

### School Nurse Bootcamp 2025 Communicable Disease Update

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## Agenda

- Intro to the IDPH Medical Services Division and Child Health Priorities
- Overview of Communicable Disease Control in Schools
- Spotlight on Diseases Prevented by School-Required Vaccines





# IDPH Medical Services Division and Child Health Priorities

#### **Medical Services Division**



The Medical Services Division (MSD) was established in July 2021 to provide IDPH consultative medical support.

## Medical Services Division Leadership Team Chief Medical Officer

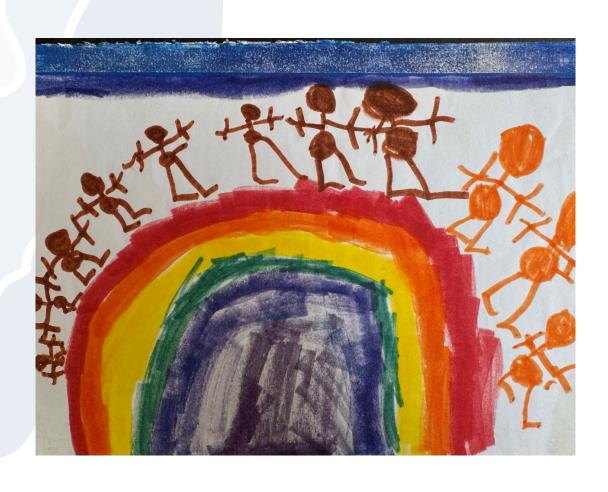
Arti Barnes, MD, MPH

Contact Us!





## Children's Agenda Goals



- Streamline, coordinate and improve current IDPH services for children.
- Recommend long-term opportunities to build a foundation for better child health outcomes.
- Rooted in IDPH's <u>Healthy</u> <u>Illinois 2028 State Health</u> <u>Improvement Plan</u>.



#### **Domains of Focus**

**Growing Bodies:** 

Improving Children's Physical Health

**Developing Minds:** 

Enhancing Children's Mental and Behavioral Health

#### **Connected Care:**

A Unified Vision for Health linking public health, community health, and health care systems

#### **Cross-Cutting Priorities**

Social drivers of health

Racial and health equity

Informed by essential public health data systems







### **Communicable Disease Control in Schools**

# School Nurses Are Critical in Preventing Communicable Diseases

- Public Health Promotion
  - Promote vaccinations
  - Communication and education
- Public Health Preparedness
  - Communicable disease response plans and policies
- Public Health Protection
  - Ensure vaccination of the school community
  - Disease control through case identification and management
- Liaison to public health departments and health care providers



- Schools are important public health partners as mandated reporters.
- Report cases to the local health department.





Illinois Department of Public Health

Effective 2/27/24



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## **Communicable Disease School Nurse Guidance**

| MIDDII                                 |   | About IDPH 🌘       | English >   |                     |          |
|--|---|--------------------|-------------|---------------------|----------|
| ILLINOIS DEPARTMENT OF PUBLIC HEALTH   |   |                    |             |                     | Search   |
| Mark Carachad Data 9: Challadia        | Tanina 9: Camina Danawa Cantan                                  | Citi               | Franks      |                     |          |
| Most Searched Data & Statistics        | Topics & Services Resource Center                               | Communications     | Events      |                     |          |
| Illinois Department of P > Topics & So | ervices > Diseases and Conditions > Infection                   | ous Diseases       |             |                     |          |
| Diseases & Conditions                  | <u> </u>  | Jala D'a           |             | C - l               | - I NI   |
| Alzheimer's Disease ▼                  | Communica   | able Dis           | sease       | Scho                | oi Nurse |
| Asthma ▼                               | Guidance  |                    |             |                     |          |
| Astrima                                | Download Communicab   | ole Disease School | Nurse Guida | nce                 |          |
| Cancer                                 |   |                    |             |                     |          |
| Chronic Diseases •                     | Download Communicab   | ole Disease School | Nurse Guida | nce (En Espa        | ñol)     |
| Diabetes ▼                             | Eye, Ear, Nose  | , Throat,          | and R       | espira <sup>·</sup> | tory     |
| Diseases A-Z List                      | Teach effective, handwashing,<br>Colds are caused by viruses; a |                    | , ,         | cough etiqu         | ette     |



## **Communicable Disease School Nurse Guidance**

Guidance table is organized by color-coded disease categories.

- Eye, Ear, Throat & Respiratory
- Gastrointestinal Illness
- Meningitis
- Skin Conditions and Rashes
- Animal Bites





## **Example: Conjunctivitis (Pink Eye)**

CDC

|           | Disease/<br>Illness   | Mode of Transmission   | Symptoms  | Incubation<br>Period                                     | Period of Communicability  | Criteria for Exclusion<br>from School*   | Reporting<br>Requirement   | Prevention & Control Measures  |
|-----------|---|--|---|--|--|--|--|--|
|           | Bronchiolitis, Bronchitis,<br>Common Cold, Croup, Ear<br>Infection, Pneumonia, Sinus<br>Infection and Most Sore<br>Throats (respiratory diseases<br>caused by many different<br>viruses and occasionally<br>bacteria) | Breathing in respiratory droplets containing the pathogen after an infected person exhales, sneezes, or coughs -Direct contact with respiratory secretions from an infected person -Touching a contaminated object then touching mouth, nose or eyes | Variable, including runny<br>nose, watery eyes,<br>fatique, coughing, and<br>sneezing. May or may<br>not have fever   | Variable   | Variable, often from<br>the day before<br>symptoms begin up to<br>5 days after onset   | No exclusion unless febrile or other symptoms meeting exclusion criteria are present   | May depend of etiology/organism Report unusual illness, clusters of cases above baseline for group and time of year, or increased/unusual severity of illness to the local health department | Teach effective, handwashing, good respiratory hygiene and cough etiquette. Colds are caused by viruses; antibiotics are not indicated.  |
| SPIRATORY | Conjunctivitis, Bacterial or<br>Viral (Pink eye)<br>http://www.cdc.gov/conjuncti<br>vitis/index.html  | Contact with an infected person's<br>skin, body fluid or though contact<br>with a contaminated surface and<br>then touching mucus<br>membranes/eyes  | Red eyes, usually with<br>some discharge or<br>crusting around eyes;<br>may be itchy, sensitive to<br>light, or watery<br>Bacterial: may have<br>yellow/greenish<br>discharge; may affect<br>one or both eyes<br>Allergic and chemical<br>conjunctivitis usually<br>affects both eyes | Bacterial:<br>Unknown.<br>Viral: Varies<br>with etiology | Bacterial: from onset of symptoms until after start of antibiotics, or as long as there is discharge form the eye Viral: variable, before symptoms appear and while symptoms are present (Allergic and chemical conjunctivitis is not contagious.) | Bacterial, Viral, or unknown etiology: Exclude if conjunctivitis is accompanied by symptoms of systemic illness or if the child is unable to keep hands away from eye.  Childcare rules: exclude if purulent drainage until after 24 hours of treatment. http://www.ilga.gov/commission/jcat/admincode/089/089004070G03100R.html | Not required to be<br>reported<br>May notify local health<br>department of large<br>clusters of cases or<br>cases with unusual<br>severity of illness  | For all diseases:  Good handwashing and hygiene practices; proper disposal of soiled tissues; avoid sharing linens; proper disinfection of surfaces and toys; cough into elbow or clothing when tissues unavailable. |



### **Hand Foot Mouth Disease**



- Typically coxsackie virus
- Most common in children under 5 years
- Transmission: Respiratory droplets, saliva, blister fluid, fecal-oral
- Most contagious during the first week
- Exclusion: Fever, child cannot maintain hygiene (e.g., excessive drooling) or avoid contact with others
- Prevention: Hand hygiene, clean/disinfect surfaces, no sharing of food/utensils/cups
- Reporting: Individual cases are not reportable
  - Clusters of 10 linked cases within a 10-day period should be reported to the local health department.



## **Strep Throat**



CDC

- Transmission: Respiratory droplets, contact
- Exclusion: Until fever-free for 24 hours AND on appropriate antibiotics for at least 12 hours
  - During outbreaks or recurrent infection, should be on antibiotics for at least 24 hours.
- Prevention: Hand hygiene, respiratory hygiene, no sharing of food/drinks/utensils/cups
- Reporting: Invasive disease is reportable (will likely occur through hospital)
  - Clusters of 10 linked cases within a 10-day period should be reported to the local health department.



### **Norovirus**



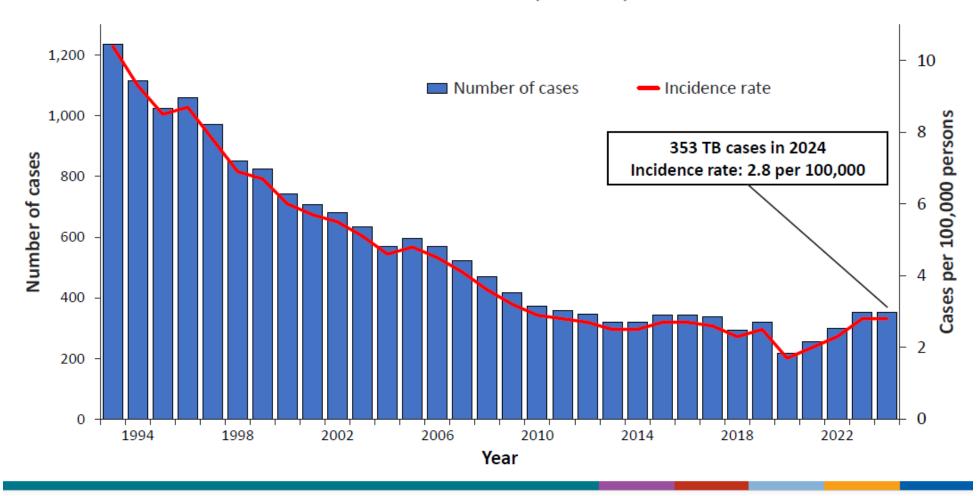
CDC

- Transmission: Fecal-oral, contaminated food/water, contact
- Exclusion: Until diarrhea, vomiting, and fever have ceased for 24 hours
  - Exclude from food handling for 48 hours after recovery
- Prevention: Hand washing (hand sanitizer not very effective), clean/disinfect surfaces
  - Ensure staff cleaning vomitus or stool wear a mask as aerosolization of the virus can occur.
- Reporting: Individual cases are not reportable
  - Report clusters of cases to the local health department.



### **Tuberculosis**

TB Cases and Incidence Rates, Illinois, 1993–2024









CDC

- Transmission: Airborne, close contact for several hours
- Individuals with latent TB are not contagious.
- Exclusion: Return-to-school for individuals with active TB will be determined by the local health department.
  - No exclusion for latent TB or asymptomatic, exposed individuals.
- Reporting: Within 7 days to the local health department.



# Respiratory Viruses: Influenza, COVID-19, RSV



- Exclusion: Until fever-free without use of fever-reducing medication for 24 hours and symptoms are improving.
- When returning to school/activities, for the next 5 days, wear a well-fitted mask.
- Prevention: *Immunization*, respiratory hygiene, hand hygiene, masking if symptoms or recent infection, ventilation.
- Report to the local health department if school operations are being affected or spike in absenteeism.



## **IDPH Respiratory Illness Dashboard**

A Snapshot of Respiratory Surveillance in Illinois

from July 06, 2025 to July 12, 2025







# Diseases Prevented by School-Required Vaccines

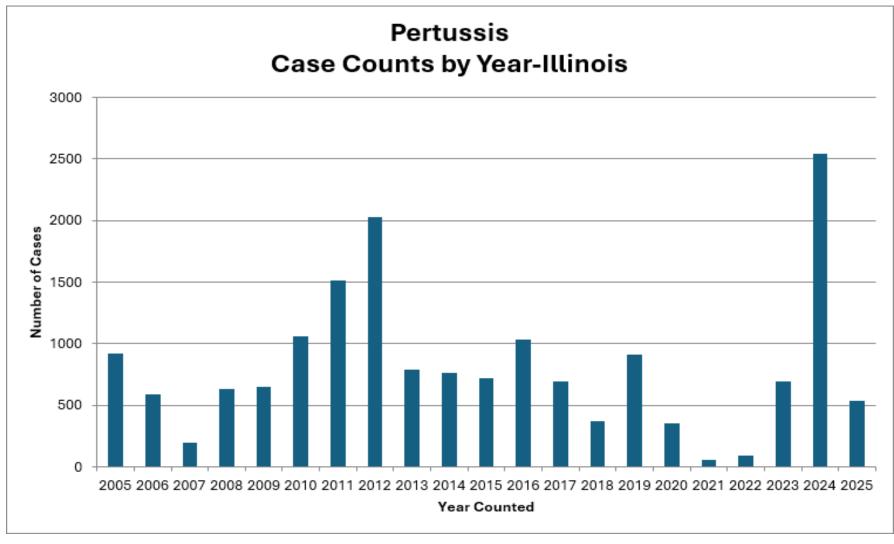
## **Immunization Requirements**





Minimum Immunization Requirements for Children Enrolling or Entering a Child Care Facility or School in Illinois, 2025-2026

### **Pertussis**

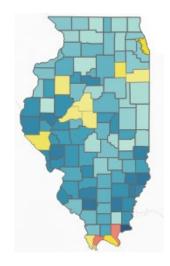




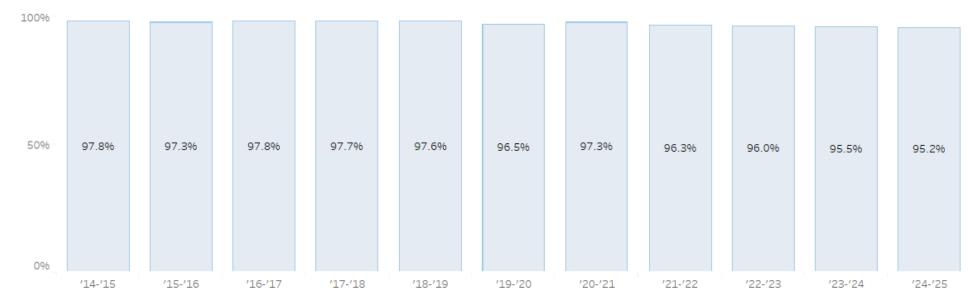
2024 and 2025 data are provisional.

### **Illinois DTaP Vaccination Rate**

 Vaccination rate has been trending down since '17-'18 but remains above the goal of 95%.



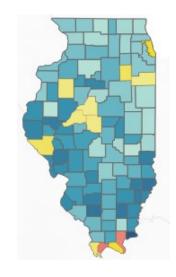
Protection (%) Trends
DTP/DTaP/TD | County = All | District(s) = All | School(s) = All



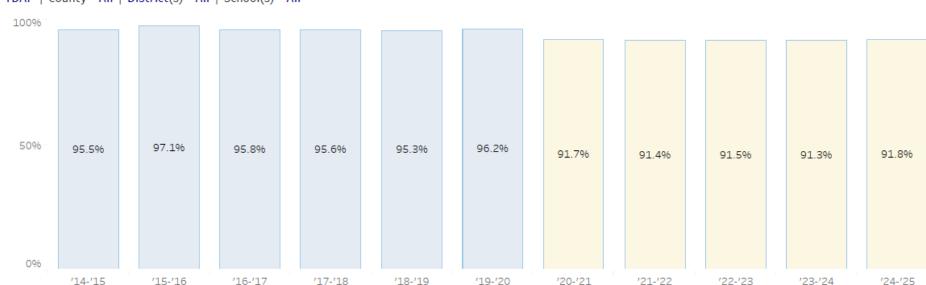


### **Illinois Tdap Vaccination Rate**

• Vaccination rate increased in '24-'25 but remains below the goal of 95% or higher.







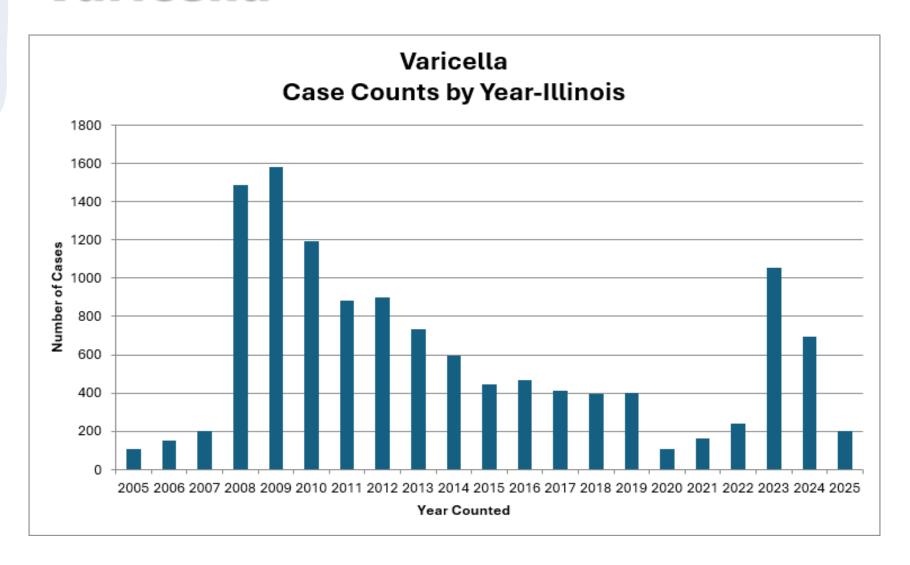


## If there is a pertussis case at school

- Report suspected or confirmed cases to the <u>local health</u> <u>department</u>.
- Cases should be excluded from school until they have completed 5 days of appropriate antibiotic therapy, or if not treated, for 21 days from onset of symptoms.
  - Verify cases have completed antibiotic therapy before return to school.
- Contacts do not have to be excluded unless they develop symptoms.
  - Post-exposure prophylaxis is recommended in household contacts, people at high risk of severe disease, those who will have contact with people who are at high risk of severe disease
- Communicate and educate the school community about pertussis, including the importance of vaccination.
- Monitor for and report any new cases.



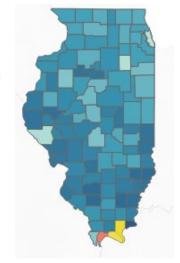
### **Varicella**



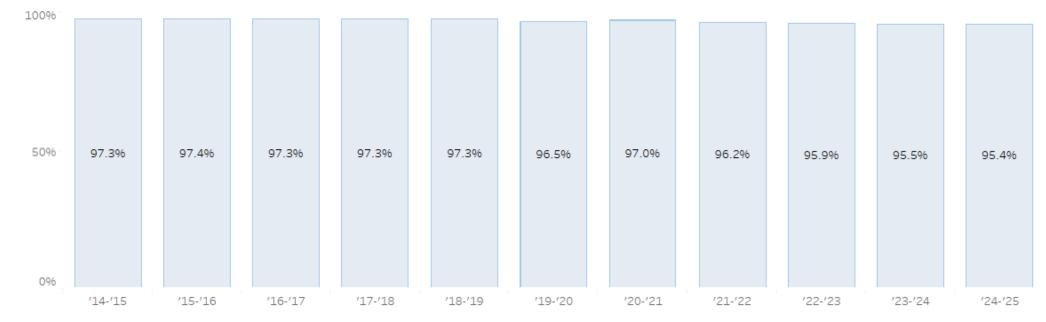


### **Illinois Varicella Vaccination Rate**

- Vaccination rate in '24-'25 was overall stable from the prior school year.
- Steady decline starting in '17-'18 but remains above goal of 90% or higher.



Protection (%) Trends
Chickenpox/Varicella | County = All | District(s) = All | School(s) = All





### If there is a varicella case at school

- Report suspected to cases to the <u>local health department</u>.
- Cases should be excluded for at least 5 days AND until all lesions are crusted.
  - If the rash is atypical (non-vesicular), they must be 24 hours without fever and no new lesions appearing.
- Contacts do not have to be excluded unless they develop symptoms.
- Communicate and educate the school community about varicella, including the importance of vaccination.
- Monitor for and report any new cases.
  - Outbreaks are defined as 3 or more linked cases.



### What is Measles?

- Highly contagious virus, airborne spread.
  - Can stay in the air up to 2 hours after an infected person has left the room.
- Initial symptoms start around 10 days after exposure.
  - High fever
  - Cough
  - Runny nose
  - Red, watery eyes
- Measles rash appears about four days after the start of symptoms.
  - Starts at the hairline and spreads downward.
- Contagious four days before through four days after the start of the rash.



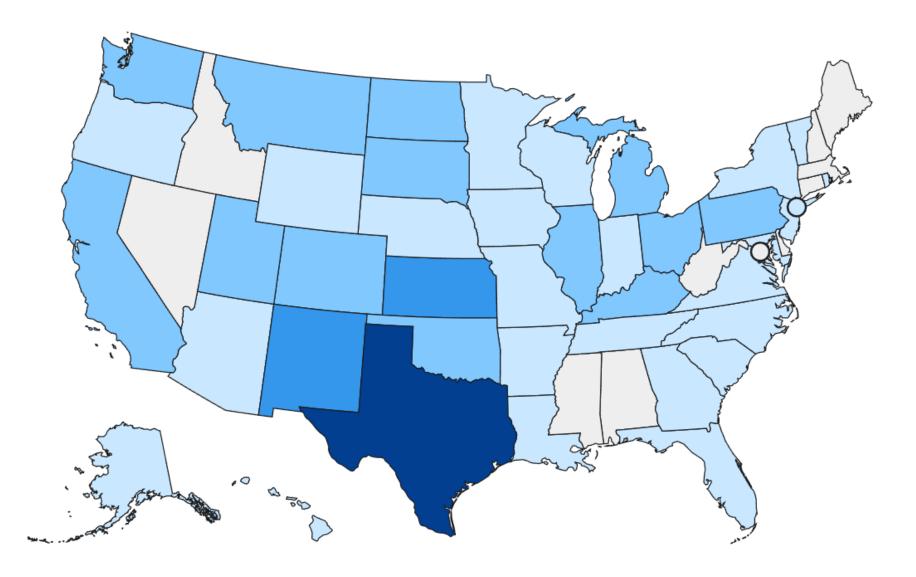


### What is Measles?

- Complications
  - Ear infections
  - Diarrhea
  - Pneumonia
  - Encephalitis (swelling of brain)
  - Subacute sclerosing panencephalitis (SSPE)
    - Develops 7-10 years after infection
    - Rare but fatal
  - Death: 1-3 per 1,000 cases
    - 3 deaths this year in the U.S., 2 in school-age children
- No specific treatment for measles.
- Vaccination is the best way to prevent measles.



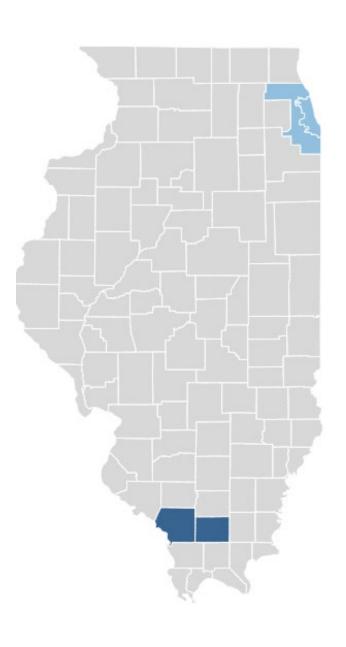
### As of 8/5/25, 1356 confirmed cases in the US





#### **Measles in Illinois**

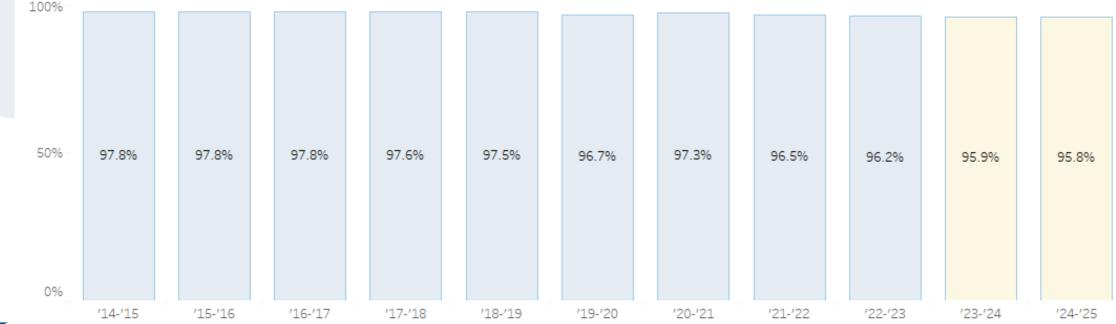
- 10 confirmed cases
- All adults
- No hospitalizations
- 1 outbreak in southern Illinois
  - Ended July 4.
  - An outbreak is defined as 3 or more linked cases.





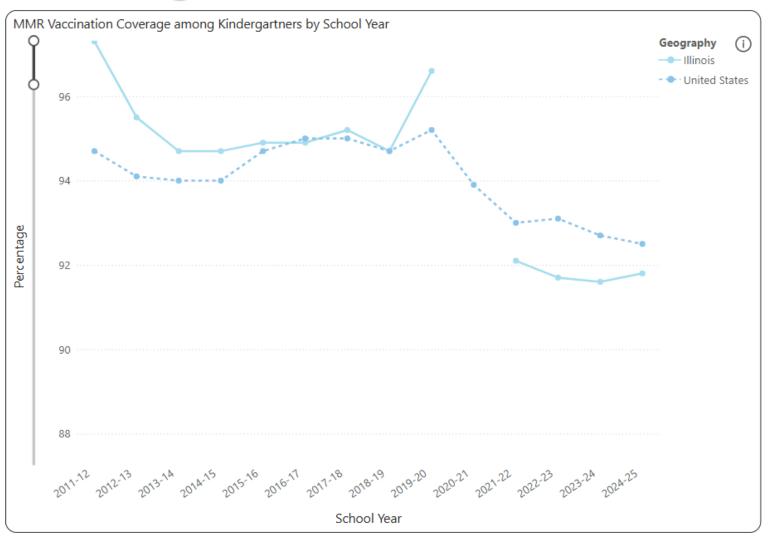
**IL School Measles Vaccination Rates** 

- Vaccination rate in '24-'25 was overall stable from the prior school year.
- Steady decline starting in '17-'18.





# Illinois has been <u>under</u> the U.S. average for kindergarten MMR vaccination rate





#### Measles Outbreak Simulator Dashboard

#### Measles Outbreak Projections in Illinois Schools

Select the county, type of school funding and school district you want to see data for.

If no results are returned, confirm that the school district filter is either set to (All), or to a relevant school district in the selected county-school funding combination.

| County   | Funding Type                     |                         |                    | School District         |                   |  |  |  |
|--|----------------------------------|-------------------------|--------------------|-------------------------|-------------------|--|--|--|
| City of Chicago  | •                                | Public                  |                    | ▼ (AII)                 | (AII)             |  |  |  |
|  |                                  |                         |                    |                         |                   |  |  |  |
| Select a school from the list of relevant schools below to generate a simulation.  |                                  |                         |                    |                         |                   |  |  |  |
|  |                                  |                         |                    |                         |                   |  |  |  |
| School District  | Facility Name                    |                         | Enrollment PreK-12 | School Vaccination Rate |                   |  |  |  |
| Chicago Public Schools Dist 299  | Azuela Elem School               |                         | 692                |                         | 96.5%             |  |  |  |
| Chicago Public Schools Dist 299  | Back of The Yards IB HS          |                         | 1,014              |                         | 99.4%             |  |  |  |
| Chicago Public Schools Dist 299  | Barnard Elem Comp Math & Sci Ctr |                         | 249                | 89.2%                   |                   |  |  |  |
| Chicago Public Schools Dist 299  | Barry Eler                       | Barry Elem School       |                    |                         | 92.6%             |  |  |  |
| If you are a keyboard user, or if your school of interest is not present in the list above, you can type in the school model inputs below. |                                  |                         |                    |                         |                   |  |  |  |
| School Enrollment  |                                  | School Vaccination Rate |                    | Students In             | nitially Infected |  |  |  |
| 85.0%  |                                  |                         | 1                  |                         |                   |  |  |  |

1 Click the information icon to learn more about, and optionally alter, the SEIR model and the epidemic parameters used to generate the projections in this dashboard.

Chance of exceeding 10 new infections new infections

58%

with selected model inputs and epidemic parameters

Likely outbreak size

45 - 72 cases

if there are over 10 new infections new infections



### Illinois School Measles Vaccination Coverage Survey

March 24 – May 2, 2025

Survey was sent to Illinois schools and school districts included in the Illinois 2024-2025 school directory.

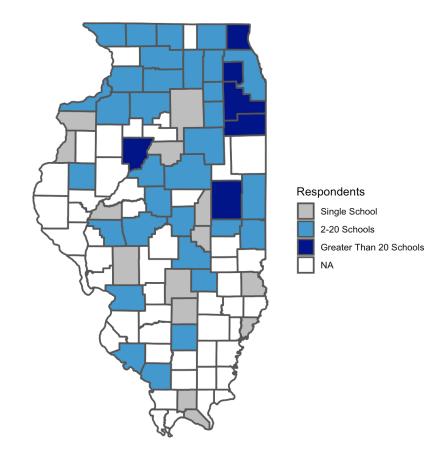
While all schools had the option to participate, schools with <96% coverage in 2023-2024 or 2024-2025 received a targeted email and were encouraged to participate.

544

53

Schools
Principals/Staff Survey
Respondents

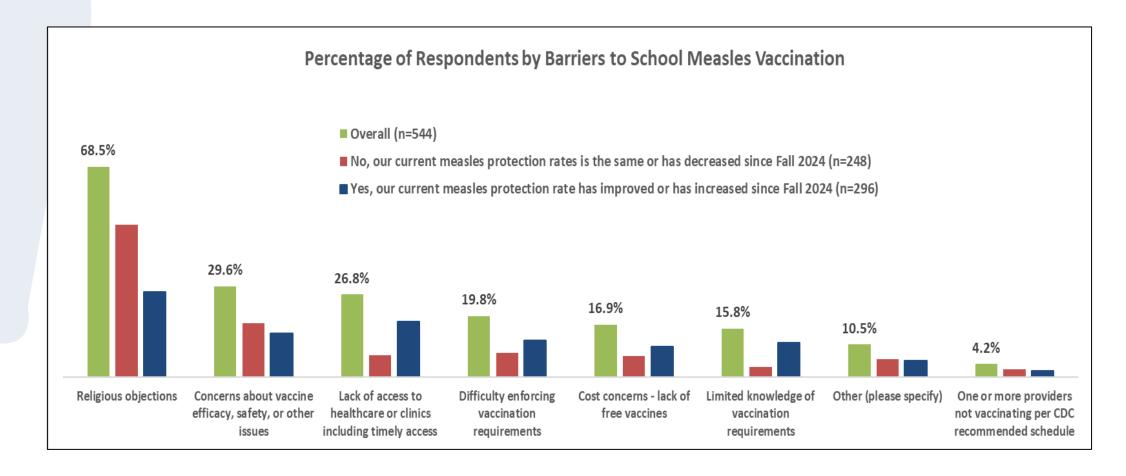
**Counties Represented** 





#### **Illinois School Measles Vaccination Coverage Survey**

#### **Barriers**

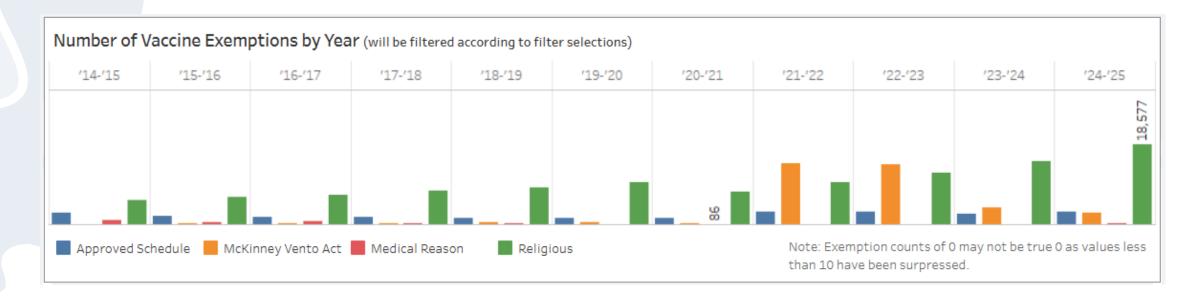


<sup>\*</sup>Note that respondents may be counted across multiple answer categories, as a result of this being a multi-selection question (n=626).



## Religious Exemptions Are Rising

#### **Exemptions for Measles Vaccination**





## **Exemptions From Immunizations**

- Religious exemptions must be requested on the state form.
- Medical exemptions and alternate schedules require a written statement from the child's health care provider.
- All exemption forms/statements must be signed by the health care provider completing the child's school health examination.

ILLINOIS CERTIFICATE OF RELIGIOUS EXEMPTION
TO REQUIRED IMMUNIZATIONS AND/OR EXAMINATIONS FORM

|  | tering kindergarten, sixth or ninth g  | rades when parent(s) or legal guardian(s) is requesting  | g a religious exemption on  |
|--|--|--|---|
| fter October 16, 2015. This form also must li<br>reschool, kindergarten, elementary or secon   |  | emption for any student enrolling to enter any public, of  | charter, private or parochia  |
| This form may NOT be used for  |  | easons. Illinois law does not allow for suc  | h exemptions.   |
| Student Name:(last, first, middle)   | Student Date of Birth:   | School Name:   |   |
|  | Month Day Year   |  | Grade:  |
| Parent/Guardian Name:  | -  | City:  |   |
|  | Gender: □M □F  | Exemption requested for (mark all that apply   | )·  |
|  |  | ☐ Hepatitis B ☐ DTaP ☐ Polio ☐ Hib ☐ Pneumococcal ☐ MMR  |   |
| Address:   | Telephone Number(s):   | □ Varicella □ Td/Tdap □ Meningococcal □ Heal   | Ith Fram IT Eve Fram  |
|  | _  |  |   |
|  | _  | ☐ Dental Exam ☐ Vision/Hearing Tests ☐ Other   | (indicate below)  |
|  |  |  |   |
|  |  |  |   |
|  |  |  |   |
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| Jowever, not following vaccination re- ome in contact, and individuals in the s required, schools may exclude child have read the Religious Exemption he equested for religious exemption.  Signature of parent or legal guardi  HEALTH CARE PROVIDER* —  Provision of information: I have pre- equired examinations, 2) the bene- formunicable diseases for which in  | commendations may endange community. In a disease out them who are not vaccinated in oldice (above) and have provided (required)  COMPLETE THIS SECTI vivided the parent or legal guarants of immunitation, and 3) immunitation is required in Imming the parent or legal guarants of immunitation or required in Imming the parent or legal guarants of the p | er the health or life of the unvaccinated stude-<br>rose, or rather exposure to any of the disease<br>or order to protect all students.  On the disease of the dis | nt, others with whom to<br>see for which immunization/examination being<br>on/examination being<br>that it is a seen as a seen as a<br>nation regarding 1) the<br>community from the<br>reflects that this  |

\*Health care provider responsible for performing child's health examination includes physicians licensed to practice medicine in all of i branches, advanced practice nurses, or physician assistants.



## **Measles Response Planning**

- Review the immunization records of all children
- Follow up with parents/guardians of children who do not have evidence of immunity
  - Educate on importance of and requirement for vaccination
  - Obtain documentation of immunity
  - Provide resources for vaccination
    - Vaccine Locator Dashboard (for Vaccines for Children and Adult 317 Program)
    - Local Health Department
    - Health Care Partner
      - <u>findahealthcenter.hrsa.gov</u>



## **Measles Response Planning**

- Keep a list of all students who do not have evidence of immunity (susceptible).
  - To quickly identify who needs post-exposure prophylaxis and needs to be excluded if exposed
- Review school policies and <u>state law</u> on exclusion of susceptible students and staff if there is a measles case or exposure in your school.
- Have a process for quickly identifying persons who may have been exposed, including students, staff, visitors, and volunteers.
  - Student attendance sheets, staff schedules, visitor and volunteer sign-in sheets
- Identify a designated isolation space.
- Ensure adequate stock of PPE.
- Immediately contact your <u>local health department</u> if you learn of or suspect any students or staff with measles.



# If there is a suspected or confirmed measles case at school

- IDPH Measles Guidance for Schools
  - Found at dph.Illinois.gov/measles.
- Isolate from other students.
  - If possible, place in single room with the door closed while awaiting pick up. Keep that room empty for two hours after the suspect case leaves.
- Immediately contact the <u>local health department (LHD)</u> to ensure control measures are implemented.
  - The LHD will provide additional guidance and instructions, including guidance on excluding the case and any exposed, susceptible individuals and sending communications to the school community.



### **Isolation and Quarantine**

- If diagnosed with measles:
  - Contagious four days before start of rash through four days after start of rash.
  - Isolate and exclude from school during this period.
- If exposed to someone with measles:
  - If no documented proof of immunity (vaccination or laboratory evidence), quarantine and exclude from school for 21 days after last exposure.
  - Post-exposure prophylaxis may be an option.
    - Vaccination within 72 hours after first exposure. No quarantine needed if they receive this.
    - In certain individuals, immune globulin within six days after first exposure. Still need to quarantine.





★ School Preparedness

Before, During, and After School Emergencies

**Preventing Spread of Infections** in K-12 schools

#### Preventing Spread of Infections in K-12 Schools

Print

#### Table of Contents

| Preventing Spread of Infections in K-12 Schools  | Maintaining School Operational Status                     |
|--|---|
| Everyday Actions for Schools to Prevent and Control the Spread of Transmissible Infections | Considerations for Prioritizing Additional Strategies     |
| Spread of Transmissible infections   | Appendix A: How Infections Spread                         |
| When Students or Staff are Sick  |   |
|  | Science Brief: Prevention and Control of Respiratory and  |
| Planning for Outbreaks, Epidemics, and Pandemics   | Gastrointestinal Infections in Kindergarten through Grade |
|  | 12 (K-12) Schools   |
| Additional Strategies that May Be Used to Minimize   |   |
| Infectious Disease Transmission in Schools during Times                                    | Fact Sheet: Help Your Child's School Prevent the Spread   |
| of Elevated Illness Activity   | of Infections   |



## **Everyday Strategies for Schools to Prevent and Control the Spread of Infections**

Take Steps for Cleaner Air

Cleaning,
Sanitizing, and
Disinfecting

Hand Washing

Respiratory Etiquette

**Vaccinations** 



Stay home when sick







## Receive critical IDPH updates by signing up for SIREN alerts.

### siren.illinois.gov





### Resources

- National Association of School Nurses: Immunizations Resources
- Illinois Department of Public Health: Communicable Disease School Nurse Guidance
- Illinois Control of Communicable Disease Code
- IL Immunization Requirements for Child Care Facilities and Schools
- IDPH Talking to Parents About Immunizations Resource Toolkit
- IDPH School Vaccination Coverage Dashboard
- IDPH VFC Vaccine Locator
- IDPH Measles Webpage: <a href="mailto:dph.illinois.gov/measles">dph.illinois.gov/measles</a>
  - Guidance for Schools
- IDPH Measles Outbreak Simulator Dashboard



## Thank you for all that you do!



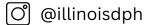




## Questions?

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