The Chicago Department of Public Health

Medical Surge and Intelligence Sharing During Planned Events and Emergencies

Elisabeth Weber and Christopher Shields
October 27, 2016
Special Events in Chicago

- Planned events with >100,000 attendees
- Extreme weather, alcohol/drugs, other event activities, and terrorism
  - Public health emergency
  - Potential strain on the healthcare system
- The Chicago Department of Public Health (CDPH) must be ready to organize and direct the operations of public health resources.
**High Profile Events**

**2016 — Maybe the CUBS**  
(unprecedented rated)

**2015 - 2016 — National Football League Draft**  
(SEER rated)

**2013 & 2015 — Chicago Blackhawks Stanley Cups**  
(SEER rated)

**2012 — North Atlantic Treaty Organization Summit**  
(NSSE rated)

**Annual — Chicago Marathon**  
(SEER rated)
Chicago EMS Region 11 Hospitals

EMS Region 11

- Total of 35 Hospitals
- 28 with comprehensive ER’s
- 6 Trauma Level-1 centers
- 2 Children’s hospitals
- 1 Burn centers
- 9000 acute care beds
- 40% of total beds for Illinois

- 125+ Long Term Care facilities
Chicago Healthcare System Coalition for Preparedness & Response (CHSCPR)

**Purpose**: Develop plans to unify, coordinate, and manage emergency planning and response for the healthcare system within in Chicago.

**Membership**: Open to all healthcare organizations in Chicago, and other strategically identified partners who are committed to ensuring the healthcare system is prepared to respond to and recover from all hazards emergencies

- **Full Members**: Acute care and specialty hospitals, local health departments, American Red Cross, CHUG, Salvation Army, other City of Chicago Public Safety Agencies
- **Developing Members**: Long-term Care Facilities, Primary Healthcare Facilities, FQHCs, Mental/Behavioral Health Providers, Specialty Providers (dialysis, urgent care, etc.)
- **Supporting Members**: Private sector organizations such as pharmacies, blood banks, poison control centers, funeral directors associations, other professional organizations
- **Federal Members**: Dept. of Health and Human Services, Dept. of Homeland Security, Dept. of Defense, Veterans Administration, Federal Bureau of Investigation (FBI)
CHSCPR Members

- Cook County Medical Examiner

- IDPH
- CHUG™
- American Red Cross
- Lifesource Chicagoland’s Blood Center
- The Renal Network ESRD Networks 9 & 10
- PREPARE CHICAGO
- Metropolitan Chicago Healthcare Council
- Illinois Primary Health Care Association
Response Structure

Unified Command Structure for Large Scale Disasters or Emergencies
City of Chicago & Chicago Healthcare System Coalition for Preparedness and Response

City Unified Command - EOC

- Logistics
  - Utilities (Com Ed, Peoples Energy)
  - Other City Agencies
  - Office of Emerg Mgmt & Comm

- Planning & Operations
  - Regional Hospital Coord Center
  - CDPH Liaison Officer
  - Chicago Fire/EMS

- Safety & Security
  - Chicago Fire Dept
  - Chicago Police Dept

Chicago Healthcare System Coalition for Preparedness & Response Member Liaison Officer

Internal discussion with other sources of information sharing entities
EMS, Emergency Dept, Incident Command

Multiple members communicating situational awareness
and resource requests to the Chicago Dept of Public Health (CDPH) Hospital Liaison Officer
Chicago Healthcare Dashboard

- Monitor Facility Operational Level of Hospitals in the City of Chicago
- Track Hospital Resources
- Notify Hospitals of Upcoming Events or Emergencies
- Query Hospitals for Available Resources or Patient Surge During Special Events and Emergencies.
Planning for Healthcare Surge During Special Events

CDPH serves as the primary connection between the public health community, healthcare partners, including the RHCC and Emergency Medical Services (EMS), and the Office of Emergency Management and Communications (OEMC). Prior to a planned event, CDPH coordinates planning and information sharing between city and healthcare partners.

- Develop medical surge and ambulance transport plans
- Identifies data to be monitored based on suspected impact of event
  - Key partners: EDs and EMS Coordinators
- Key partners: Healthcare Emergency Managers
- Provide situational awareness on security, weather, and street closures.
- Hosts Citywide EOC
- Identifies data to be monitored based on suspected impact of event
  - Key partners: HealthCare Emergency Managers
Lollapalooza 2016 – Music Festival

• July 28 – 31st
• Grant Park, Chicago, IL
• 100,000 attendees each day
• 85-92 degrees
• Threats:
  • Alcohol, Drug and multi-tox overdoses.
  • Extreme Heat
  • Ongoing threat of small arms attacks/assaults.
Hospital System Monitoring and Data Query

Launched an Special Event Query to monitor patient surge for situational awareness on the types of patients presenting to hospitals from Lollapalooza.

- HAvBED/Bed Availability Report pulled daily at 10:30am

- Data query launched to collect aggregate totals on patients related to Lollapalooza.
  - All Chicago hospitals with emergency departments reported continuously for three days.
How Intelligence is Shared (Locally)
How Intelligence is Shared (Nationally)
Where do we Intersect

Forensic Epidemiology

Law Enforcement

Public Health
How Health Intelligence Drives a Response

1. Chicago EMS Region 11 Regional Hospital Coordination Center (RHCC) identifies increased number of emergency room visits for specific type of patient: **Overdose**

2. RHCC contacts local health authority

3. Local health authority initiates communication streams to Emergency Management, EMS, Police and hospitals – Health Alert Networks
4. Situation report generated (WebEOC™) and incident query submitted to hospitals (EMResource™)

5. Local health authority notifies state health authority for regional response (SIREN)

6. Hospitals begin reporting
Incident Identification Stream

7. Police, Fire/EMS and Emergency Management coordination to initiate GIS map plotting of suspect cases by 9-1-1 call locations

7. Hospitals linked to Police for case follow-ups

8. Media releases initiated

9. Local health authority notifies CDC and HHS of developing incident

10. Local Police notify state and federal partners of developing incident
Incident Identification Stream

11. Regional partners begin reporting suspect cases outside of Chicago; GIS mapping expanded and hospital query extended to multiple adjoining EMS regions

12. Epidemiological Investigation and trend charts developed
Incident Identification Stream

13. *** Media has a story ***

14. Case reporting extending; new GIS map developed

15. Impact query data sharing to local, state and Federal agencies

16. Impact query extended for 10 days to ensure incident is mitigated

More than 70 overdose cases reported on West Side over 72 hours
Incident Identification Stream

17. Statewide Terrorism and Intelligence Center reporting

18. DEA Bulletin released

19. Final Epidemiological Investigation and trend charts released
Incident Identification Stream

20. Final Patient care report released


22. Field Activity Report (FAR) developed
Thank You

Elisabeth Weber, RN, MA, CEN
Project Administrator, Hospital Preparedness Program
Chicago Department of Public Health
elisabeth.weber@cityofchicago.org

Christopher G. Shields, BS, EMT-P
Assistant Commissioner
Chicago Department of Public Health
christopher.shields@cityofchicago.org