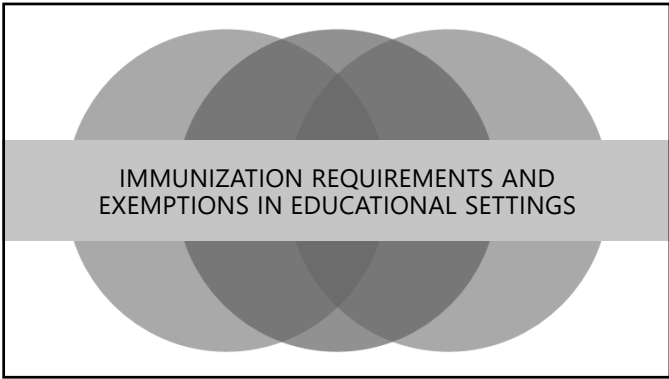
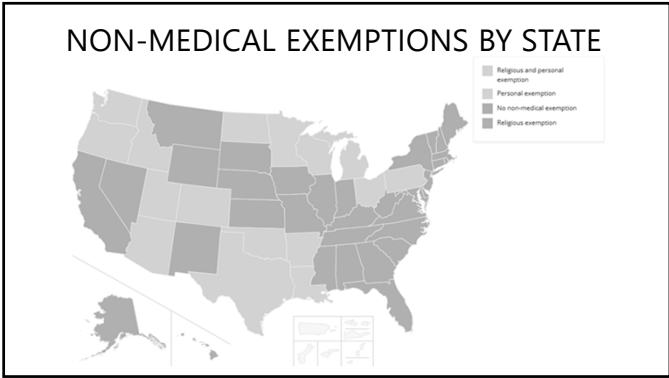


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3

Child Care Facility Immunization Requirements							
Vaccine Type	Minimum Number of Doses Required Per Age						
	2-3 Months	4-5 Months	6-7 Months	8-11 Months	12-17 Months	18-24 Months	2-5* Years
MMR (Measles-Mumps-Rubella)					1	1	1
Varicella (Chickenpox)					1	1	1
HAV (Hepatitis A)					1	2	
Rotavirus ^a	1	2	2 or 3 ^a				
Hib ^a (Haemophilus influenzae type b)	1	2	2 or 3	2 or 3	3 or 4	3 or 4	3 or 4
HBV (Hepatitis B)	1	2	3	3	3	3	3
IPV (Polio)	1	2	3	3	3	3	3
PCV ^a (Pneumococcal)	1	2	3	3	4	4	4
DTaP/DT (Diphtheria-Tetanus-Pertussis)	1	2	3	3	4	4	4

Exemptions available: religious, personal belief, medical, history of disease

4

School Immunization Requirements			
Vaccine Type	Number of Required Doses		
	Kindergarten-6	Grades 7-10	Grade 11-12
DTaP/DTP/DT/Tdap/Td ^a	5	5	5
Hepatitis B	3	3	3
IPV/OPV ^a	4	4	4
MMR	2	2	2
Varicella (Chickenpox) ^a	2	2	2
Meningococcal ^b	0	1	2
Tdap ^c	0	1	1

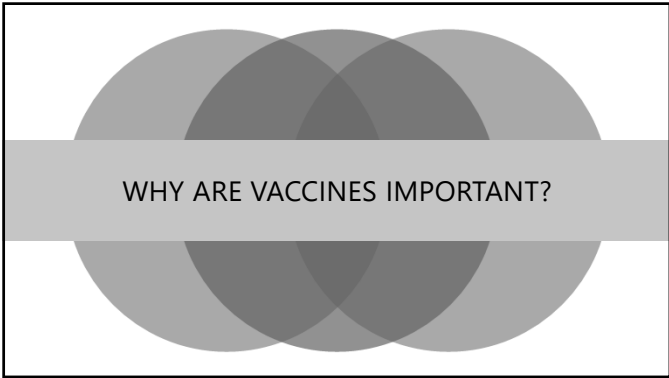
Exemptions available: religious, personal belief, medical, history of disease

5

UNIVERSITY SYSTEM
(NDUS) REQUIREMENTS – POLICY AND PROCEDURE

- MMR required for all
- MCV-4 required for students under 21yo
- TB testing required
 - Vaccination is not required, since BCG is not licensed for use, in the US. Many foreign-born individuals will have had this vaccine.
- Exemptions are available

6



7

MEASLES CASES AND OUTCOMES

U.S. Cases in 2025

Total cases
1356

Age

Under 5 years: 386 (28%)
5-19 years: 501 (37%)
20+ years: 462 (34%)
Age unknown: 7 (1%)

Vaccination Status

Unvaccinated or Unknown: 92%
One MMR dose: 4%
Two MMR doses: 4%

U.S. Hospitalizations in 2025

13%

13% of cases hospitalized (171 of 1356).

Percent of Age Group Hospitalized

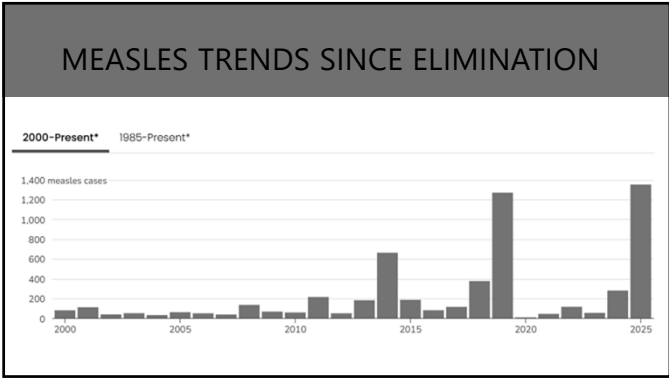
Under 5 years: 21% (82 of 386)
5-19 years: 8% (40 of 501)
20+ years: 11% (49 of 462)
Age unknown: 0% (0 of 7)

U.S. Deaths in 2025

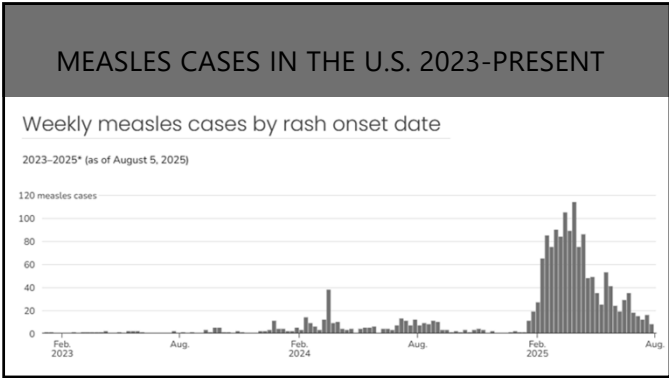
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There have been 3 confirmed deaths from measles.

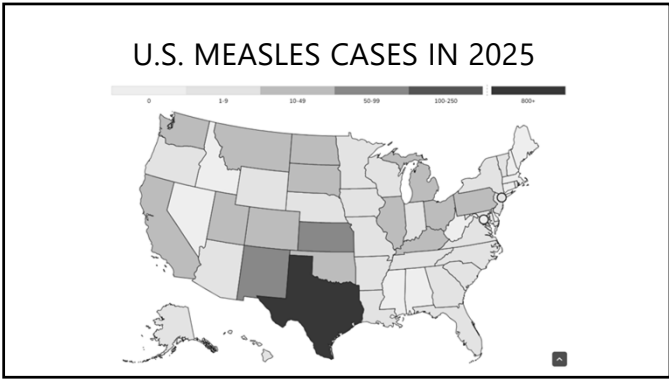
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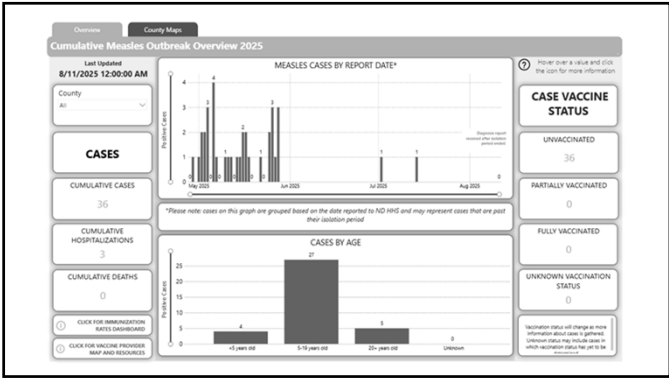
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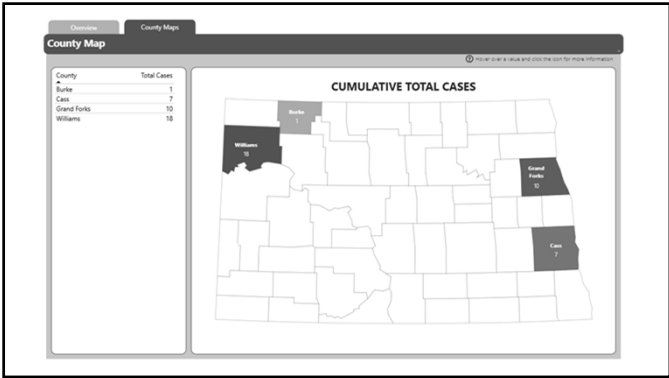
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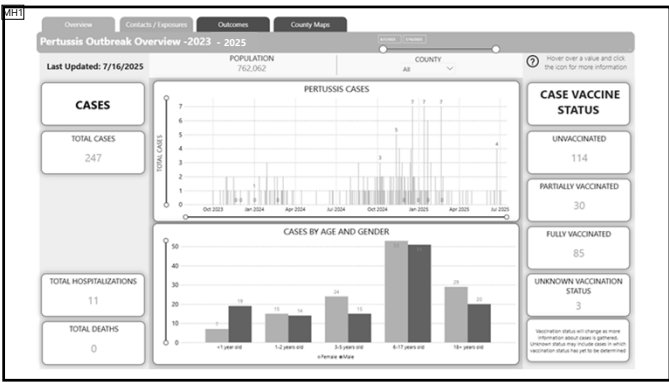
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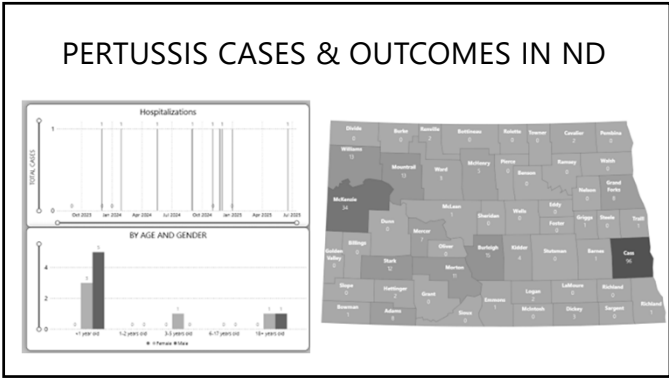
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14



15

Slide 14

MH1 Confusing that this is multiple years.

Howell, Molly A., 2025-08-11T15:26:12.264

DP1 0 That is intentional - not the confusion, but the long timeline to highlight how school is a driver for pertussis outbreaks.

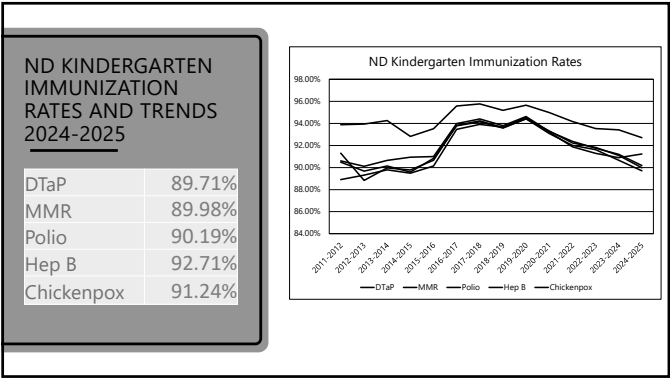
Pinnick, Danielle, 2025-08-11T19:23:55.712



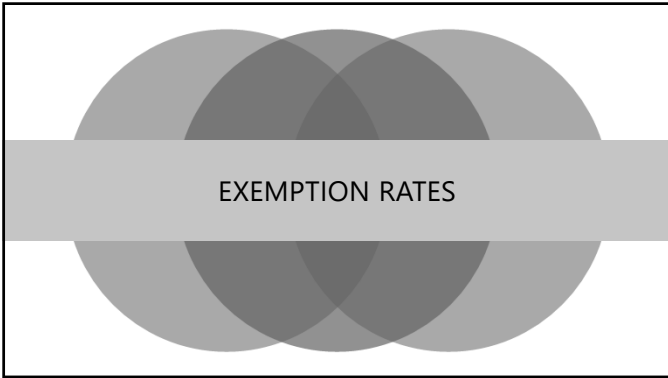
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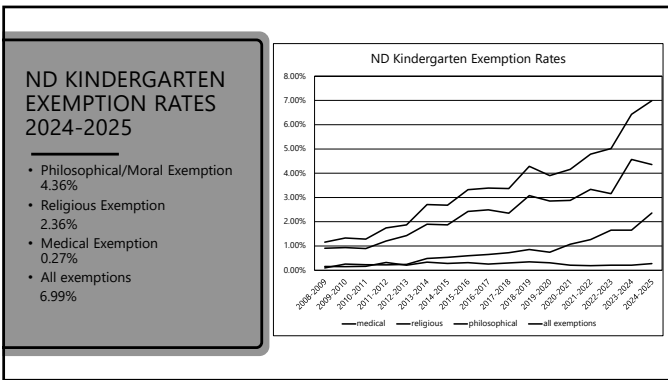
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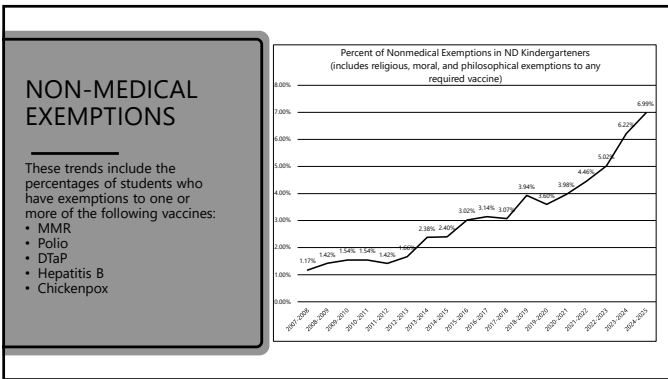
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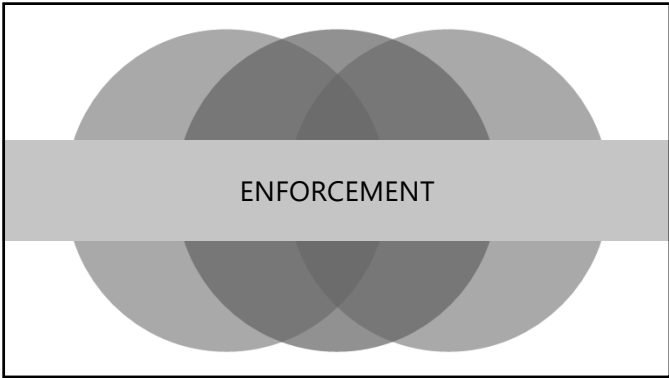
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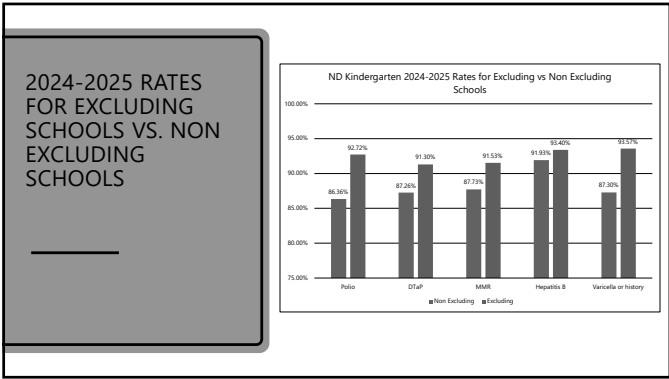
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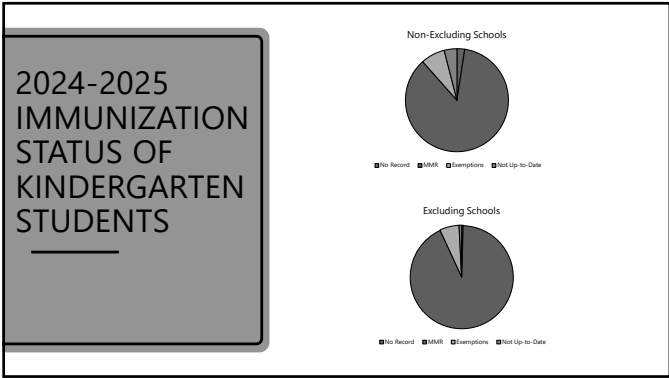
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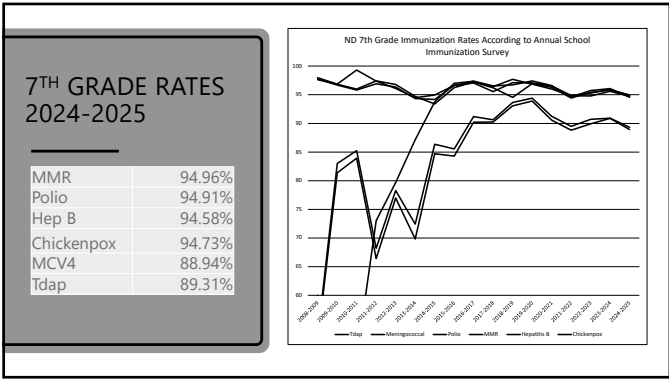
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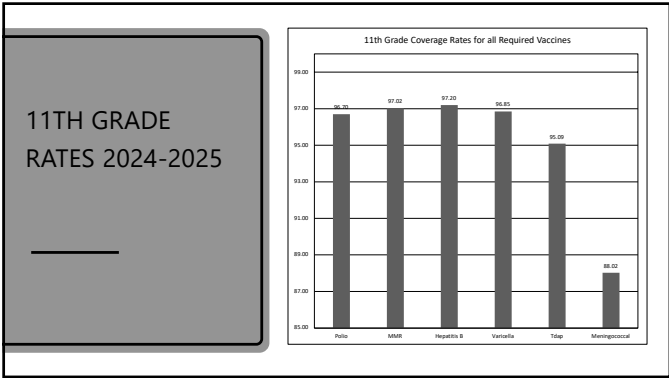
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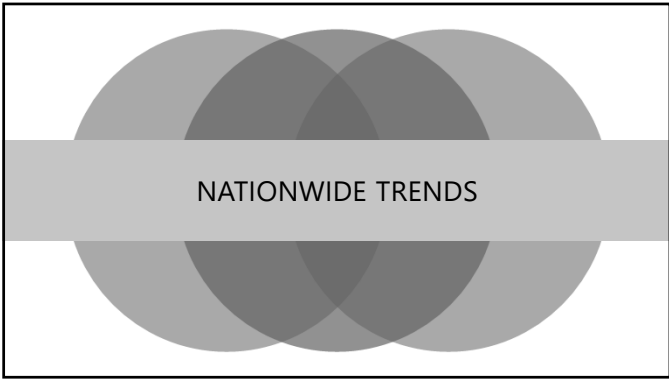
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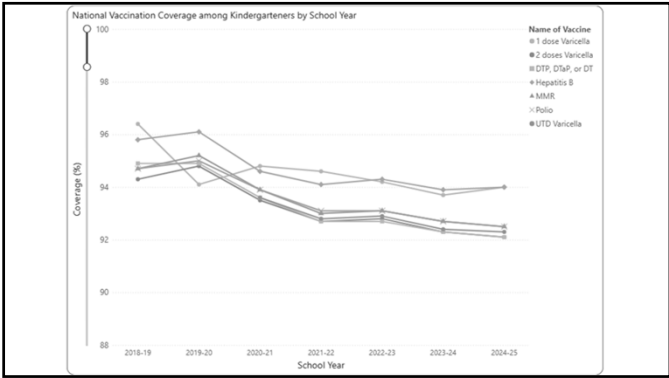
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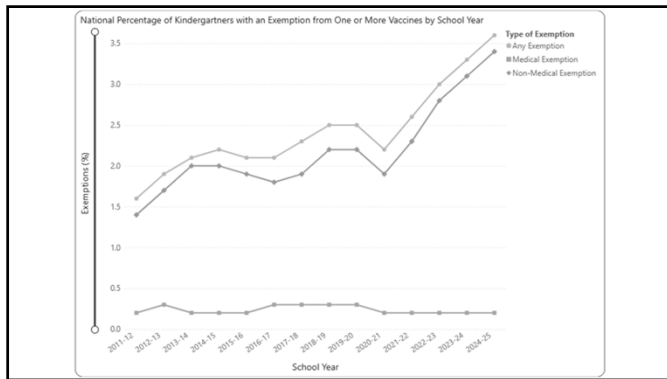
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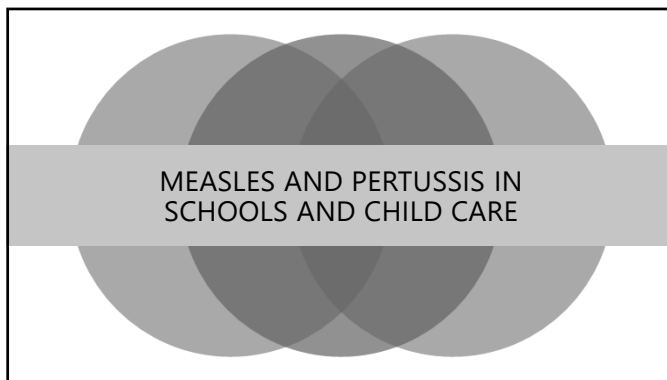
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30



31



32

PERTUSSIS: CASE AND CONTACT MANAGEMENT

- Index case receives antibiotics to shorten infectious period
 - If given after cough begins this will not shorten duration of illness or lessen symptoms
 - If a breakthrough infection (infection despite vaccination), symptoms may be more mild
- Index case must ISOLATE at home and be excluded from work, school, or daycare until they have been on antibiotics for FIVE DAYS
- All household contacts should receive antibiotics, regardless of vaccination status or symptoms
 - Household contacts with symptoms are considered probable cases and included in case count. Must also ISOLATE at home while on antibiotics or until 21 days has passed since start of cough.
- Close contacts should receive antibiotics if they are high risk or have exposure to high-risk people
 - Ex: infants, pregnant, NICU employee
 - Type of exposure may warrant antibiotic treatment for certain close contacts (i.e. sports team)

33

PERTUSSIS IN SCHOOL AND CHILD CARE

- Letters written by ND HHS are distributed to parents of close contacts via school or daycare provider to notify of exposure
- Close contacts are determined through an investigation of the nature of exposure
 - Ex: in a large daycare facility, a single "room" or group may be considered exposed if interaction with other groups is limited, whereas in a school where students all eat lunch together, it may be decided that a whole school should be notified.

34

MEASLES CASE AND CONTACT MANAGEMENT

- Index case is identified: through case investigation, all places this person has been in the four days before rash onset until four days after are considered exposure sites. The case must also ISOLATE at home until four days after the rash first appeared.
- School or child care setting: students who have received zero doses of MMR prior to exposure are EXCLUDED from school and asked to QUARANTINE for 21 days following exposure. *In Williams county, 188 students met this criteria and required exclusion from school. Staff were also considered exposed and excluded if they had not been vaccinated.*
- Household setting: household members are asked to quarantine starting 5 days after their first exposure to the case and until 21 days after their last exposure to the case.

35

MEASLES RESPONSE IN WILLISTON PUBLIC SCHOOLS



Lynn Duggan is the meeting director for the Williston Public School District in North Dakota, which has about 4,000 students. Duggan meeting with other school nurses from the district to discuss the response to the measles outbreak in the area.

36

POST-TEST

- Successfully complete the five-question post-test to receive your certificate for nursing credit using the link below:
https://ndhealth.co1.qualtrics.com/jfe/form/SV_5bBrp8HAYp8Qsm2
- Credit for this session will be available until September 9, 2025.
- This presentation will be posted to our website at:
www.hhs.nd.gov/immunizations

37

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38



THANK YOU

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39

13