

## The Joplin Story-What You Can Learn From It

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## Disclosure

- The speaker's spouse is an employee of Sanofi-Aventis.
- Peer review confirmed there is no conflict of interest due to this relationship in this presentation.

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## Learning Objectives

- Describe the disaster preparedness plan at St. John's Regional Medical Center prior to May 22, 2011
- Review the immediate response
- Identify strategies for re-establishment of pharmacy services
- Describe lessons learned and effect on the current disaster plan

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### St. John's Regional Medical Center

- Licensed for 367 beds
- Average Daily Census
  - 200-215
- Level II Trauma Center
- Certified Chest Pain Center
- Inpatient Psychiatric Facility
- Outpatient Infusion Center
- 36 critical care beds

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### Disaster Preparedness

- Condition Grey Drills
  - Nursing drills utilizing sleds for patient evacuation
- Evacuation Plan
- Alternative Locations Identified
- LEPC (Local Emergency Planning Committee)
  - Both city and state-wide drills
- Patient Safety Committee
  - Safety Leaders
  - Patient Safety Officer within each department

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### Immediate Response

- Execute Condition Grey
- Patient moved to the hallways
- Back-up generators were inoperable
- 183 patients evacuated within 90 minutes
  - Transferred to area hospitals
- Alternative location set up at Memorial Hall
  - Sisters of Mercy utilized local radio station and facebook to communicate with staff
- Incident Command Center established

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### Immediate Response, cont.

- Sisters of Mercy Support
  - Mercy Technology Services
  - Constant communication with regulatory bodies
- ROi Supply Chain

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### Immediate Response Pitfalls

- Removal of medications from automated dispensing cabinet
- Medication supplies
- Communication with staff members
  - Locating and ensuring safety

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### Securing of Medications within the Hospital

- Initially removing only controlled substances from the hospital
  - Main pharmacy and automated dispensing cabinets
- Removal of other essential items
  - Chemotherapy agents
  - Equipment

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### Re-establishment of Pharmacy Services

- Missouri Board of Pharmacy
  - Pharmacy operating procedures during a declared disaster
    - 20 CSR 2220-2.01
- Medication Shipments
- Real Estate
  - Location, location, location

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### Re-establishment of Pharmacy Services cont.

- 60-bed field hospital re-established one week post tornado May 29, 2011
  - Electronic Medical Record
  - Physician Order Entry
  - Automated Dispensing Cabinets
  - Smart Pump Technology

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A Field Hospital  
St. John's Mercy Hospital



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Initial Inpatient Pharmacy



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Current Inpatient Pharmacy



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### Mercy Infusion Clinic

- Establishment of an outpatient infusion clinic
  - Services began June 7, 2011
- Integration of our oncology physicians
- Back-log of 400 patients infusion/chemotherapy patients who required service

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### Mercy Infusion Clinic, cont.

- Licensing
- Clean room installed
- Automated dispensing cabinets
- Smart pump technology
- Electronic medical record
- Chemotherapy agents and supplies

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### Re-establishment of Pharmacy Services, cont.

- On the horizon
  - Inpatient free-standing psychiatric facility
- Relocation of the inpatient pharmacy
  - Johnson Buildings
  - Component Hospital
  - New Hospital

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### Johnson Buildings



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### Temporary Evacuation Plan

- Storage containers
  - Five separate containers
  - Ambulatory patients, visitors, and employees
- Hospital-based day care facility off site
  - Non-ambulatory patients

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### Lessons Learned

- Development of an evacuation kit
  - Easily removed/carried by a pharmacist or technician
  - Includes a set of automated dispensing cabinet keys, as well as which drawers are unlocked by the individual key
  - Listing of pharmacy staff names, phone numbers (cell and home), and home e-mail addresses

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Lessons Learned, cont.

- Evacuation kit supplies
  - Flash lights
  - One set of walkie talkies
  - Medications
    - Both controlled and non-controlled
- Smaller kits also made for each evacuation trailer

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Emergency Evacuation Medication  
Box

Emergency Evacuation Medication Box					
Medication	Quantity	Expiration			
Aspirin 81mg			Glucose 4gm Chewable Tablets		
Albuterol Inhaler			Saline 10 mL Flushes		
Nitroglycerin Sublingual			Cephalexin 500mg Capsules		
Nitroglycerin Spray			Ciprofloxacin 500mg Tablets		
Ketoprofen Oral Tablets			Levofloxacin 750mg Injectable		
Ketorolac 30 mg injectable			Piperacillin/Tazobactam 3.375gm Advantage		
Morphine 5 mg injectable Vials			Vancomycin 1gm Advantage		
Fentanyl 50 mcg injectable Vials			Dermabond/Indermil		
Hydrocodone/Asap 5mg/325mg Tablets			Metronidazole 500mg Bag		
Oxycodone/Asap 5mg/325mg Tablets			Saline Liter Bag		
Acetaminophen 500mg Tablets			Lidocaine 1% MDV Vial		
Ibuprofen 200mg Tablets			Rocophlin 1gm Vial		
Regular Insulin 3mL vial			Haloperidol 5mg injectable Vial		
Alprazolam 0.25mg Tablets			Eprexa Zydo 5mg Tablet		
Lorazepam Injectable Vial					

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Emergency Evacuation Supply Box

Emergency Evacuation Supply Box		
Supply	Quantity	Expiration
Alcohol Swabs		
Insulin Syringes		
3mL Syringes		
Flashlights		
Walkie Talkie		
AA Batteries		
Omnicell Keys		
Legend for Omnicell Key #/Type of Lock		
Disaster Call List for Pharmacy Staff		
Glucose Point of Care Monitor		

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### Lessons learned, cont.

- Medication Inventories
  - Frequency
  - How information is stored
- Staff contact information readily retrievable
- Staff schedules
  - Rotations/Holiday

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### Questions?

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### Learning Objective Questions

1. Keys to successful evacuation of a facility include
  - a. Call tree, personal protective equipment, fire hose inspection
  - b. Evacuation plan, staff education, participation in drills
  - c. P&T plan, large storage of sample medications, pharmacist training as nurse

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### Learning Objective Questions, cont.

2. In a disaster situation, what is one important aspect to have in place?
- a. Clean work area
  - b. Change of clothes
  - c. Alternative forms of communication
  - d. Land line phones

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### Learning Objective Questions, cont.

3. What regulatory bodies do you need to consider when re-establishing pharmacy services?
- a. State Board of Pharmacy, DEA, BNDD, and Joint Commission
  - b. EPA, BNDD, FMEA, ATF
  - c. BNDD, DEA, TSA, FBI

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### Learning Objective Questions, cont.

4. Evacuation plans/disaster management
- a. Should be reviewed with all pharmacy staff on a regular basis
  - b. Should be developed without staff input
  - c. Should be developed within administration only

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