated with the Tdap vaccine in their 3rd trimester, there has been a significant decrease of whooping cough infections in infants. Today instead of whooping cough, **RSV** has become a prevalent cause of infants in the NICU.
- Together, we can learn more about the potential to help prevent RSV disease among babies.
- The Future is in Your Hands



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