



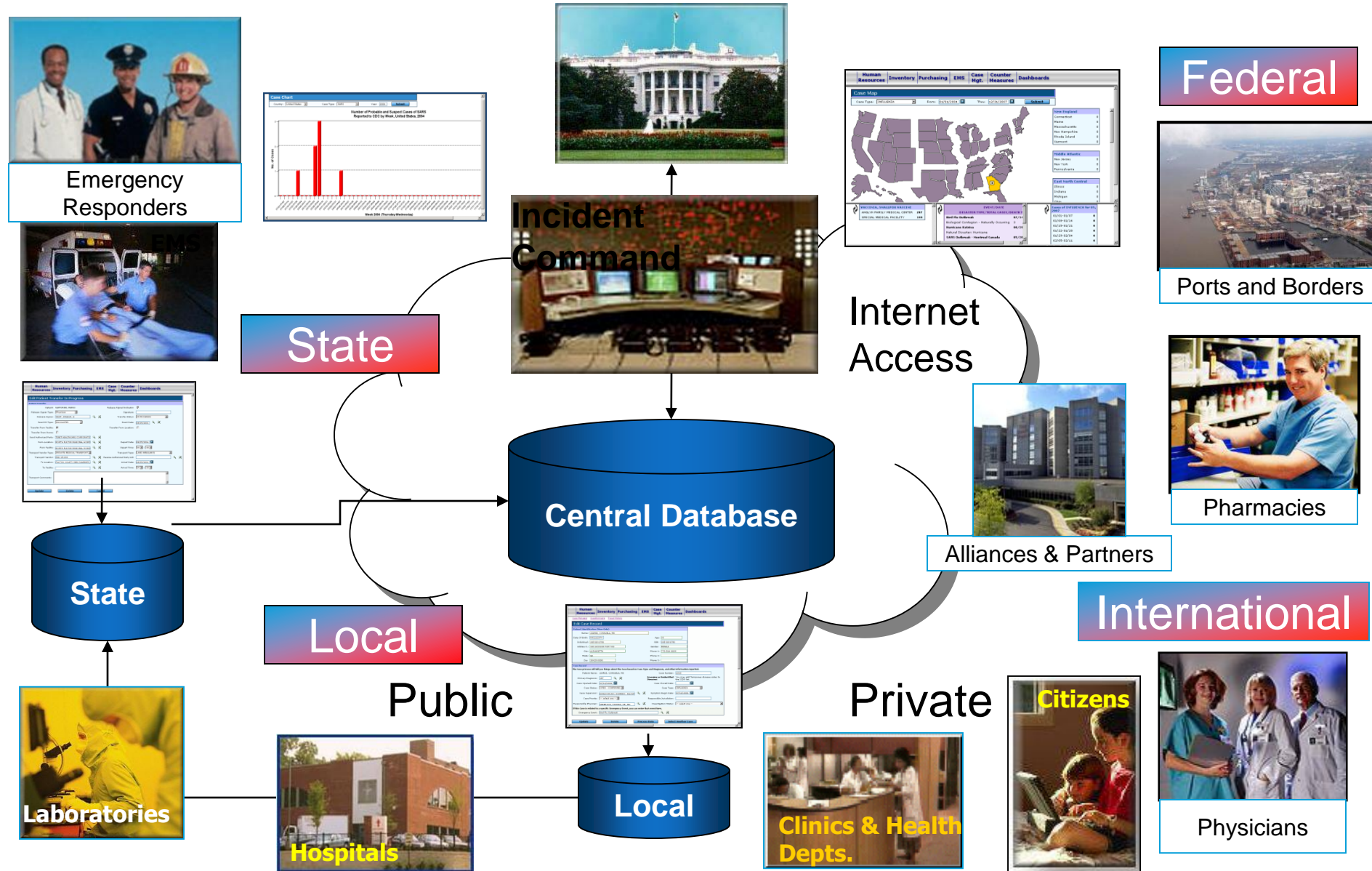
# EPR

## EMERGENCY PREPAREDNESS & RESPONSE

# SYSTEM

“EPR needs a shared cloud-based, comprehensive yet configurable [system](#) that is secure, scalable, and usable now.”

# GOAL: Real-time, Integrated, Coordinated Information

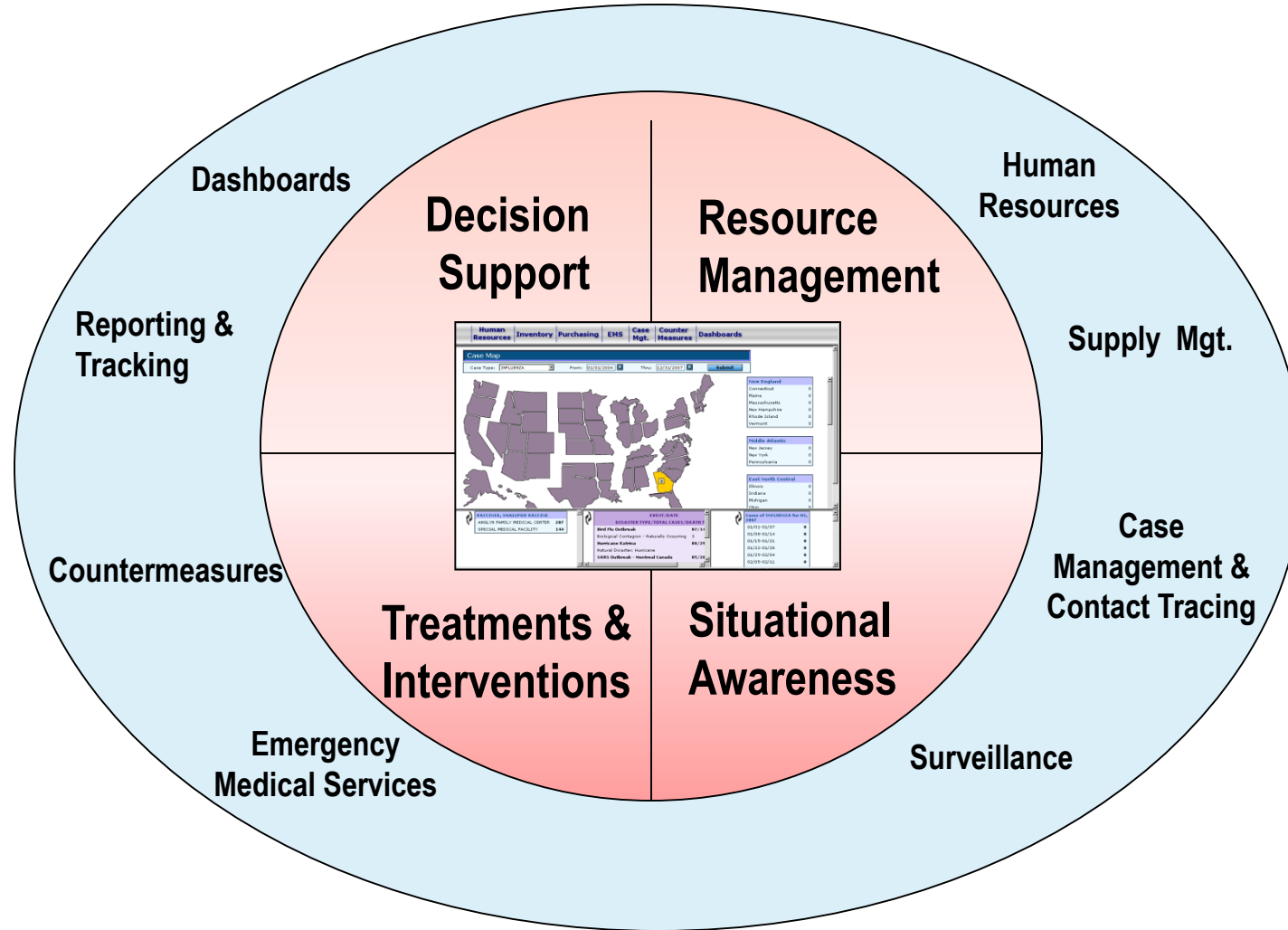


**“Common, replicable database is needed by all participating entities.”**

# EPR System—Configurable Enterprise SaaS Solution for Emergency Events

**Decision Support** module can be configured for reports and graphs including real-time dashboards.

**Treatments & Intervention** module can be configured to aid responders administer and track services (including countermeasures) delivered to ill, exposed, or susceptible individuals including home or facility quarantine, home isolation, remote patient monitoring, mass prophylaxis (prescriptions and immunizations), and patient transport.

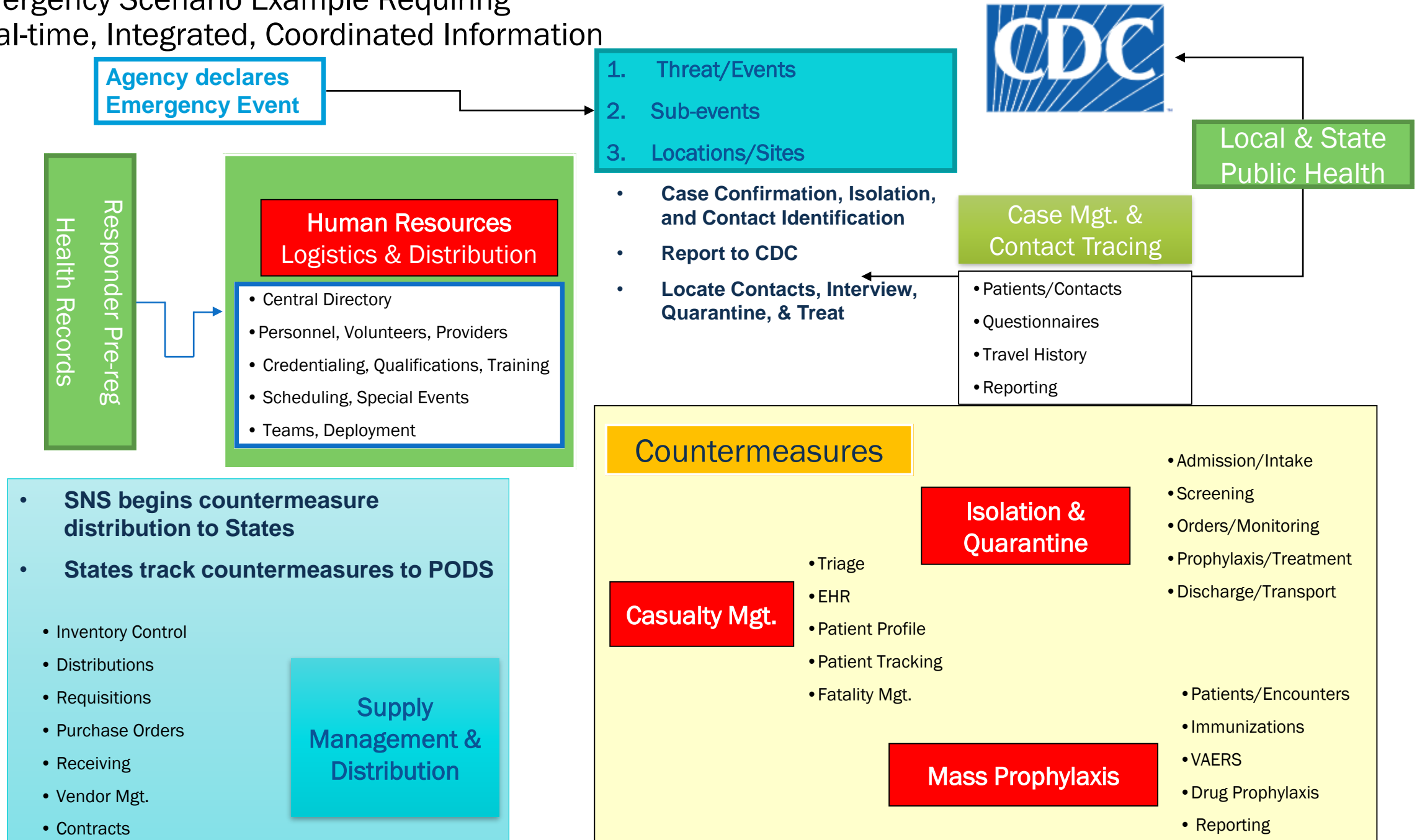


**Resource Management** module can be configured for managing personnel (employees, contractor, and volunteers) and inventories of supplies/equipment (any tangible item). Personnel can be profiled and scheduled with role-based system access. Any tangible item can be profiled and tracked across multiple locations and owners while maintaining chain of custody.

**Situational Awareness** module can be configured for case management of any disease or condition for case investigation, reporting, contact tracing, and surveillance.

**“EPR starts with a simple, secure sign-on through a central directory and navigates to the functions needed.”**

# Emergency Scenario Example Requiring Real-time, Integrated, Coordinated Information



## Human Resources

# Resource Management Workflow Example

### All Personnel

- Multiple Organizations
- Personnel, Employees, Volunteers
- Group, Divisions, Locations
- Demographics
- Resource Type
- Military Record /Status
- Documents/Images

### Provider Credentialing

#### Licenses/Certs

#### Skill Sets

#### Education

#### Health Status

### Resource Scheduling

#### Templates

#### Schedules

#### Time and Attendance

#### Employee Portal

**Edit Provider Health Status Event**

Provider Health Status

Provider: ANDERSON, THOMAS DR., MD

Certifying Provider: ARMSTRONG, WILLIAM

Health Status: EXCELLENT

Verified Indicator: ☐

Status Date: 00/01/2005

**Provider Content Finder** Rows Per Page: 10

1-2 of 2

File Name	Content Category	Content Type	Content Class	Multimedia Type	Description	Event ID	Event ID Type
Blank.docx	IMAGES	Billing	Private	TEXT/DOC/TEXT	SEBQ032C1201870154 Health Status		
Certification.docx	IMAGES			IMAGES/PPS			

### Requisition

- Request for Supplies or Equipment
- If in Inventory, then Distribute
- If not, promote to Purchase Order to acquire Requisitioned items.

### Purchase Order

### Facility

### Distribution

### Shipment

### Facility

### Inventory Control

### Shipment

### Shipment

- Incoming shipments resulting from Purchase Orders to Vendors, are processed through Receiving into Inventory, possibly at central facility or at multiple facilities.

### Order Fulfillment

- Distribution is the movement of Inventory from one Facility to another, internally. -OR- fulfillment of a Customer Order, where distributed out of system to customer

### Usage

- Usage occurs when Items are "used" thru an application process that deducts them from Inventory.
- Examples of Usage are Sale, Used, Theft, Damage

- PO/Customer Order from Outside Parties, becomes Orders and Fulfillment occurs when Inventory is pulled and shipped externally to ordering party.



# Case Management & Contact Tracing Workflow Example

Active  
Surveillance  
Event

Case Record

Contact Tracing

Contact Ring

Travel History

Suspected Exposure –  
Home Quarantine

Suspected Exposure –  
Facility Quarantine

Suspected Case –  
Illness requires Treatment  
Transport to Medical Facility

**Update Contact in Ring**

Contact Information

Case Patient Name: ABBOTT, JACK Case Number: 009

Contact Name: ADAMS, BRIAN Contact Relationship: select one

Type of Contact: Close Contact 0-6 ft. Phone 1: 999-654-9872

Earliest Exposure Date: 05/12/2007 Contact Status: NOT LOCATED

Contact's Employer: ACME MANUFACTURING VENDOR Contact Type Remarks: select one

Military Information

Is the Contact Military Personnel? What Branch Of Service: select one

Stationed where:

Geographical Information: If contact occurred in other than home of Contact or Patient

Contact Location: 123 ROAD ST Contact Location: Address:

Contact Location City: ATLANTA Contact Location State: GEORGIA Contact Location Zip: 30333

Contact Location Country: USA (UNITED STATES) Healthcare Location: ACME LOCATION 1 Healthcare Facility: ACME FACILITY WAREHOUSE

**Add Travel History**

Travel History

Travel can be recorded for any movements the patient has made from the earliest exposure dates, to current time.

Patient: WHATIS, JANE Case Number: 001-126

From Date: 12/24/2020 From Time: 12:00 AM

Thru Date: 12/24/2020 Thru Time: 12:00 AM

Reason For Travel: select one Mode Of Travel: select one

Emergency Event: select one

Flight Number: Airline Public Transport: select one

Destination City: Destination State: select one

Destination Country: select one Destination Zip: select one

**Patient Profile Form: ADAMS, VALERIE**

Individual ID: 2007-00000261 Date Of Birth: 01/01/1955 Age: 64 Gender: F Race: AFRICAN-BLACK

Address: 9876 SPOTTED POINT DR City: ATLANTA State: GA Zip: 30350-0001

Phone 1: 800-986-8745 Phone 2:

**Case Questionnaire**

Case Number: 1235679 Questionnaire Type: INFLUENZA CASE INVESTIGATION

Questionnaire Date: 09/20/2014 Reporter Name: BILMIST, KATHLEEN

**Case Questionnaire Questions/Answers**

Question No.	Question	Answer
1	Temperature	102.3
2	Pain Level and Description	Aching pain, all over, level 7
3	skin	no change

Cases Reported List Rows Per Page: 10

Search Clear Add 1 - 10 of 19

Cases Reported in this list are identified by Patient, and may or may not be related to a specific Emergency Event, such as an outbreak or event of bio-terrorism. You can update and process the cases in this list, by clicking on the link in the first column.

Case Number	Patient Name	Emergency Event Related To	Opened Date	Closed Date	Primary Diagnosis	Case Status	Case Type	Case Supervisor
001-126	WHATIS, JANE		01/10/2007		084	OPEN	INFLUENZA	ABBOTT, JACK
10990	DALTON, JOHN, K		09/18/2006		487.0	OPEN	INFLUENZA	AVILA, ROSA
100-9867	AARON, MYRTLE		09/18/2006		487.0	OPEN	INFLUENZA	WILHOIT, KATHLEEN
1000-236	BRUNO, DELANA		09/07/2006		487.0	OPEN	INFLUENZA	MILTON, MARY ANN
45-632147	MILTON, MIKE, PATIENT		09/02/2006		487	OPEN	ANTHRAX	
2006-10675	APPLE, KAREN, F.		06/20/2006		487	OPEN	INFLUENZA	
2006-01-1235	ADAMS, BRIAN		01/18/2006		V01	OPEN - CONFIRMED	SARS	
1009	ADAMS, BRIAN		01/10/2006		250.01	OPEN	WORKERS COMP	
200601-123456	TYLER, SIMONE, DR.		01/09/2006		079.82	OPEN	SARS	
408	MILTON, MIKE, PATIENT		06/16/2004		840.3	OPEN	WORKERS COMP	

- Enter Cases – for each: Interview Family and Friends, Physicians, listing possible contacts and locations creates Contact Ring.
- Locate Contacts – Record Activities, Notes, status
- Record Recommendations
- Ask for Voluntary Quarantine or Order record Transport record and Authorization

# Quarantine and Isolation Management Workflow Example

Patient Arrival at Quarantine Facility

Patient Confined to Home for Quarantine

**Edit Quarantine Episode Of Care**

Quarantine Admission Data

Patient: BERRY, MKE, F. Location ID: SPECIAL MEDICAL FACILITY Facility: SPECIAL MEDICAL FACILITY Room: 15 Department ID: Floor: Unit:

Referring Physician: ANDERSON, THOMAS, DR, MD Ordering Physician: Supervising Physician:

Primary Diagnosis: Admitting Diagnosis: 487.1 INFLUENZA WITH OTH RESPIRATORY

Admitted On Date: 10/15/2006 Discharged Date: Case Number: 1023 Modified By: Wilhoit, Kathleen Modified Date: 10/15/2006 15:44:26

Update Cancel

Orders Finder

Ordering Provider	Entry Date	Order Date	From Date	Thru Date	Procedure	PDS	TOS	Quantity
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## Registration & Admission

- Prospective Patient Profile
- Face Sheets/Legal Docs
- Admit to quarantine
- Room/Area or Bed Assignment
- Vitals Monitoring
- Decision Support

Patient at Home or Residence monitored remotely by Quarantine Facility

**Modify Patient**

Personal Data

First Name: BERRY, MKE, F. Last Name: BERRY, MKE, F. Address: 1023 BERRY ST, ATLANTA, GA 30309 Phone Number: 404-123-4567 Email: mke.berry@atlanta.com Organization: SPECIAL MEDICAL FACILITY

Save Cancel

## Triage

- Triage Exam Full
- Screenings
- Print Triage Report
- Transport Auth

## Holding Room

## Symptom Room

**Add Triage Exam Results**

Triage Exam Results

Exam Method: Visual Inspection Body Area: head and/or face Exam Results: HIGH FEVER Triage Remark Code:

Save Cancel

"Hot" Exit

**Edit Patient Transfer In Progress**

Patient: BERRY, MKE, F. Release Type: Discharge Transfer Date: 10/15/2006 Transfer Time: 15:44:26 Transfer Location: SPECIAL MEDICAL FACILITY

Save Cancel

Patients transported for treatment

## Patient Transport

**Symptomatic:  
becomes patient**

Healthy  
Exit

**Well Person –  
Discharge from quarantine**

- Interview patients for other contacts. Get Travel History.
- Assign suspected cases to isolation
- Orders-Labs, Tests, Services including food
- Exams - Notes
- Monitoring
- Patient Teaching

**Initial Consult**

**Case Mgt.**

**Daily Monitoring**

**Care-Feeding**

**Education**

Patient Name	Room	Status	Actions
BERRY, MKE, F.	1023	Green	Monitor
ANDERSON, THOMAS, DR, MD	1024	Yellow	Monitor
SMITH, JOHN, D.	1025	Red	Monitor
JONES, SARAH, E.	1026	Green	Monitor
WILSON, MICHAEL, R.	1027	Yellow	Monitor
DAVIS, EMILY, L.	1028	Green	Monitor
MARTIN, ROBERT, A.	1029	Yellow	Monitor
THOMAS, JENNIFER, K.	1030	Green	Monitor

# EPR System Benefits

- Comprehensive enterprise informatics system for EPR
- Configurable functions to support target capabilities
- Supports multiple emergency scenarios and events
- Scalable hosted cloud services, runs on multiple devices
- AI-powered with adaptable knowledge for changes
- Secure and HIPAA compliant with user roles/privileges
- Real-time situational awareness