

# MDH Interoperability Webinar Series: Electronic Case Reporting (eCR)

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PROTECTING, MAINTAINING AND IMPROVING THE HEALTH OF ALL MINNESOTANS

## **MDH Overall Data Strategy**



## Join any or all MDH Interoperability Webinars in this Series:

Date	Public Health Reporting Use Case		
January 20	Electronic Case Reporting (eCR) *		
January 27	Laboratory Orders/Results – Infectious Disease Lab (IDL)		
February 3	Laboratory Orders/Results – Newborn Screening Blood Spot (NBS)		

- For past Webinar materials, including recordings:
   <u>DSI website (https://www.health.state.mn.us/data/interoperability/webinar.html)</u>
- Further questions: health.dsi@state.mn.us

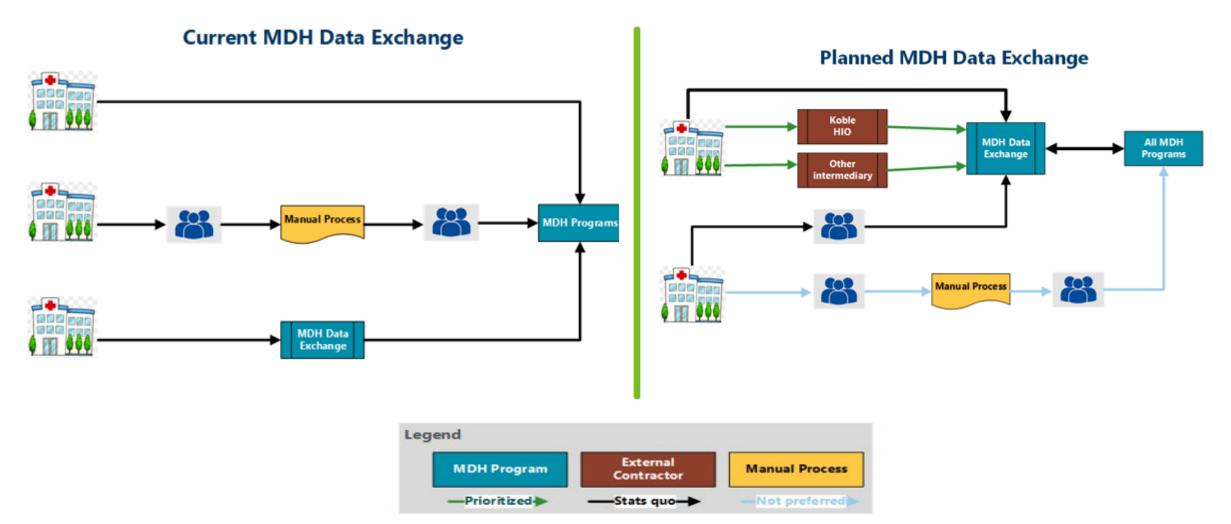


## Webinar providing information towards:

- ✓ Reducing your reporting administrative burden
- ✓ Meeting the CMS public health reporting requirements
- ✓ Improving data quality so information shared with MDH can better address future emerging threats and address population health issues
- ✓ Learning how you, your organization, and your patients benefit from improved public health reporting



## MDH Interoperability Strategy: Overall





## **MDH Request of External Partners**

- ✓ Schedule meeting with DSI to discuss more details related to health system needs
  - Determine your organizations' public health reporting priorities for implementation and share with DSI (checklist)
  - Discuss any barriers or opportunities for electronic implementation with MDH
- Consider Participation Agreement with Koble (https://3b54d489-fb07-4eda-b01d-8169cc695bc4.filesusr.com/ugd/64a972 dddba6a5436949e5952abe8094b9c778.pdf)
- Plan and coordinate MDH public health reporting improvements through DSI and provide feedback to processes



## **Electronic Case Reporting (eCR)**



#### What is eCR?

#### **Electronic case reporting (eCR)**

is the automated, real-time exchange of case report information between electronic health records (EHRs) and public health agencies

eCR aims to eliminate the burden of manual reporting for health care providers

### **Current State of Disease Reporting**

#### DISEASE REPORT CARD

Fax completed form to: 651-201-5743		Cases may also be reported	by phone: 651-201-5414, 1-877-676-5414	
PATIENT DEMOGRAPHIC INFORMATIO	N			
Medical Record Number:				
Patient name:				
Address:				
City:			County:	
Phone (home):	Phone (oth	er):	Mobile/cell Work	
Date of birth:/  Sex:	1	Race (check all that apply):  American Indian or Asian Black Native Hawaiian or White Other:	Pacific Islander	
Occupation:		Hospitalized?  Yes No  Hospital name:  Admit date:  Discharge date:  Discharged to:  Long-term Ca	J	
DISEASE AND LABORATORY INFORMA	TION			
Disease:		Person reporting:		
Case Suspected case Asymptomatic carrier		Institution/clinic:		

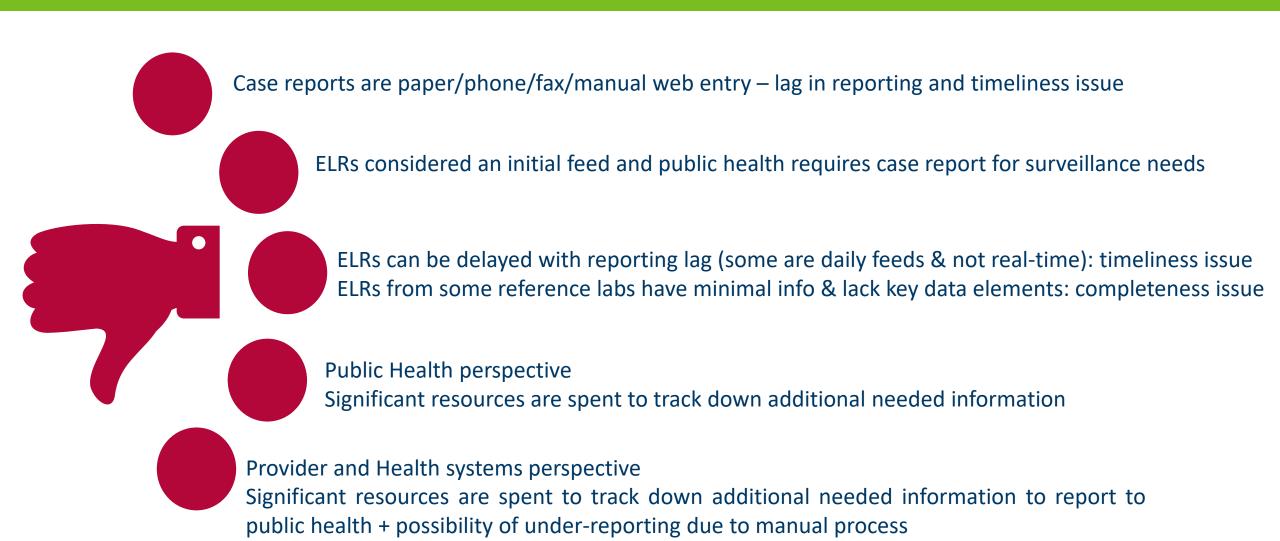
Many infectious diseases are required to be reported to the Minnesota Department of Health [MN Rules 4605.7000 to 4605.7900]

Disease report card (yellow card) is used for most reportable infectious diseases; some diseases require separate form with additional details

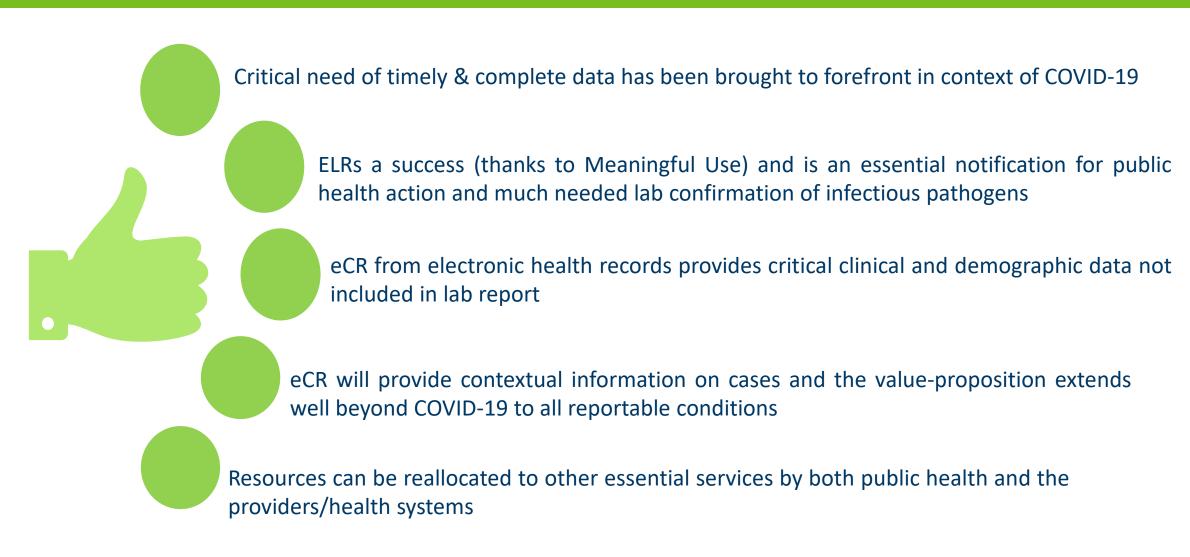
## Minnesota Electronic Disease Surveillance System (MEDSS)

Main information system to support public health disease surveillance in Minnesota Person-centric system and consolidates data receives from various sources for an individual Supports case management, contact tracing and outbreak investigations Receives lab data on reportable conditions; mostly as electronic laboratory reporting (ELR) Receives paper/manual case reports currently; expanding electronic case reporting (eCR)

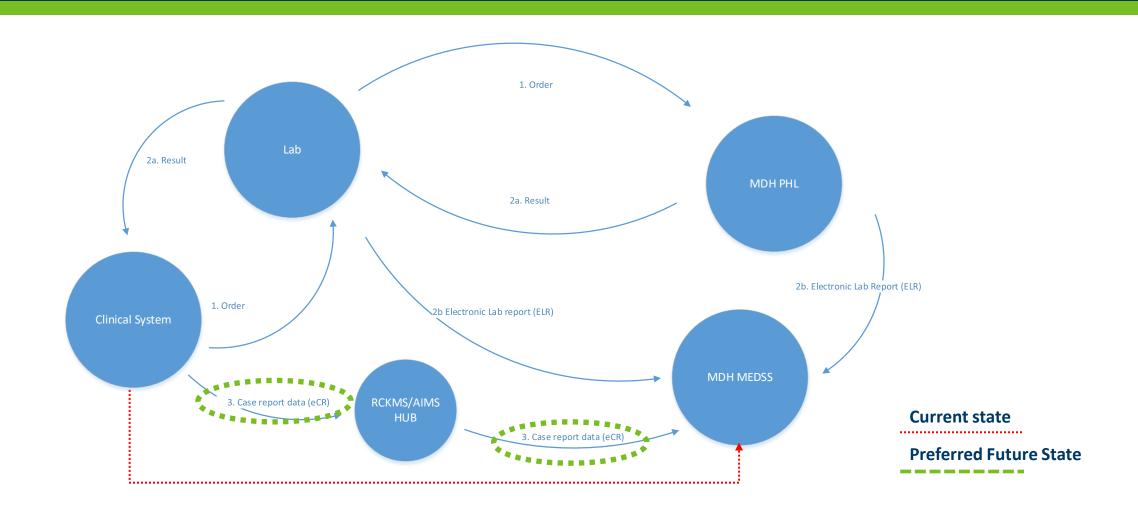
# Current Data Flow from Provider to Public Health Programs for Infectious Disease Surveillance



## **Promise of Electronic Case Reporting (eCR)**



## **Disease Reporting Data Flow**



#### **eCR** Overview

- eCR is a national initiative and collaborative effort of
  - Centers for Disease Control and Prevention (CDC)
  - Association of Public Health Laboratories (APHL)
  - Council of State and Territorial Epidemiologists (CSTE)
- All healthcare providers are required to report certain infectious diseases to the public health agency responsible for their jurisdiction
- Currently the reporting occurs in various formats
  - phone, fax, web-data entry and non-standard electronic flat files
- eCR supports data delivery to public health in real time
  - uses standard codes to automatically trigger the eCR
  - transfers relevant, clinical data to a shared services platform for reporting
- These transactions are standards-based
  - major step towards interoperability in healthcare ecosystem

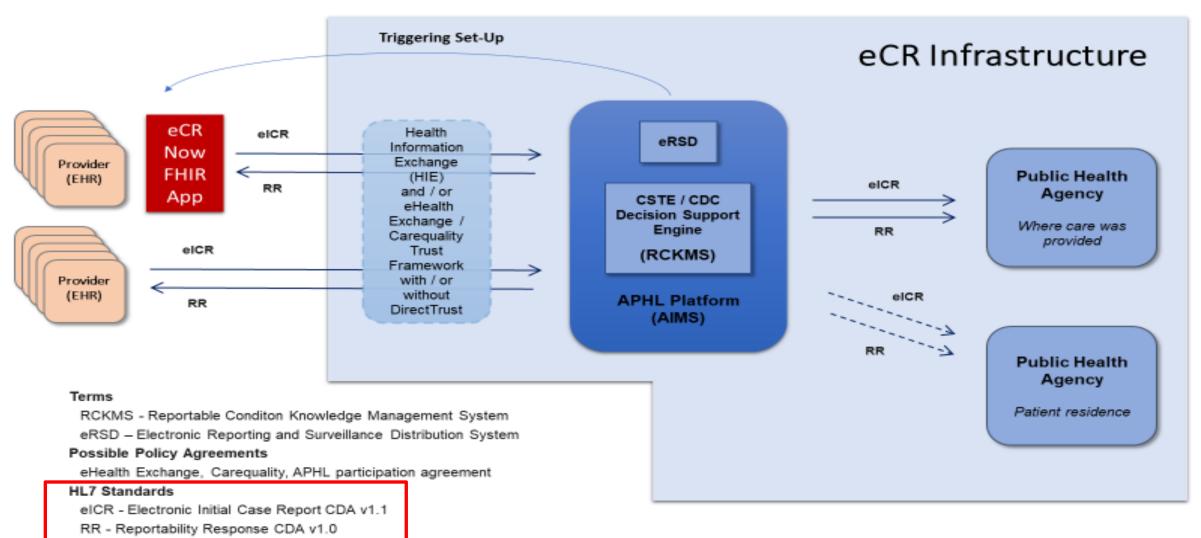
## **Acronyms / Alphabet Soup**

- CDC Centers for Disease Control and Prevention
- APHL Association of Public Health Laboratories
- CSTE Council of State and Territorial Epidemiologists
- MDH Minnesota Department of Health
- EHRs Electronic Health Records
- AIMS APHL Informatics Messaging Services
- RCKMS Reportable Condition Knowledge Management System
- MEDSS Minnesota Electronic Disease Surveillance System
- eRSD Electronic Reporting and Surveillance Distribution System
- eCR Electronic Case Reporting
- RCTC Reportable Condition Trigger Codes
- elCR Electronic Initial Case Report
- RR Reportability Response

**Entities Services and Systems Electronic Transactions** 

15

# eCR Infrastructure Source: eCR Team at CDC and AIMS



#### eCR Standards

#### Exchange standard

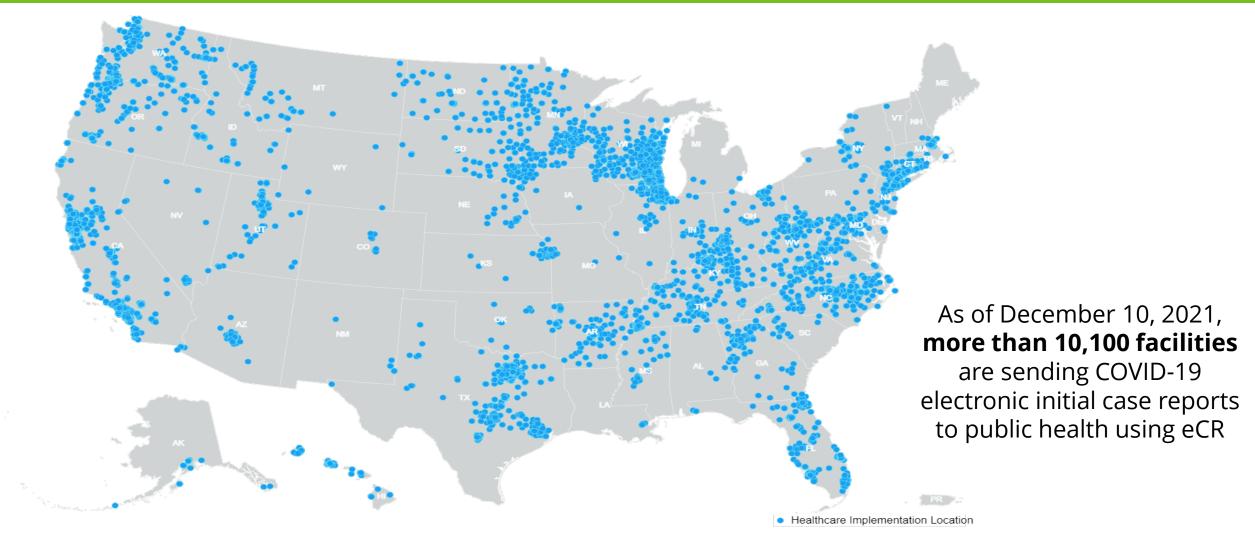
- HL7 document
- HL7 CDA® R2 Implementation Guide: Public Health Case Report, Release 2 US Realm the Electronic Initial Case Report (eICR)

#### Vocabulary standards

- Diagnosis (SNOMED, ICD-10 CM)
- Lab Orders (LOINC)
- Lab Results (SNOMED)
- Lab Result Test Name (LOINC)
- Medication (CVX, RXNORM, SNOMED)

## eCR COVID-19: Location of Reporting Facilities

**Source: eCR Team at CDC and AIMS** 



### eCR @ MDH – Current Status

Connected to AIMS platform and have been receiving COVID-19 data daily

Receive data from other states connected to eCR-AIMS for COVID-19 cases who are MN residents

As of Jan 2022

Incoming electronic eCR data, followed by automatic upload of file into surveillance system since Aug 2020; working on parsing of priority eCR data

eCR thru AIMS is currently the only option supported by MDH to streamline data input

Currently doing outreach to health systems in MN to facilitate eCR on-boarding

Declared readiness for eCRs for all reportable conditions

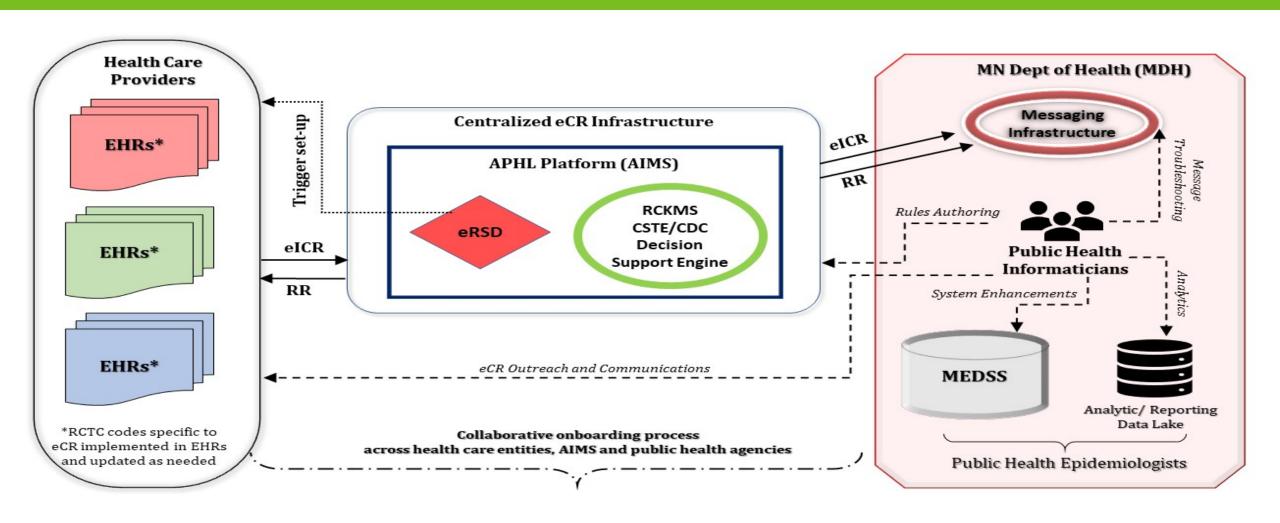
Receiving daily eCR data from 3 FQHCs and 4 major health systems (for COVID-19) 3 more health systems have expressed interest

### eCR Reports @ MDH for COVID-19



Additional MN submitters added:
-Jan, 2021 and Dec, 2021

# eCR Data Flow Minnesota Department of Health (MDH)



## Key Clarifications to Get from your EHR Vendor

- EHR ability to implement trigger codes for COVID and all reportable conditions
- Cost and timeline for implementation
- Ability to receive and review RR in a meaningful way
  - When eCR goes out, an RR is always returned whether it was sent to MDH or no report was required
  - May have additional follow-up information send specimen to MDH
  - Identify a process to know which patients to still report manually



## eCR Onboarding Process with AIMS

- MEDSS eCR team works with health systems and providers in MN along with CDC/AIMS colleagues to elicit interest
- CDC/AIMS eCR Onboarding Team will guide the implementation process
- Cohort-based implementation for Epic EHRs
  - Legal/Policy 3 approaches for healthcare sites to engage the Association of Public Health Laboratories (APHL) with an appropriate HIPAA legal agreement
  - Technical process:
    - Establish AIMS Connectivity for Testing
    - Testing
    - Production go-live process
  - MDH eCR team will be involved all along for support as needed

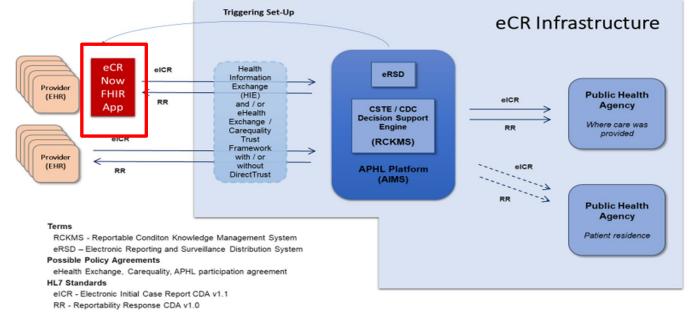
## **APHL Expectations for eCR Onboarding\***

- 1) Technical Requirement: a technical connection to AIMS platform: A or B below
  - A. Direct Secure Messaging (DSM) through a Health Information Service Provider (HISP)
  - B. XDR transaction push through eHealth Exchange Hub to AIMS.
- 2) Policy Requirement: one method for documenting participation agreement: A, B or C below
  - A. Member of Carequality or be associated with as client of 'EHR' vendor in Carequality
  - B. Member of eHealth Exchange path (requires DURSA)
  - C. Sign Business Agreement with APHL for eCR (eCR Participation Agreement)

\*National eCR onboarding team will provide guidance during initial call and regular on-boarding calls once an entity expresses interest in eCR

#### **eCR** Readiness

- MDH has declared readiness to receive all reportable diseases
  - COVID only receiving presently
- Epic EHRs have FastTrack process as part of national onboarding strategy
  - Other EHRs are under consideration as well
- Providers can consider using eCR Now FHIR App for EHRs that are not eCR enabled
  - For more
     info: <a href="https://ecr.aimsplatform.org/general/ecr-now-fhir-app">https://ecr.aimsplatform.org/general/ecr-now-fhir-app</a>



# **Next Steps**



#### Fast track interest in eCR

- Email ecr@cdc.gov with interest to onboard eCR for your organization
  - Include the MDH eCR team in CC field:
    - Ann Kayser, <u>Ann.Kayser@state.mn.us</u>
    - Jacqueline Cassman, <u>Jacqueline.Cassman@state.mn.us</u>
    - Priya Rajamani, <u>Priya.Rajamani@state.mn.us</u>
    - Melinda Hanson, Melinda. Hanson@state.mn.us
- Connect with EHR Vendor on eCR capabilities plan to start implement with COVID eCR and then move to all reportables
- Use the <u>DSI checklist</u> to continue to determine your organizations' public health reporting priorities for implementation and share with DSI (<a href="https://www.health.state.mn.us/data/interoperability/docs/checklist.pdf">https://www.health.state.mn.us/data/interoperability/docs/checklist.pdf</a>)
  - Discuss any barriers or opportunities for electronic implementation with MDH
  - Plan and coordinate MDH public health reporting improvements through DSI and provide feedback to processes



#### **Additional Information: eCR Use Case**

- Electronic Case Reporting (eCR) (https://www.cdc.gov/ecr/index.html)
- COVID-19 Electronic Case Reporting for Public Health Agencies (https://www.cdc.gov/coronavirus/2019-ncov/php/electronic-case-reporting.html)
- What is eCR? (https://ecr.aimsplatform.org/)
- eCR Now for COVID-19 (https://ecr.aimsplatform.org/ecr-for-covid-19-reporting/)
- MDH Electronic Case Reporting (eCR) (https://www.health.state.mn.us/diseases/reportable/medss/ecr.html)

## Q & A





## Thank you.

Webinar materials: **DSI** website

(https://www.health.state.mn.us/data/interoperability/webinar.html)

Further questions: <a href="mailto:health.dsi@state.mn.us">health.dsi@state.mn.us</a>

eCR specific questions: <u>Health.ElectronicDiseaseReporting@state.mn.us</u>

