PULSE

Patient Unified Lookup System for Emergencies
Purpose

- Provide disaster healthcare volunteers with access to electronic health information for victims and evacuees during time of large-scale disaster
- Information that may be drawn from disparate systems within and outside of the effected region

Learn more about PULSE at [http://www.ca-hie.org/initiatives/pulse/](http://www.ca-hie.org/initiatives/pulse/)
Workflow

– Used in Alternate Care Facilities (ACF) by disaster healthcare volunteers
– Perhaps only one interaction with the system per patient
  – PULSE does not document care delivery
  – Critical information may be retrieved and used, or printed to become part of a paper record in the ACF
– Two user roles: searching for patient records and reviewing patient records
Key Components

- **DHV (ESAR-VHP)** to provide authentication for authorized licensed health care volunteers using portal

- **Services Registry** to provide information on authorized and participating health systems

- **PULSE Orchestrator** to distribute queries and collect results for users and systems
This is PULSE

Web Portal

DHV (ESAR-VHP)

PULSE orchestrator

Services Registry

EHRs

HIEs

Networks

Provided by EMSA authentication/authorization

Requests

Views

Queries

Documents

Available documents

Matching patients

Queries for documents

Queries for patients

Future

Provided by CTEN

part of trust framework

Provided by PULSE

Disaster Healthcare Volunteers

Providers on their own HIT systems

Provided by Participants

Patient Unified Lookup System for Emergencies (PULSE)
Use cases

Retrieving health information to aid in caring for:

1. Patients evacuated from healthcare facilities in the effected area
2. Injured victims transported by first responders
3. Injured victims transported by themselves, family, or neighbors
4. Walking wounded presenting with minor injuries
5. Evacuees seeking primary care for chronic conditions or health issues unrelated to the disaster
Example scenarios

1. Patients evacuated from healthcare facilities in the effected area

Tasks
- Retrieve a care summary from the facility from which the patient was evacuated
- Retrieve meds, allergies, problems
- Retrieve a recent lab result
Example scenarios

2. Injured victims transported by first responders
3. Injured victims transported by themselves, family, or neighbors

Task Retrieve meds, allergies, problems from any facility within the area of the victim
Example scenarios

4. Walking wounded presenting with minor injuries

Task  Retrieve meds, allergies, immunizations (tetanus) to treat a wound
Example scenarios

5. Evacuees seeking primary care for chronic conditions or health issues unrelated to the disaster

Task   Retrieve meds to fill a prescription