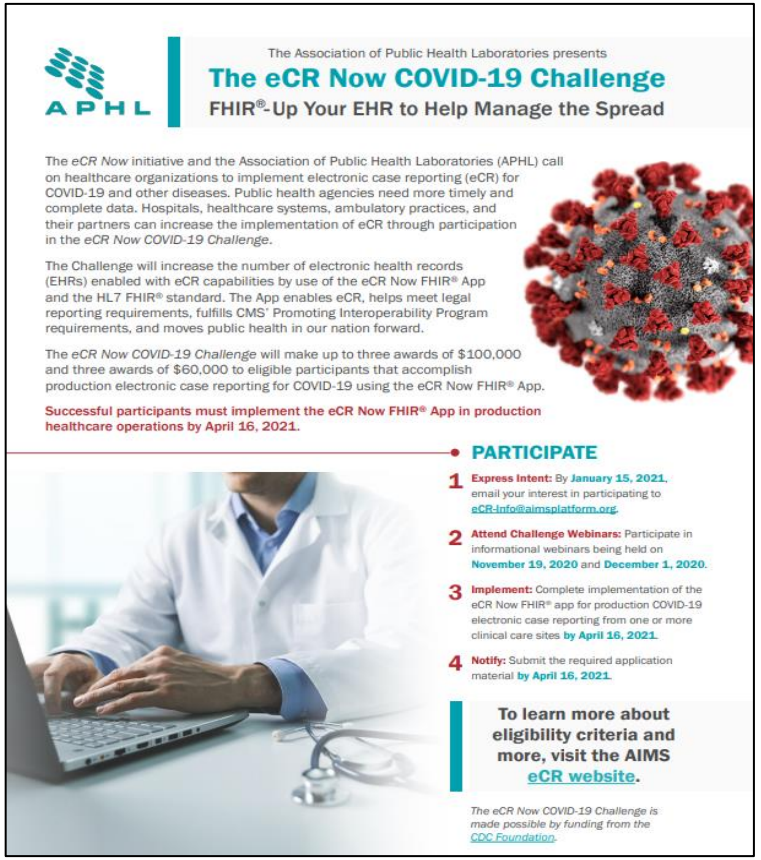
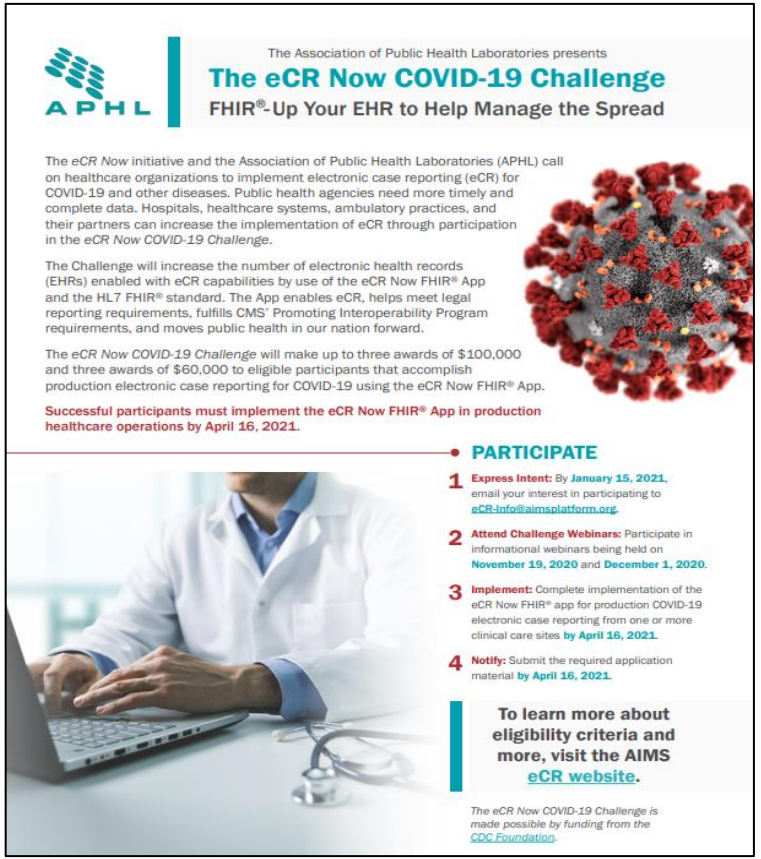
eCR Now
COVID-19 Challenge

This Webinar is Being Recorded



Today's Agenda

- Background on eCR Now
- eCR Now FHIR App
- Goals of the eCR Now COVID-19 Challenge
- Challenge process
  - Challenge requirements
  - Categories and awards
  - Judging criteria
  - Award administration and rules
  - Next steps
- Q and A



Electronic Case Reporting for COVID-19 Now

- eCR is a critical tool for COVID-19 and other reporting needs to **state and local public health agencies**
- **Critical clinical data for outbreak management** include:
  - Patient identity and demographics, co-morbidities, race and ethnicity, occupation, pregnancy status, other clinical data
- There are **many reporting asks**
  - Electronic laboratory reporting (ELR) provides lab results
  - Syndromic surveillance provides anonymized patient data
  - Hospital capacity data are also reported
- **eCR provides the identifiable clinical patient data to state and local public health agencies they need for outbreak management and action**

Electronic Case Reporting for COVID-19 Now

- When COVID-19 began there were **few EHRs with eCR** capabilities. **Public heath agencies were just beginning to implement eCR**. There were **3 eCR trial implementations**.
- One would think an emergency would be the worst time to move a program forward, but it is a public health paradox:
  - Now is when **attention** is focused on public heath
  - Now is when the **resources** are available
  - Now is when providers of care need to be **released from manual reporting** obligations
  - And now is not the time for individual jurisdictions to make unique, **non standards-based data asks** of healthcare organizations
- We need to be sensitive to PHA and Healthcare pressures but do need **more implementations of eCR Now**!

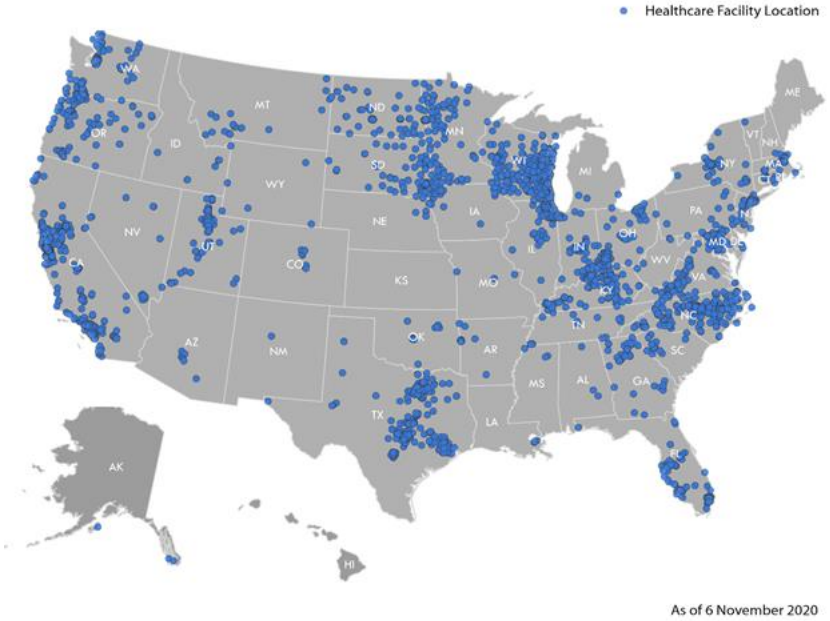
eCR Now Elements

1. Rapid cohort-based COVID-19 eCR implementations for provider sites that have eCR enabled EHRs
2. **An eCR Now FHIR App that other EHRs can use to do electronic case reporting**
3. A nationwide eCR trust framework for eHealth Exchange, Carequality, CommonWell members, and those who connect to them

eCR Now- Element

Cohort-based COVID-19 rapid eCR implementations for provider sites that have eCR enabled EHRs

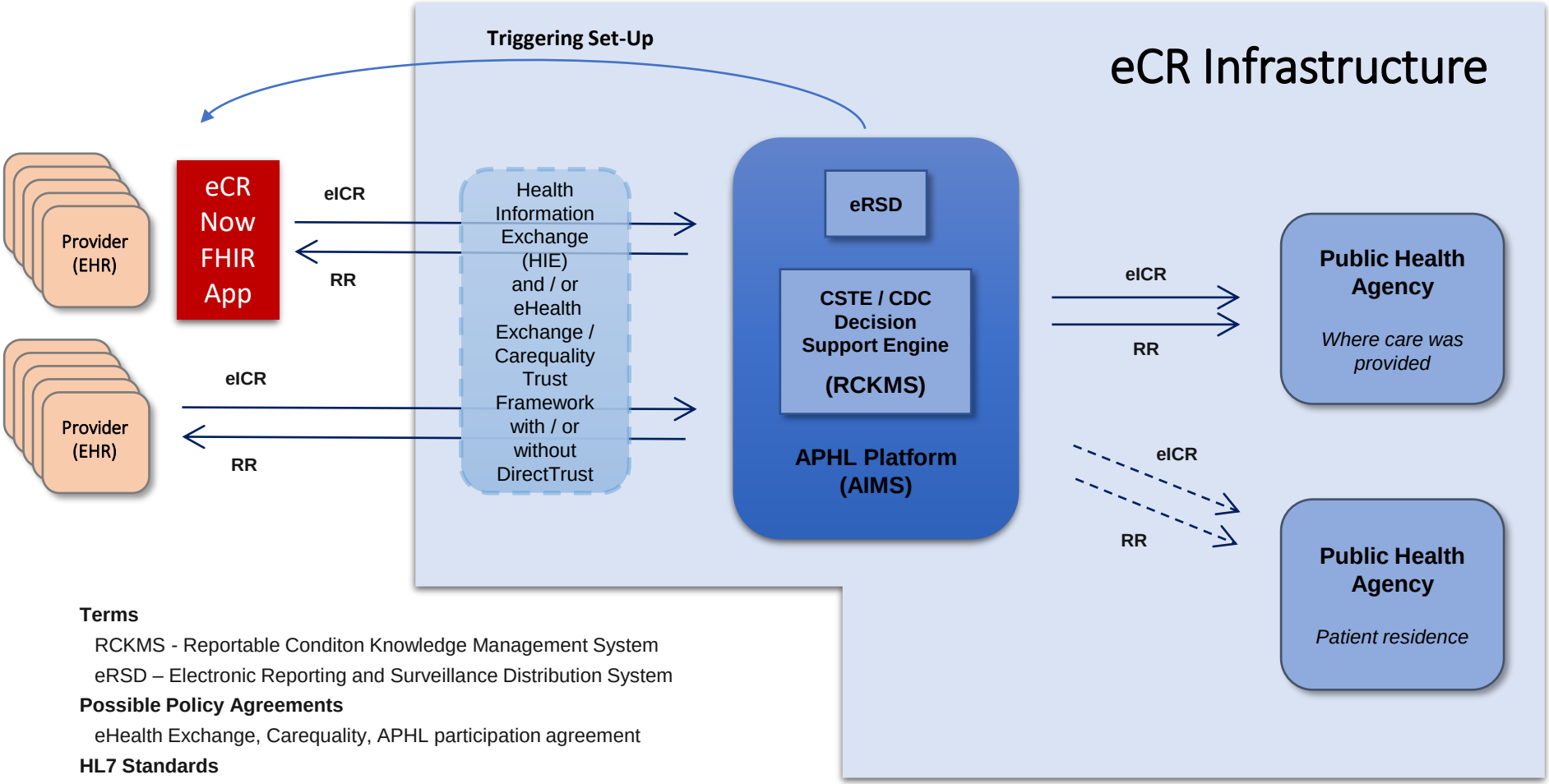
- A **standard ask for patient data** from all jurisdictions implemented in as little as **3-5 days**
- As of **November 6, 6,000+ facilities are doing COVID-19 eCR**
- **3 M+ COVID-19 reports** have been sent to **61 public health agencies**



eCR Now – Element 2

An **eCR Now FHIR App** that other EHRs can use to implement electronic case reporting

- For EHRs that do not otherwise have native eCR capabilities
- Handles triggering and trigger codes, eICR creation, RR sorting, etc.
- Works with EHRs that support the FHIR DSTU2 or R4 APIs
- Several possible implementation models
  - Locally implemented or cloud hosted
  - SMART on FHIR or system app launch
- ecr.aimsplatform.org/ecr-for-covid-19-reporting/ecr-now-fhir-app
  - GitHub site with app and source code
  - Zulip discussion link
- App technical webinar: December 1, 2020, 1 PM (EST)



Terms

RCKMS - Reportable Conditon Knowledge Management System

eRSD – Electronic Reporting and Surveillance Distribution System

Possible Policy Agreements

eHealth Exchange, Carequality, APHL participation agreement

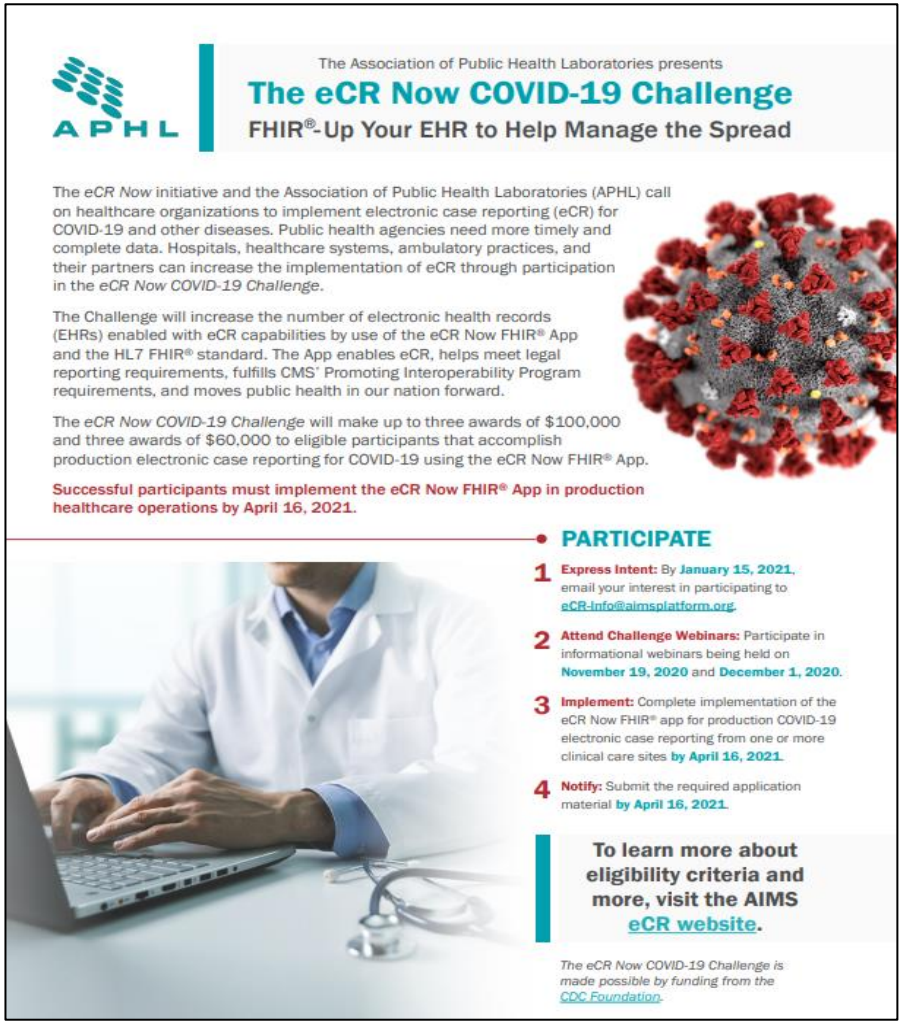
HL7 Standards

eICR - Electronic Initial Case Report CDA v1.1

RR - Reportability Response CDA v1.0

eCR Now COVID-19 Challenge Goals

- Increase the number of EHRs that can do COVID-19 electronic case reporting (eCR) now
- Automate reporting for providers of care and make it faster, more complete, and bidirectional
- For each EHR implemented be able to replicate into more implementations
- Implement infrastructure to do 89+ eCR conditions when advancing out of COVID-19



Many Models and Team Permutations

- Awards can be made to a variety of organization types and teams
- Healthcare organization(s) and EHR vendor(s) will likely need to be engaged somehow
- Award recipient / team member could be:
  - Healthcare organization
  - EHR vendor
  - Health Information Exchange
  - Third party reporting organization
  - Health Center Controlled Network
  - Others…

Challenge Requirements

- Implement production electronic case reporting (eCR) using the eCR Now FHIR® App in one or more healthcare facility(ies)
- Fulfill the eCR Implementation Requirements Checklist.
  - Utilize the App's HL7 electronic initial case reporting (eICR) version 1.1 and Reportability Response 1.0 documents
  - Use the App to submit eICRs to the APHL Informatics Messaging Services (AIMS) platform for confirmation of reportability and delivery to appropriate public health agencies
  - Receive Reportability Responses and deliver the relevant ones to the patient's chart and/or the provider of care
- Demonstrate successful implementation(s) to the Challenge panel

Challenge Categories and Awards

- Hospitals/health systems in the United States and its Territories
  - Up to three awards of $100,000 each
  - APHL anticipates that one of the three awards will go to a hospital or hospitals serving a predominately rural and/or underserved population
- Ambulatory practice(s) in the United States and its Territories
  - Up to three awards of $60,000 each
  - APHL anticipates that one of the three awards will go to an ambulatory provider, or group of ambulatory providers, serving a predominately rural and/or underserved population

Challenge Judging Criteria

- **Breadth of Impact:** The breadth of impact will be evaluated by evidence of:
  - the number of patients and providers that are covered by the new eCR reporting
  - the implementation of eCR in one or more EHR product(s) that have not previously implemented eCR capabilities
  - support for validation of reporting data and meet provider goals for consideration of turning off manual reporting
- **Minimizing Provider Burden:** Minimizing provider burden will be evaluated by evidence of:
  - launching the eCR Now FHIR® App without provider workflow interruption (ideally consistently and invisibly to the provider)
  - minimizing any requirements for manual reporting by launching the app for the full breadth of patient encounters

Challenge Judging Criteria

- **Maximizing Provider Value:** Maximizing provider value will be evaluated by evidence of:
  - delivery of appropriate Reportability Responses (those that identify one or more “reportable” or “may be reportable” condition)
  - delivery to the patient’s record and/or the provider of record and/or appropriate infection control and/or when appropriate administrative reporting staff
- **Policy and Technical Compliance:** Policy and technical compliance will be evaluated by evidence of:
  - completing the eCR requirements checklist

Challenge Award Funding, Administration and Rules

- The Challenge awards are made possible by funding from the CDC Foundation and will be administered by APHL
- All awards are made at the discretion of the Challenge panel and are final
- Only complete application submissions will be considered for an award
- APHL and CDC Foundation employees and their contactors are not eligible for challenge awards

Next Steps

(Details - ecr.aimsplatform.org/ecr-now-covid-19-challenge)

- Attend technical webinar December 1st, 2020, 1 PM (EST)
- Express Intent by January 15th, 2021
- Sandbox test in HL7 FHIR Connectathon January 13th to 15th, 2021 (Optional)
- Complete operational implementation by April 16th, 2021
- Submit Application by midnight April 16th, 2021