Ebola: Lessons Learned

Satellite Conference and Live Webcast Wednesday, November 5, 2014 10:00 a.m. – 12:00 p.m. Central Time

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Faculty

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October 17, 2014: Sequence of Events

- On this date, phone call received with potential Ebola patient coming to BMCS from local eye clinic
- The sequence of events are as follows:

October 17, 2014: Sequence of Events

- Multiple phone calls from various sources:
 - ADPH
 - Emergency Department
 - Safety Officer
 - (Also called by Montgomery County EMA)

October 17, 2014: Sequence of Events

- Emergency Department called:
 - Director of Emergency Services
 - House Supervisor notified Director of Nursing Inpatient Services
 - -Infection Prevention
 - (Spoke with ADPH)
 - -Safety Officer

October 17, 2014: Sequence of Events

- Director of Nursing Services notified:
 - Nursing Administration
 - Director of Clinical Education
- Infection Prevention
 Coordinator notified:
 - Infectious Disease Physician
 - Infection Prevention Practitioner

October 17, 2014: Sequence of Events

- · Safety Officer notified:
 - -Facilities Management

October 17, 2014: Sequence of Events

- Specified Ebola area was cleared of staff and EVD quarantine area was prepared per previous planning
- Patient was held in the ambulance until quarantine area was ready for patient
- Due to language barrier interpreter was brought in to help with translation

October 17, 2014: Sequence of Events

- EVD Quarantine Area Preparation: Team effort
 - -Negative pressure; Supplies
 - -Room preparation
 - PPE was prepared and kits checked

October 17, 2014: Sequence of Events

- Donning and doffing procedures discussed and practiced
- Site Manager was assigned to be the buddy

October 17, 2014: Sequence of Events

- Patient Transport:
 - EMS brought the patient to designated entrance to facility
 - Transported to the EVD quarantine area by EVD response team members
 - Hallways were not sealed
 - Staff, physicians and visitors were encountered in the hallway

October 17, 2014: Sequence of Events

- Patient Evaluation:
 - Evaluation was completed by Infection Disease and was recorded on the ADPH form
 - Patient was evaluated as negative risk for EVD per CDC screening tool

October 17, 2014: Sequence of Events

- Report to ADPH:
 - -Findings of CDC evaluation tool was discussed with ADPH
 - -Forms were faxed to ADPH for review and clearance of the patient from isolation

October 17, 2014: Sequence of Events

- Clearance from ADPH
- Clearance from Baptist Administration

Lessons Learned

- All staff should be aware of Ebola Plan
- Ebola Virus Disease (EVD) Alert should be activated by Infection Prevention Practitioners after consultation with Infectious Disease
- Incident Command Center should be opened immediately

Lessons Learned

- Implement Phone Tree -EVD Alert Team:
 - IP practitioners to update and provide list to operators manning the hospital incident command center
 - Alert sent via mass communication devices

Lessons Learned Continued...

- Transition of Care (EMS)
 - Ensure transition of care is completed including vital signs
- Hospital Security Involvement and Assignment:

- As soon as the EVD suspect alert is triggered, hospital security needs to block of the route patient will be transferred to the quarantine area
- Determine Ebola Team volunteers

- Ensure EVD Quarantine Area has the following components:
 - Negative pressure boundaries to only include patient room and neighboring room
 - Intercom to eliminate hand off of documentation
 - -Window in doors to view patient

Lessons Learned Continued...

- Camera to monitor staff in room with patient
- Hospital Green Scrubs in all sizes should be readily available and stocked
- Washable shoes in all sizes should be readily available and stocked

Lessons Learned Continued...

- Supplies in Patient Room:
 - Nursing supplies (ER, Floor, Critical Care) bin
 - -Respiratory therapist bin: with supplies for intubation etc if needed
 - Rectal Tubes / Bedside Commode / urinal / emesis basin / bags / all size gloves / tissue / toilet paper

Lessons Learned Continued...

- Vitals: Disposable BP cuff,
 Stethoscope, Temperature,
 Monitor, Electrodes, Etc.
- Hand sanitizer; other patient personal hygiene items
- Environmental services: disposable mops heads etc, disinfectant,
 bleach wipes etc

Lessons Learned Continued...

- Double red bags in special waste receptacle
- Bed with disposable mattress / linens / heating / cooling blanket
- Category A waste containers

- Ebola Cart Location:
 - EVD Quarantine Unit
 - Emergency Department designated triage area:
 - Need Isopod in proximity
- Updated PPE Supplies:
 - Gloves with extended cuff for better coverage

- Impermeable gowns with tie backs (some larger size if available)
- Impermeable hood
- -Long face shield for better coverage
- -Longer shoe / leg cover combo

Lessons Learned Continued...

- PAPR Hood (in some circumstances)
- Rubber gloves (environmental services)

Lessons Learned Continued...

- Identify / Train / Designate Ebola Unit Site Managers
- Have a log book with following information near PPE cart:
 - -Name of HCW
 - -Time in / out of patient room
 - -PPE worn (check off list for each item worn)

Lessons Learned Continued...

- Validation for correct donning and doffing of PPE by site manager
- -Name of Site Manager
- -Name of Buddy
- Documentation in detail of any breach in protocol

Lessons Learned Continued...

- -Immediate notification of any breach in protocol to IP practitioners for discussion with IC director and determine plan of action based on exposure
 - HCW not to be released until assessment of exposure is made

- Copy of Ebola Plan in nursing area (IP practitioners)
- Required PPE list and Donning PPE instructions in PPE cart area
- Doffing PPE instructions in Anteroom

- Food and Nutrition: Disposable cups and trays
 - Ensure staff is well taken care of regarding drinks, snacks, meal arrangement if necessary dependent on the situation
- Patient's personal belongings
 - Who takes possession?
 - Where do we secure them?

Lessons Learned Continued...

- Physician Services:
 - Infectious Diseases Consultation:all EVD cases
 - Hospitalist service will be utilized if patient admission needed
 - ED physician services will be utilized if notification obtained that the patient is unstable

Lessons Learned Continued...

- Critical care services will be utilized if patient intubated
- Plan for transfer of the patient to higher level care, most likely
 Emory after EVD lab confirmation by CDC

Lessons Learned Continued...

- Nursing Services will consist of 1 Site Manager, 1 Med-Surg Nurse, 1 Critical Care Nurse* (*mix of nurses will be determined by severity of patient)
 - Maximum 1 hour in PPE
 - Buddy will help in doffing and then will take over the patient care

Lessons Learned Continued...

- Determine number of hours each shift
- Standardized training for all unit managers, some ED nurses, critical care nurses, floor nurses
- Staff volunteers
- Maximum hour of shifts can be modified based on the clinical condition of the patient

- PPE training:
 - Standardized training with associated competencies
 - Education, IP practitioners
 - Physician group: ED, hospitalist, critical care
 - Nurses group: Phase I unit managers; Phase II - volunteers

- Ancillary services group: select Respiratory therapist / lab personnel (micro)
- Environmental services:select staff

Future Considerations

- ADPH Emergency Preparedness for Community
 - Dissemination of Training to HCW
 - EMS / First Responders
 - Physician Offices
 - Hospitals
 - -Funding

Future Considerations

- Hospital Expenses
 - -Supplies
 - -Staff Pay
 - Appreciation of effort: Rewards for encouragement
- Off site dedicated Infectious Disease Unit