

Whoop! There It Is—Again.

Whooping Cough on the Rise.

PODCAST 42

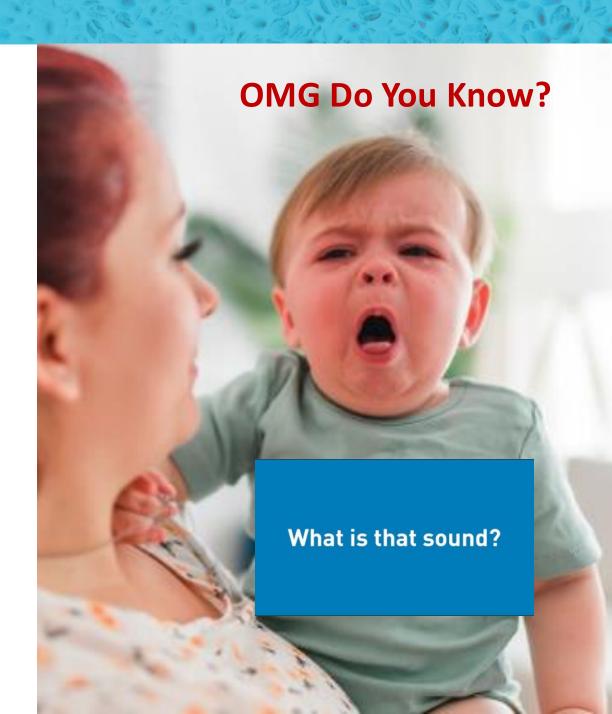


Whooping Cough, Pertussis: The Cough That Named Itself

Whooping cough is a vaccine-preventable respiratory illness caused by *Bordetella pertussis*.

- Extremely contagious and hallmarked by "whoop" or gasping air sound after cough
- Can be severe in infants and immunocompromised adults, lasting weeks to months
- Early antibiotic treatment may improve outcomes
- Delayed treatment can increase morbidity and mortality in at-risk populations

Would you recognize whooping cough if you heard it?



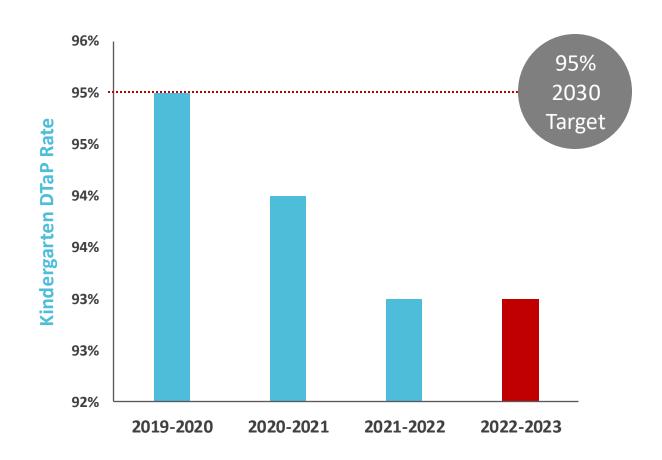
Childhood Pertussis Immunization Rates Are Declining

National childhood vaccination rates (DTaP, MMR, polio, VAR) have been declining since the pandemic.

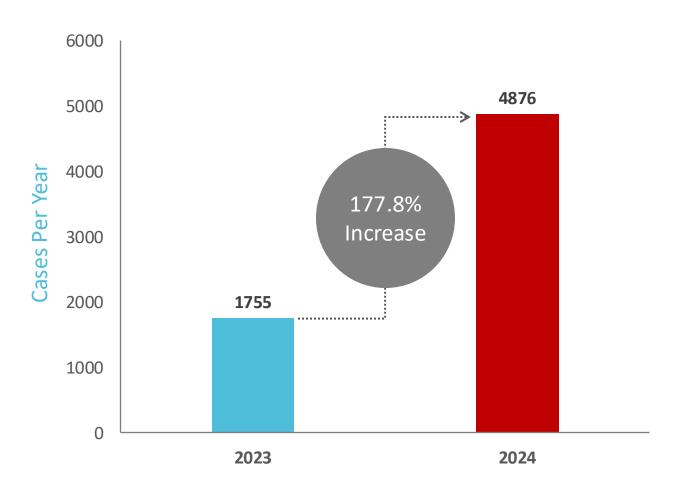
- Increased exemptions
- Misinformation and hesitancy
- Other barriers to vaccinations

Pertussis vaccine recommendations

- Infants and children ≤ 6 years: 5 dose series of DTaP
- Pregnant adults: Tdap at 27-36 weeks gestation
- Children 7+ and adults: Tdap every 10 years



U.S. Whooping Cough Outbreaks Increased in 2024





Symptoms and Stages

Early symptoms: Stage 1 Catarrhal Symptoms May last 1 to 2 weeks

- Slight fever
- Mild or occasional coughing
- Runny nose
- Pause in breathing in babies



Later symptoms: Stage 2 Paroxysmal Stage Last from 1 to 6 weeks up to 10 weeks

- Prolonged, repeated, or violent coughing episodes
- Whooping sound when inhaling
- Vomiting and exhaustion after coughing fits (called paroxysms)



Recovery: Stage 3 Convalescent Stage Lasts about 2 to 3 weeks

- Recovery is gradual
- Coughing lessens but fits of coughing may return
- Susceptible to other respiratory infections for many months



Risk Factors

Age and underlying medical conditions may increase risk for severe cases of whooping cough



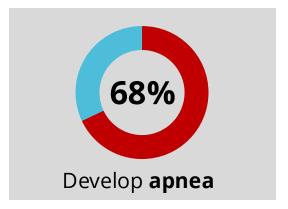
- Unvaccinated or incompletely vaccinated have higher risk for severe complications and death
- One third need treatment in a hospital
- **Hospitalization** is most common in infants younger than 6 months

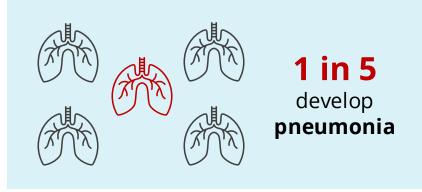


- Some conditions that may be worsened by whooping cough include, but are not limited:
 - Immunocompromising conditions
 - Moderate to severe medically-treated asthma

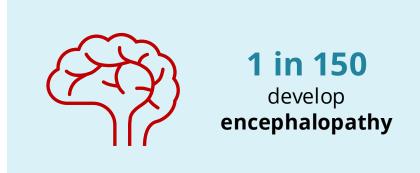
Infant Complications of Pertussis













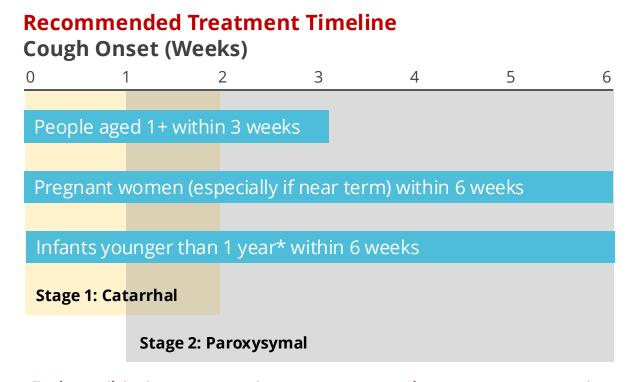
Pertussis Treatment Recommendations

Recommended antibiotics for treatment or postexposure prophylaxis

- Macrolides* (azithromycin, clarithromycin, erythromycin)
- Trimethoprim-sulfamethoxasole

Treatment recommendations

- With positive pertussis test
- Before test with suggestive history, high-risk, or contact with high-risk individual
- Postexposure prophylaxis for high-risk contacts



Early antibiotic treatment is necessary to reduce symptom severity. Late antibiotics will not improve course or transmissibility.

^{*} Macrolides should be used with caution in infants less than 1 month. An association between oral macrolides and infantile hypertrophic pyloric stenosis has been reported. Azithromycin remains first line treatment for very young infants as the risk of pertussis complications outweighs the risk of stenosis. Trimethoprim-sulfamethoxazole is an alternative to macrolides in infants > 2 months.



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