Congenital cytomegalovirus (cCMV) surveillance: a recently added threat in the Surveillance for Emerging Threats to Pregnant People and Infants Network (SET-NET)

Presented by: Ashrita Rau, MPH | Tory Kaye, MPH | Kelley Raines, MPH



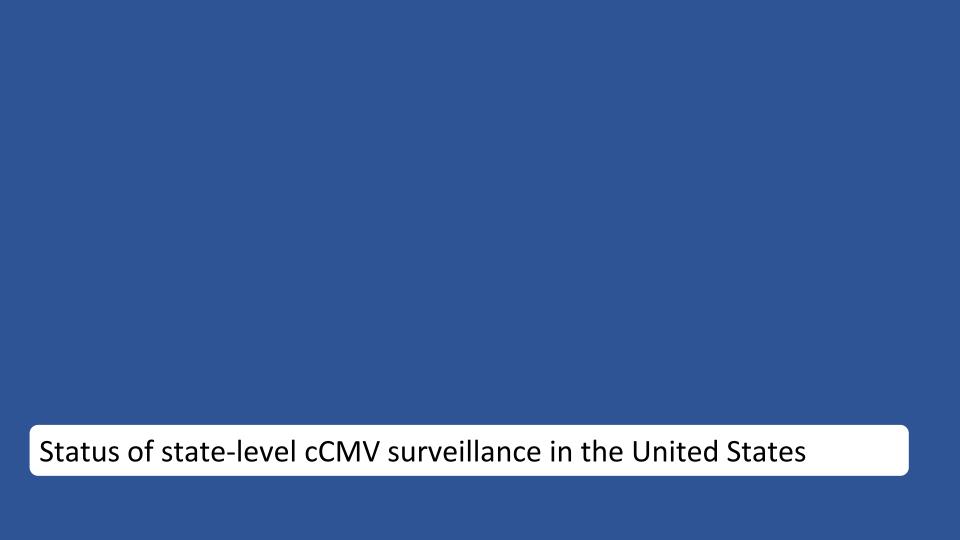






# Agenda

- Summarize the status of state-level cCMV surveillance in the United States
- ➤ Describe the goals and cross-jurisdictional outcomes of the cCMV surveillance pilot within SET-NET
- > Report findings from the first year of the SET-NET pilot
  - Across all participating jurisdictions
  - In-Depth report from Minnesota
- > Questions and answers



### Status of state-level cCMV surveillance in the U.S.

# Eleven\* states systematically collect cCMV surveillance data:

New Jersey (1985), Colorado (1987), Illinois (1989), Oklahoma (1994), Delaware (2003), Michigan (2011), Utah (2013), Connecticut (2016), New York (2016), Virginia (2020), Minnesota (2023)



Minnesota becomes first state to screen all newborns for congenital cytomegalovirus

Common virus can lead to hearing loss in about 20% of diagnosed cases

Earlier this week the Minnesota Department of Health (MDH) became the first state in the nation to screen all newborns for congenital cytomegalovirus (cCMV), a common viral infection that can have serious health effects for children if not detected early.

<sup>2</sup>Division of Viral Diseases, Nation

Center for Immunization and Res

Diseases, Centers for Disease Con

Prevention, Atlanta, Georgia, USA

<sup>\*</sup>Since 2022, legislation for targeted hearing screening for cCMV has been enacted in Florida, Kentucky, Louisiana, and Maine with cCMV surveillance practices unknown

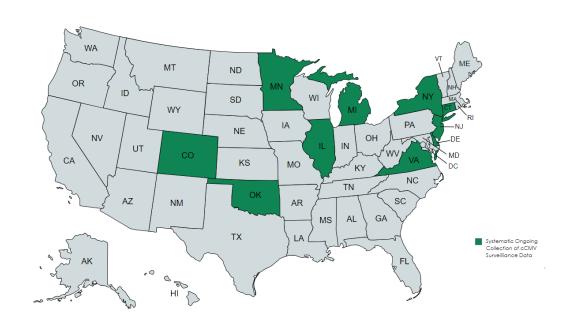
### Status cCMV Surveillance: Methods of Surveillance

### **Method of Ascertainment/Reporting:**

- Laboratory results (DE, UT, CT, VA, MN)
- Diagnostic codes (NJ, CO, IL, OK, NY)
- Reported diagnosis (NJ, CO, IL, NY)

#### **cCMV Screening Practices:**

- Targeted hearing screening (UT, CT, NY, VA)
- Universal screening (MN)
- High-risk symptom screening (UT)



### Status of cCMV Surveillance: Data Elements Collected

	Data Elements Collected						Data	Data
State	Demographics	Clinical Signs	Laboratory	Treatment	Long-term Outcomes	Maternal	Analysis Capacity¶	Disseminated <sup>††</sup>
New Jersey	X	X					X	
Colorado	Х					Х	Х	
Illinois	X	Х		Χ		X§	Х	Х
Oklahoma	X	Х				X§	X	
Delaware	Χ	Х	X			X§	X	
Michigan	Х	Х				Х	Х	Х
Utah	X	Х	Х	X	Х	X§	Х	Х
Connecticut	X	x	X	X		X	X	
New York	Х					Х	Х	
Virginia	Х	X	X	X		X	x	X
Minnesota	Х	Х	Х	Х	Х	Х	Х	Х
Total	l 11	9	5	5	2	10	11	5

<sup>§</sup> Maternal infection data collected along with maternal demographics

<sup>¶</sup> Includes states who showed the capacity to analyze birth prevalence

<sup>††</sup>Includes states who developed summaries, reports, or visualizations that they reported sharing

# Status of cCMV Surveillance: Challenges Reported



Limited Personnel



Delays in Case Data Submission



**Limited Funding** 



Incomplete Reporting



Complex and Siloed
Data Systems



Lack of Standardized Case Definition

CSTE: Council of State and Territorial Epidemiologists

# What was approved by CSTE at the annual June meeting (effective Jan 2024):

- 1. Reporting criteria
- 2. Case classifications based on clinical and laboratory evidence:

Case Classification	Laboratory Evidence	Clinical Evidence
Confirmed cCMV infection	Confirmatory	No
Confirmed cCMV Disease	Confirmatory	Yes
Probable cCMV disease	Presumptive	Yes



#### 23-ID-02

Committee: Infectious Disease

Title: Standardized Surveillance Case Definitions for Congenital Cytomegalovirus (cCMV) Infection and Disease

□Check this box if this position statement is an update to an existing standardized surveillance case definition and include the most recent position statement number here: N/A.

#### Synopsis:

- This position statement creates standardized case definitions for cCMV infection and disease.
- Standardized case definitions for cCMV infection and disease are needed because multiple jurisdictions in
  the United States are conducting cCMV screening and surveillance activities but are using various methods
  and inclusion criteria for case ascertainment, reporting, and classification. As more jurisdictions pass
  legislation for newborn screening for cCMV, standardized case definitions for cCMV infection and disease
  can be used to understand the epidemiology of cCMV and compare trends across the United States.
- Case ascertainment criteria include laboratory criteria (the detection of CMV in neonatal urine, saliva, whole blood, or cerebrospinal fluid specimens, in amniotic fluid specimens, or umbilical cord or autopsy specimens), vital records criteria (infant death certificates), and healthcare records criteria (e.g., using ICD-10 diagnostic codes).
- Case classification criteria include clinical and laboratory criteria.
- Case classifications include confirmed cCMV infection, confirmed cCMV disease, and probable cCMV disease.

#### I. Statement of the Problem

Cytomegalovirus (CMV) infection during pregnancy can cause stillbirth, infant death, and a myriad of birth defects. <sup>1,3</sup> In the United States (U.S.), approximately 1 in 200 babies is born with congenital CMV (cCMV) infection; one out of 5 of these babies will present with clinical signs of cCMV disease in the neonatal period and/or have long-term health conditions. <sup>4</sup> cCMV is the most common infectious cause of developmental disabilities and non-genetic sensorineural

### **Reporting Criteria**

- Laboratory
  - CMV-positive PCR or culture of urine, saliva, whole blood, dried blood spot, CSF
     or
  - detection of CMV antigen in other specimens (umbilical cord, autopsy specimen, whole blood)
- Vital Records
  - An infant aged one year or less whose death certificate lists cCMV or CMV as an underlying cause of, or significant condition contributing to, death
- Healthcare Record
  - A child aged 6 years or younger with a diagnosis of cCMV infection (P35.1) or
  - An infant aged 45 days or younger with a diagnosis of CMV disease (B25.x)

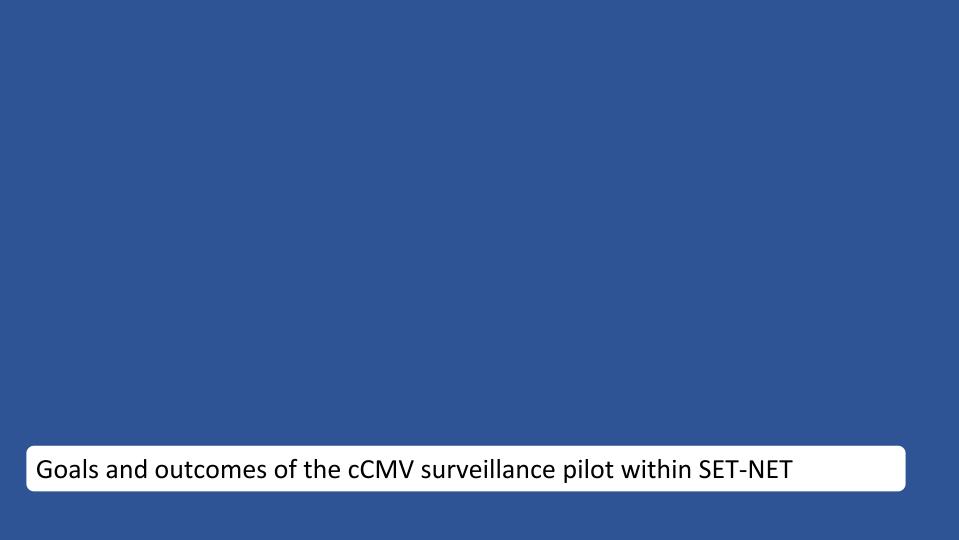
### **Laboratory Evidence**

C	Confirmatory (C)				Presumptive (P)			
 Birth			21 da	ays			l 42 days	
Specimens	NAAT	Culture	Antigen Test	Specimens	NAAT	Culture	Antigen Test	
Urine	С	С		Urine	Р	Р		
Whole blood	С	С	С	Whole blood	Р	Р	Р	
Dried blood spot	С							
CSF	С	С		CSF	Р	Р		
Saliva*	Р	Р		Saliva*	Р	Р		

<sup>\*</sup>Presumptive in absence of negative urine test; requires confirmation with urine test <21 days to become "confirmatory"

#### **Clinical Evidence**

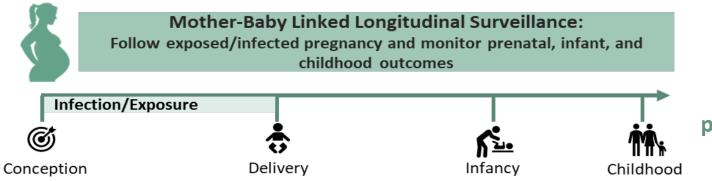
- An infant with at least one of the following clinical signs during the neonatal period:
  - Hepatomegaly
  - Splenomegaly
  - Petechial rash or purpura
- A child aged **6 years or younger** with one or more of the following permanent conditions:
  - Microcephaly
  - Brain imaging abnormalities consistent with cCMV
  - Sensorineural hearing loss
  - Seizures
  - Cerebral palsy
  - Chorioretinitis
  - Vision impairment, resulting from conditions consistent with cCMV



### cCMV SET-NET Surveillance Pilot: What is SET-NET?

### **Surveillance for Emerging Threats to Pregnant People and Infants Network**

- State, local, and territorial health departments work with CDC to identify the impact of emerging health threats on pregnant people & infants
- Collects information on five infectious diseases, including cCMV



Used to inform clinical and public health guidance

### cCMV SET-NET Surveillance Pilot: Participants and Activities

#### **Eight jurisdictions** participating in the cCMV SET-NET Pilot:

- Year 1 (2022-2024): Minnesota, Utah, New York, New Jersey & Iowa
- Year 2 (2023-2024): Plus, LA County, Virginia, Illinois

#### Year 1 (2022-2023) Objectives:

- Identify, develop, and evaluate surveillance methods for cCMV
- Assess trends in cCMV infection and disease (aggregate data submitted)

#### Year 2 (2023-2024) Objectives:

- Identify, develop, and evaluate surveillance methods for cCMV
- Assess trends in cCMV infection and disease (caselevel data submitted)

#### SHORT-TERM INTERMEDIATE-LONG-TERM **INPUTS ACTIVITIES** OUTCOMES TERM OUTCOMES **OUTCOMES** Identify, develop, and Improved understanding of Informed cCMV Funding evaluate methods for cCMV surveillance surveillance cCMV surveillance in processes and attributes in processes and participating jurisdictions CDC and participating jurisdictions best practices iurisdictional Improved understanding of technical multi-jurisdictional expertise Increased use of a trends in cCMV CSTE cCMV case Assess trends in cCMV Enhanced cCMV infection and SET-NET definition by infection and disease in surveillance processes in disease surveillance iurisdictions participating jurisdictions participating jurisdictions svstem SET-NET's Improved quality Improved understanding of pre-existing of cCMV Informed public Provide ad hoc support the acceptability and partnerships surveillance data health strategies feasibility of implementing a with state as requested by to prevent. CSTE cCMV case definition iursidictions health detect, and treat in participating jurisdictions cCMV-associated departments Increased use of disabilities cCMV surveillance Partnership data for public between health action at Increased use of cCMV NCIRD and multi-iurisdictional Facilitate dialogue surveillance data for public level NCBDDD health action in participating between jursidictions iurisdictions

### cCMV SET-NET Surveillance Pilot: Participants and Activities

**Eight jurisdictions** participating in the cCMV SET-

**INPUTS** 

#### **ACTIVITIES**

#### SHORT-TERM **OUTCOMES**

#### INTERMEDIATE-TERM OUTCOMES

LONG-TERM **OUTCOMES** 

#### NFT Pilot

- Year 1 (2022-2024): Minnesota, Utah, New York, New Jersey & Iowa
- Year 2 (2023-2024): Plus, LA County, Virginia, SET-NET Illinois

#### Year 1 (2022-2023) Objectives:

- Identify, develop, and evaluate surveillance methods for cCMV
- Assess trends in cCMV infection and disease (aggregate data submitted)

Funding

 CDC and iurisdictional technical expertise

surveillance system

•SET-NET's pre-existing partnerships with state health departments

 Partnership between NCIRD and NCBDDD

Identify, develop, and evaluate methods for cCMV surveillance in participating jurisdictions

Assess trends in cCMV infection and disease in participating jurisdictions

Provide ad hoc support as requested by iursidictions

Facilitate dialogue between jursidictions Improved understanding of cCMV surveillance processes and attributes in participating jurisdictions

Enhanced cCMV surveillance processes in participating jurisdictions

Improved understanding of the acceptability and feasibility of implementing a CSTE cCMV case definition in participating jurisdictions

Increased use of cCMV surveillance data for public health action in participating iurisdictions

Informed cCMV surveillance processes and best practices

Increased use of a CSTE cCMV case definition by iurisdictions

Improved quality of cCMV surveillance data

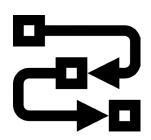
Increased use of cCMV surveillance data for public health action at multi-jurisdictional level

Improved understanding of multi-jurisdictiona trends in cCMV infection and disease

Informed public health strategies to prevent. detect, and treat cCMV-associated disabilities

**Outcome #1:** Improved understanding of cCMV surveillance methods and attributes

**Identify** and **evaluate** jurisdictions' cCMV surveillance methods by collecting information on:



**Surveillance Processes** 



Acceptability and Simplicity of Surveillance



**Data Completeness** 



Surveillance Data (Aggregate)

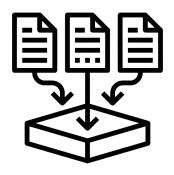
### **Surveillance Processes as of July 2023:**

Surveillance Criteria	Utah	Minnesota	New Jersey	New York*	lowa*
Conducting cCMV Surveillance	Yes	Yes	Yes	Yes	No
Method of Ascertainment/ Reporting	Laboratory Results	Laboratory Results or Diagnostic Code	Laboratory Results, Diagnostic Code, or Clinical Report	Diagnostic Code	N/A
cCMV Case Classification	Confirmed: Positive PCR or viral culture test (Urine, Saliva, Blood, CSF) before 21 days of of life	Confirmed: Positive NAAT from urine, urine, whole blood, or CSF within 21 21 days of life.  Probable: Positive NAAT from saliva saliva within 42 days and NAAT from from urine, whole blood, or CSF within 22 – 42 days of life with clinical signs. (CSTE Case Definition)  Definition) niversal screening of cCMV with corresponding	Confirmed: Clinical report, Diagnostic code, or Positive PCR PCR test (Urine, Saliva, Blood) before before 21 days of life life	Confirmed: Diagnostic Diagnostic Code	N/A

surveillance

### **Reports on Simplicity of cCMV surveillance:**

#### **Data Collection**



Multiple data sources and complex/unstandardized abstraction processes make data collection challenging

#### **Data Management**



System maintenance was reported as fairly simple and can be easily streamlined and/or outsourced

### **Reports on Acceptability of cCMV surveillance:**

#### **Case Ascertainment/Reporting**



Statutes are key for reporting compliance and case ascertainment

#### **Timeliness of Reporting**



ELR are received in 1-2 days by MN and UT. Timeliness of non-automated systems is dependent on clinician awareness.

#### **cCMV** Awareness



cCMV awareness has been low early in screening/surveillance, leading to the need for consistent training

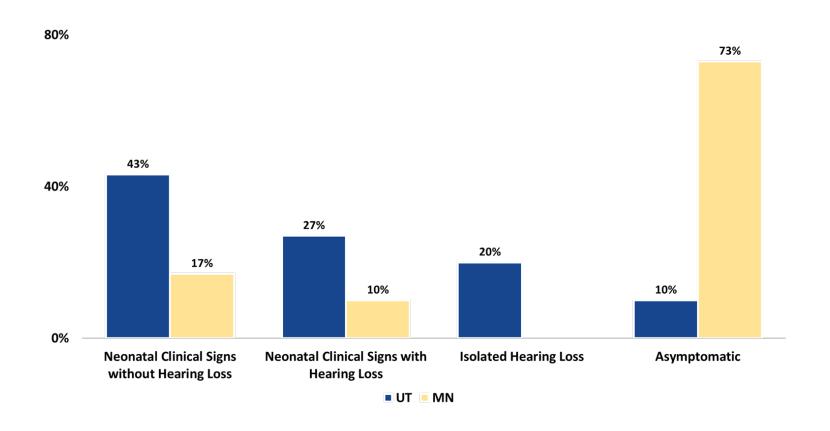
Data Collected for cCMV Surveillance (MN and UT)\*:

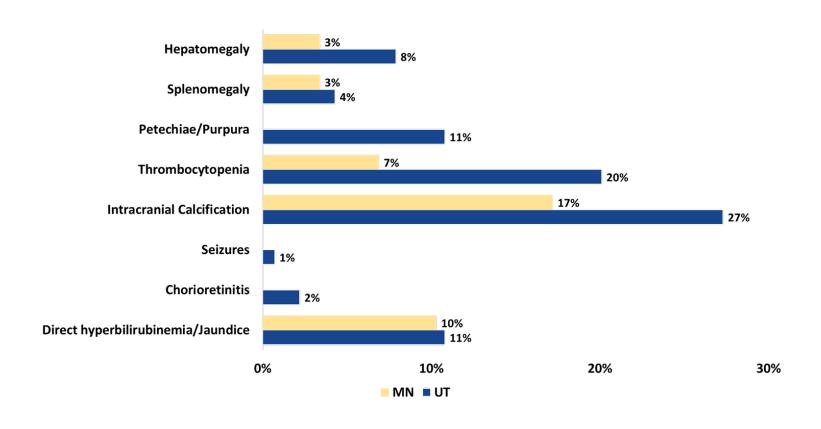
Category of Data	Data Sources	Data Elements	Status of Data Collection^	
Laboratory Records	Electronic lab records, newborn	Infants Testing Results	Systematically collected (MN and UT mandate reporting via lab confirmation	
	screening reports, clinician reports	Prenatal Testing Results	Not systematically collected	
		Demographics	Systematically Collected	
Maternal Information	Infant medical records, vital records	Obstetrics Information	Not Systematically Collected	
		Ultrasound Results	Not Systematically Collected	
		cCMV Clinical Signs	Systematically Collected	
Pregnancy and Birth	Medical records, vital records, early hearing and detection intervention system, birth defects system	Incurring server ming results	Systematically Collected	
Outcomes		Adverse Outcomes	Systematically Collected	
		Treatment Data	Systematically Collected	
		Referrals (i.e., Ophthalmology and audiology)	Systematically Collected	
Long-Term Follow-Up (MN collected > 1 year; UT on-going follow-up)		Ophthalmologic Evaluation Data	Systematically Collected	
	Infant medical records, vital records, early hearing and detection intervention system	Audiologic Evaluation Data	Systematically Collected	
		Brain Imaging Data	Systematically Collected	
		Treatment Outcomes	Systematically Collected	
		Developmental Screening Data	Not Systematically Collected	

<sup>\*</sup>Summary for MN and UT only as only predictive estimated reported by other participating jurisdictions

<sup>^</sup>Systematically collected was defined as completeness >80% for variables collected within each data element

Jurisdiction	Case Ascertainment	Period for Reported cCMV Cases	Annual Number of Reported cCMV Cases	Annual Prevalence per 1,000 Live Births
Utah	Targeted Hearing and High-Risk Screening	2013 - 2023	4 - 28	0.12 – 0.60
New Jersey	Diagnostic Codes, Clinical Reports	2018 - 2022	16 - 26	0.16 – 0.26
Minnesota	Universal Screening	2023	29	1.96





# cCMV SET-NET Surveillance Pilot: Key Activities (Year 1)

### Outcome #2: Enhanced cCMV surveillance processes in participating jurisdictions



Two jurisdictions started cCMV surveillance



Jurisdictions established data use agreements



One jurisdictions evaluated and backfilled missing cCMV surveillance



One jurisdiction surveyed the processes of targeted screening hospitals



Two jurisdictions added/in the process of adding cCMV to the communicable disease rule



Jurisdictions developed cCMV specific databases



Jurisdictions collaborated with programs across the HD for cCMV surveillance



Jurisdictions shared surveillance best practices with each other

### cCMV SET-NET Surveillance Pilot: Participants and Activities

Eight jurisdictions participating in the cCMV SET-

**INPUTS** 

#### ACTIVITIES

#### SHORT-TERM OUTCOMES

#### INTERMEDIATE-TERM OUTCOMES

LONG-TERM OUTCOMES

#### NFT Pilot

- Year 1 (2022-2024): Minnesota, Utah, New York, New Jersey & Iowa
- Year 2 (2023-2024): Plus LA County, Virginia
   Illinois

#### Year 1 (2022-2023) Objectives:

- Identify, develop, and evaluate surveillance methods for cCMV
- Assess trends in cCMV infection and disease (aggregate data submitted)

•Funding

•CDC and jurisdictional technical expertise

•SET-NET surveillance system

•SET-NET's pre-existing partnerships with state health departments

•Partnership between NCIRD and NCBDDD Identify, develop, and evaluate methods for cCMV surveillance in participating jurisdictions

Assess trends in cCMV infection and disease in participating jurisdictions

Provide ad hoc support as requested by jursidictions

Facilitate dialogue between jursidictions

Improved understanding of cCMV surveillance processes and attributes in participating jurisdictions

Enhanced cCMV surveillance processes in participating jurisdictions

Improved understanding of the acceptability and feasibility of implementing a CSTE cCMV case definition in participating jurisdictions

Increased use of cCMV surveillance data for public health action in participating jurisdictions Informed cCMV surveillance processes and best practices

Increased use of a CSTE cCMV case definition by jurisdictions

Improved quality of cCMV surveillance data

Increased use of cCMV surveillance data for public health action at multi-jurisdictional level

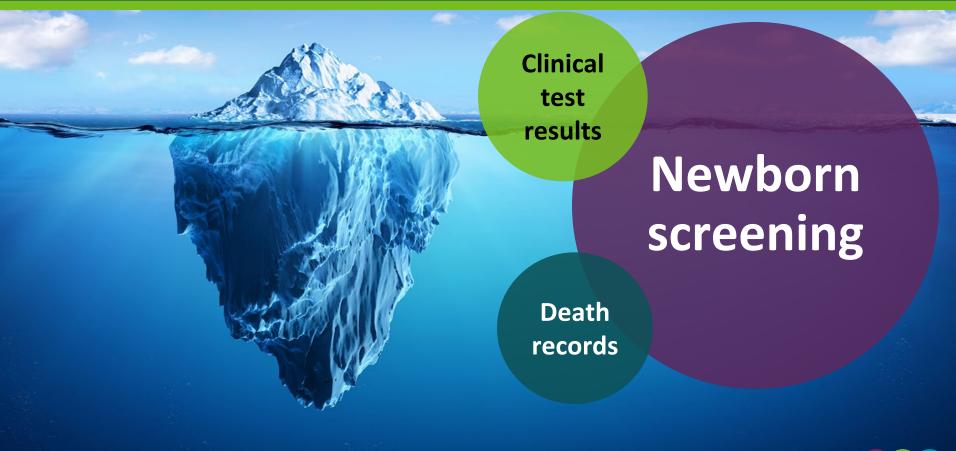
Improved understanding of multi-jurisdictiona trends in cCMV infection and disease

Informed public health strategies to prevent, detect, and treat cCMV-associated disabilities



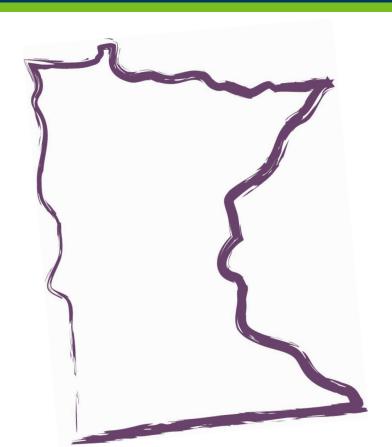
### Minnesota Surveillance Process & Attributes

# Case ascertainment in Minnesota





### cCMV surveillance in Minnesota



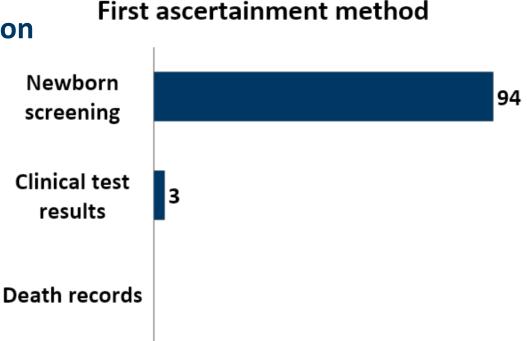
- Statewide, population-based
- Reporting criteria
  - cCMV/CMV listed as cause of death
  - Positive laboratory test ≤ 90 days of life
- Case definition:
  - Resident of MN at birth
  - Born on/after February 6, 2023
  - Meets CSTE case definition for cCMV
  - Initial data collection complete



# Preliminary surveillance data in Minnesota February 6–August 5, 2023

• 97 infants meeting inclusion criteria reported

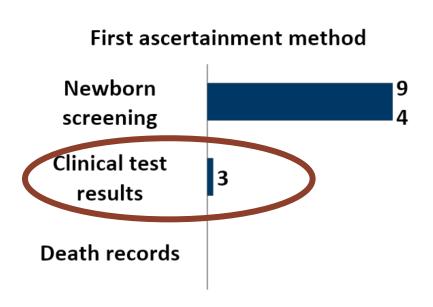
 78 with initial data collection complete





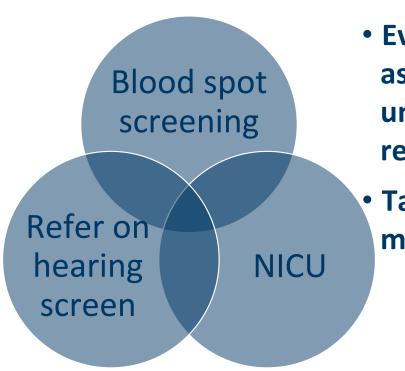
# We only know what we know

- cCMV is not a reportable disease (yet)
  - Cannot mandate clinical reporting
  - **○3 of 6 clinical labs voluntarily reporting positive results**
- With universal screening, will providers assume we already know about the case?





# Targeted screening still useful



- Even after mandated reporting, asymptomatic babies are unlikely to be tested and reported
- Targeted screening can pick up more





# Feasibility & Acceptability of Applying a Case Definition

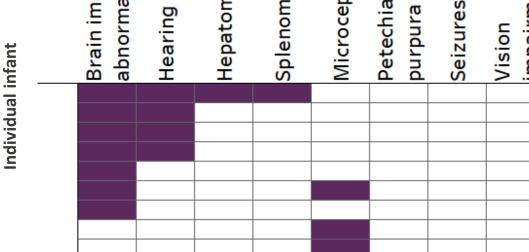
### Laboratory criteria

- **○Confirmatory: 72 (92%)**
- Dried blood spot (DBS) collected ≤ 21 days, no negative urine
- Presumptive: 2 (3%)
- Dried blood spot collected 21 ≤ 42 days, no negative urine
- ODoes not meet: 4 (5%)
  - Positive blood or saliva with a negative urine (and negative DBS)
  - Positive urine with prior negative urine, whole blood, DBS
  - Positive DBS with negative confirmatory urine

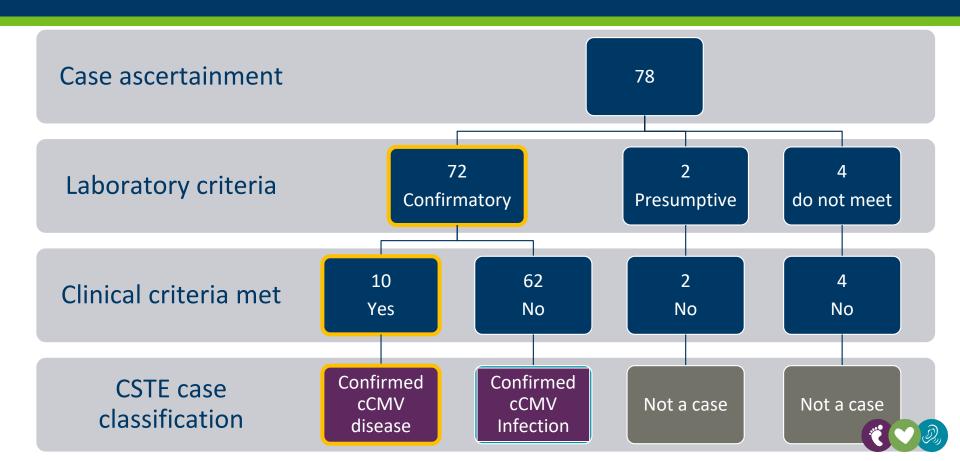


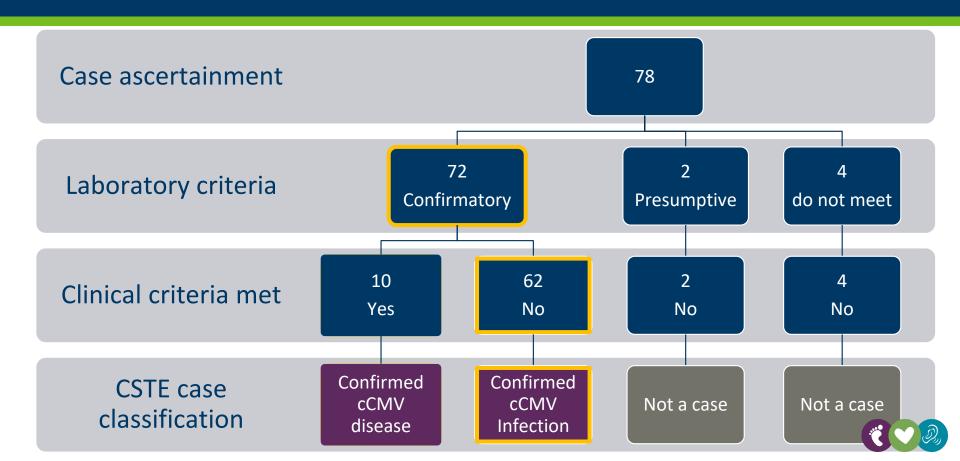
- Clinical criteria
  - ○Yes, 10 (13%)
  - ONo, 68 (87%)

Petechial rash, Hepatomegaly Splenomegaly Brain imaging Microcephaly Hearing loss

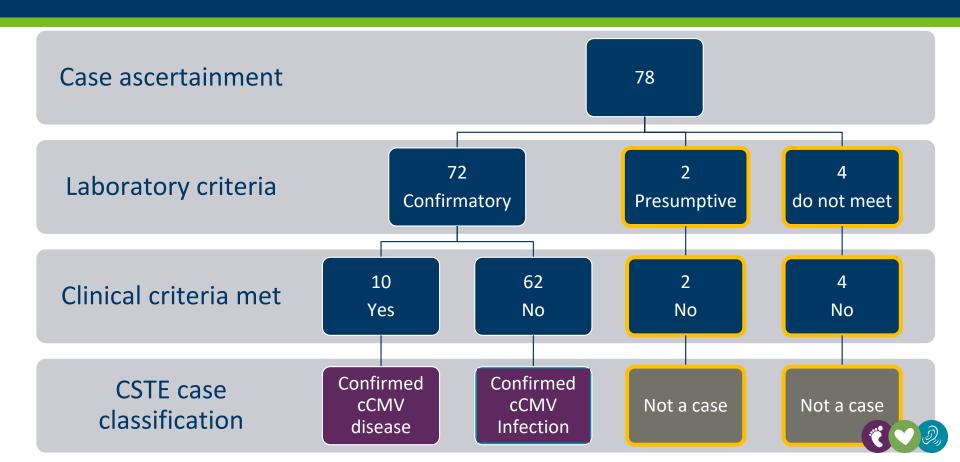




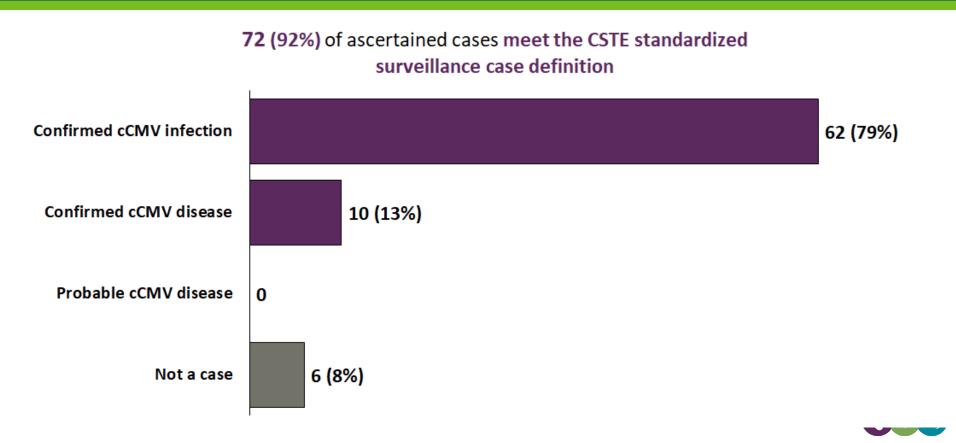




# Applying the CSTE surveillance case definition



#### Applying the CSTE surveillance case definition



# Feasibility of standardized case definition

- Feasible from an epidemiological/surveillance standpoint
  - Acceptance that public health data are messy
  - All information collected by newborn screening followup

- Resource intensive
  - Medical record abstraction takes 1-3 hours per infant



# Feasibility of standardized case definition

- Brain imaging data collection
  - Complex medical information
  - "Brain imaging abnormalities consistent with cCMV, such as intracranial calcifications,..."
- Hard to tell whether something was due to cCMV or alternative diagnosis
  - "In the absence of a more likely alternative etiology:"



# Acceptability of standardized case definition

- Difficult from newborn screening which has a more clinical perspective
  - Asymptomatic, mildly symptomatic, moderate/severely symptomatic do not align well with case definition
  - Dried blood spot positive without confirmatory specimen
    - Confirmed surveillance case
    - "No follow-up" for screening- not useful for performance metrics



# Acceptability of standardized case definition

- Separate screening and surveillance
  - Newborn screening would be a data source and aid in defining cohort

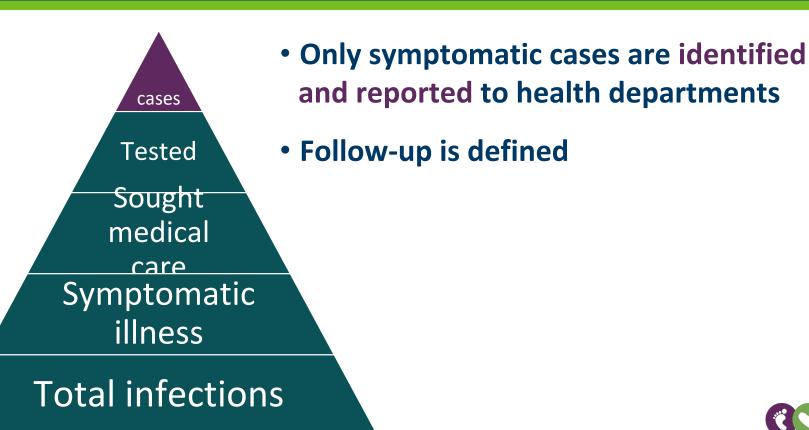




#### Use of Surveillance Data for Public Health Action

health.state.mn.us 43

### Typical infectious disease case ascertainment



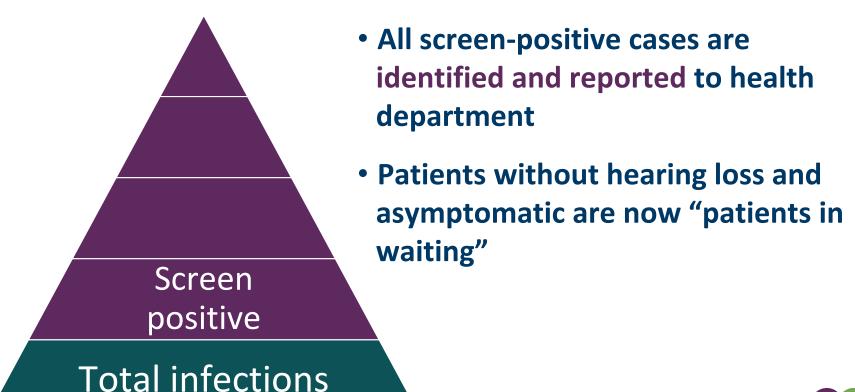


#### Use of infectious disease surveillance

- Surveillance data support public health action
- Most well known for outbreak detection
  - Mostly acute diseases
- Identify at-risk groups
- Estimate burden
- Public health action is quick
  - -Remove the implicated source = stop the outbreak
  - -Protect against additional illness

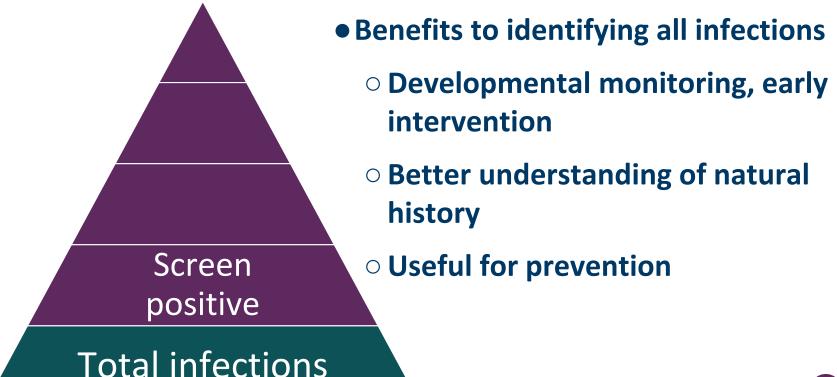


#### cCMV with universal screening case ascertainment





### cCMV with universal screening





Typical Infectious Disease Surveillance	cCMV Surveillance
Most well known for outbreak detection	CMV is ubiquitous, does not occur in outbreaks
Mostly acute diseases	
Public health action is quick	
Remove the implicated source = stop the outbreak	
Protect people from getting sick	
Identify at-risk groups; estimate disease burden	

Typical Infectious Disease Surveillance	cCMV Surveillance
Most well known for outbreak detection	CMV is ubiquitous, does not occur in outbreaks
Mostly acute diseases	Small proportion are acute onset
Public health action is quick	
Remove the implicated source = stop the outbreak	
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Typical Infectious Disease Surveillance	cCMV Surveillance
Most well known for outbreak detection	CMV is ubiquitous, does not occur in outbreaks
Mostly acute diseases	Small proportion are acute onset
Public health action is quick	Limited public health action so far
Remove the implicated source = stop the outbreak	
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Identify at-risk groups; estimate disease burden	

Typical Infectious Disease Surveillance	cCMV Surveillance
Most well known for outbreak detection	CMV is ubiquitous, does not occur in outbreaks
Mostly acute diseases	Small proportion are acute onset
Public health action is quick	Limited public health action so far
Remove the implicated source = stop the outbreak	Other children are a well known source
Protect people from getting sick	
Identify at-risk groups; estimate disease burden	

Typical Infectious Disease Surveillance	cCMV Surveillance
Most well known for outbreak detection	CMV is ubiquitous, does not occur in outbreaks
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Protect people from getting sick	••••
Identify at-risk groups; estimate disease burden	

Typical Infectious Disease Surveillance	cCMV Surveillance	
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Remove the implicated source = stop the outbreak	Other children are a well known source	•
Protect people from getting sick		•
Identify at-risk groups; estimate disease burden		

# People and Animals Can Share Germs

#### Most likely to get sick

Babies, toddlers, older adults, pregnant women, and those with weakened immune systems

#### **STAY HEALTHY**



No food, drinks, bottles, or pacifiers in the animal area

Don't touch your hands to your face or mouth





Watch children closely



# Comparison to petting zoos

# Take home memories, not germs



While getting your selfies with the animals:

No food, drinks, bottles, or pacifiers in the animal area



Don't touch your hands to your face or mouth



Watch children closely



#### **STAY HEALTHY**







Typical Infectious Disease Surveillance	cCMV Surveillance
Most well known for outbreak detection	CMV is ubiquitous, does not occur in outbreaks
Mostly acute diseases	Small proportion are acute onset
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Protect people from getting sick	Educate to protect health
Identify at-risk groups; estimate disease burden	

Typical Infectious Disease Surveillance	cCMV Surveillance
Most well known for outbreak detection	CMV is ubiquitous, does not occur in outbreaks
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Remove the implicated source = stop the outbreak	Other children are a well known source
Protect people from getting sick	Educate to protect health
Identify at-risk groups; estimate disease burden	Identify at-risk groups; estimate disease burden

# Using surveillance data in Minnesota

- cCMV consortium, hear from families and providers
- Congenital community of practice at MDH





#### Using multistate surveillance data

- How can multistate surveillance help situations like these?
  - Increase conversation about inherent risks
  - Pool data collected to increase knowledge
  - Lead to new or improved public health action







#### cCMV Surveillance: What's Next?

- Develop cCMV surveillance best practices
- Enhance awareness, implementation, and evaluation of the CSTE cCMV case definition
- Evaluate and improve cCMV surveillance data quality
- Increase use of cCMV surveillance data for public health action

# Acknowledgements

**SET-NET Jurisdiction POCs** 

Los Angeles County

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lowa

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**SET-NET CDC Team** 

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Christina Sancken

Sancker

**Allison Fountain** 

Elizabeth Lewis

Amanda Akosa

Megan Reynolds

**CMV CDC Team** 

Tatiana Lanzieri
Jade Nortey

Jessica Leung
David Sugerm

David Sugerman

# Questions & Answer

