Situational Awareness for Novel Epidemic Response

Committee Approval Date: Apr 06, 2020

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Contributing or Reviewing Work Groups: Patient Administration, O&O, Public Health

FHIR Development Project Insight ID: 1617

Scope of coverage: The Situational Awareness for Novel Epidemic Response Implementation Guide enables transmission of high level situational awareness information from initially inpatient facilities to centralized data repositories to support the focus and response to novel influenza-like illness, such as COVID-19.

The goal of publishing this guide is to encourage the creation of a community interested in extremely rapid development of interfaces that can support communication of aggregate patient status and outcome measures, bed, ventilator, and other resource measures, as well as test order and result measures to national, state, or local Public Health agencies/jurisdictions in this time of crisis. This project will focus on current and draft FHIR resources with possible new extensions.

This scope was initially established to address US reporting requirements by FEMA, CDC to address COVID-19. However, other state, local, and additional countries’ jurisdictional reporting needs are expected to be included as well as the project team expands as the pandemic is global. Nor are related or other outbreaks are not excluded from the scope. Other projects that may overlap will be considered as needed.
Proposed IG realm and code: UV

Maintenance Plan: TBA

Short Description: The SANER Implementation Guide enables transmission of high level situational awareness information from inpatient facilities to centralized data repositories to support the treatment of novel influenza-like illness.

Long Description:

The goal of publishing this guide is to encourage the creation of a community interested in extremely rapid development of interfaces that can support communication of essential situation awareness data for consumption by public health.

It is the technical part of a multi-pronged effort to develop a workable, quickly deployable, national approach for situational awareness. The initial short-term goals of this are three fold:

1. Quickly develop a specification that will support communication of essential situation awareness data for consumption by public health.
2. Test the ability of systems to use this specification.
3. Pilot test systems implementing the specification in real world settings.

Involved parties: EHR Vendors, ONC, CMS, HIT Vendors

Expected implementations: EHR, PHR, Health Care IT, Lab, HIS

Content sources: Keith Boone, Josh Mandel, Abagail Watson, Gino Canessa, Michael Donnely, many others

Example Scenarios:
Situational Data Needs of Public Health

Key situational data needed by public health has remained relatively consistent and well established over this time, and is to support awareness of:

1. Local, Regional and National case rates and trends
2. Bed availability for treatment
3. Other resources availability for treatment
   • Staff
   • Medications
   • Immunizations
   • Medical Equipment (e.g., Respirators, N95 Masks)
   • Supplies (e.g., Cleaning Supplies, Facemasks)

IG Relationships: None


FMG Notes