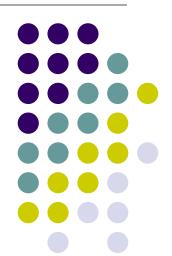
Measles: Vaccinate to Eradicate

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Vaccines



- Vaccines are one the most important public health advance in the last century
- Children are routinely vaccinated for 16 different diseases in the US
- Childhood vaccines, after testing and approval by the FDA, are given according to schedules approved by the ACIP and AAP
- Vaccines, after licensing by the FDA, are monitored by the FDA and CDC according to "post licensure monitoring" guidelines





Recommended Immunizations for Children Birth Through 6 Years Old

	Birth	1 month	2 months	4 months	6 months	8 months	12 months	15 months	18 months	19-23 months	2-3 years	4-6 years
RSV	1 dose during RSV season					1 dose during RSV season for those at high risk						
НерВ	②	②										
RV			Ø	Ø	Ø							
DTaP			Ø		\bigcirc							Ø
Hib			Ø	Ø	Ø							
PCV			⊘	⊘	\bigcirc		V					
IPV			Ø	Ø	V							Ø
COVID-19					As recommended for age group							
Influenza					V			Yea	rly —			
MMR							V					Ø
Varicella												Ø
HepA							⊘ Do	se 2: 6 mo	nths after d	ose 1		

For more information, visit $\underline{\textbf{healthychildren.org/immunizationschedules}}.$



Measles





- Caused by a virus so there is no treatment
- Common symptoms are rash, fever, runny nose, red eyes
- Measles is one of the most contagious diseases
- If susceptible and exposed, 90% of people will become infected
- Someone with measles is generally contagious from 4 days before rash onset until 4 days after

Measles Morbidity



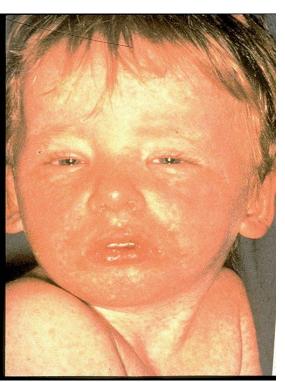
- 1 in 4 infected will be hospitalized
- 1 in 20 will develop pneumonia
- 1 in 1000 will develop encephalitis
- 1-3 per 1000 will die.
- Prior to vaccine, everyone in U.S. was infected by age 15
- Each year 48,000 children were hospitalized, 7000 had seizures, 1000 had permanent brain damage, 450 died

When to Suspect Measles





- Fever over 101 F
- One of the 3 Cs
 - Cough
 - Coryza
 - Conjunctivitis
- Rash

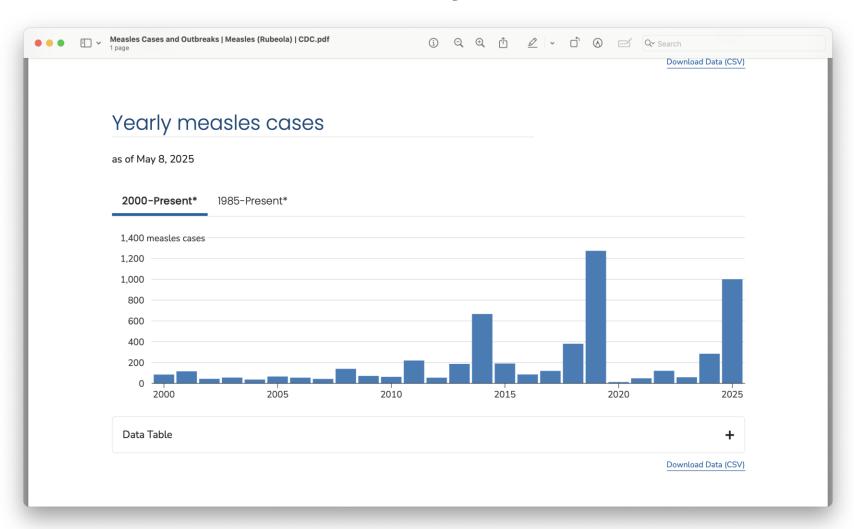


*Healthcare providers are required report all suspected cases to their local health department





Measles Incidence by Year



Measles



- 14 U.S. outbreaks to date in 2025, involving 31 states
- The largest current outbreak is in West Texas. Total cases so far this year- 1,024 with 13% hospitalized (23% of cases 5 yrs and under) and 3 confirmed deaths
- In Kentucky there have been 2 confirmed cases in 2025

Vaccine Concerns



- Increasing numbers of parents who are refusing vaccinations according to the ACIP/AAP recommended schedules
- A national survey done in 2009 and published in <u>Pediatrics</u> in 2010 showed that 11.5% of responding parents refused at least one vaccine for their children

Vaccine Facts





- Children are exposed to far fewer antigens today with more vaccines than they previously were with fewer vaccines
- Nobel scientists have determined that humans can produce about 10 billion different antibodies
- Vaccines are only accessing a miniscule portion of a baby's immune system

Vaccination



- Measles can be prevented through vaccination
- Measles vaccine schedule is typically 12-15 months and 4-6 years
- The vaccine is safe and effective
- Everyone should have 2 doses of measles vaccine unless they have medical confirmation of measles or laboratory confirmation of immunity, or they were born before 1957
- Measles vaccine introduced in the 1960s

Vaccination in KY



- The 2024-2025 assessment of kindergarten vaccines has dropped to 86.9%
- 7th and 11th graders remained stable
- Rates of religious and medical exemptions have increased 2.1%
- CDC has issued a Level1Travel Advisory for internation travel that all travelers should be fully vaccinated for MMR
- Measles Cabinet for Health and Family Services

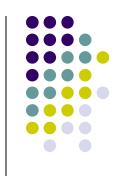
References



- Advisory Committee on Immunization Practices
- American Academy of Pediatrics
- Centers for Disease Control
- Carey Dodds, MD, Board certified pediatrician
- Department of Public Health (Dr. Kathleen Winters, Epidemiologist)

Questions





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