Maintaining Readiness for Emerging Infectious Diseases

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Clinical Professional Development Specialist  
UC Davis Medical Center
An emerging infectious disease is one that has appeared in a population for the first time, or that may have existed previously but is rapidly increasing in incidence or geographic range.

www.who.org
The initial list of disease priorities needing urgent R&D attention comprises: Crimean Congo haemorrhagic fever, Ebola, Marburg, Lassa fever, MERS, Zika, SARS, Nipah and Rift Valley fever.

The list will be reviewed annually or when new diseases emerge.

www.who.org

Top of the List Emerging Infectious Diseases!

Tools for Maintaining Teams

- Building strong partnerships
- Who.org & CDC.gov updates
- 100% Dedicated Training time – not during patient care duties
- Physician & nurse leadership support & ongoing education
- Physician & nurse staff support ongoing education
- Dedicated & committed voluntary team members
- Local public health & emergency management partners
- Administrative & executive sponsorship including financial support
- Grants
- National Ebola Training & Education Center (NETEC)
Tools in Disaster: Mass Notification

**Send Word Now** – Mass Notification System

- Add YOUR work cell & personal cell to **MYHR**
- You can make # NOT public
- If all phone numbers in **MYHR** you will receive Disaster Mass Notification!

Partnerships

UCLA
Stanford University
LA County EMS
LA County Public Health
CDC
NETEC
Kaiser-to-Kaiser collaborations
# Program Update

- LAMC has overseen 4 patients to date:
  - None confirmed EVD
- Coordination with CDPH and CDC on all fronts
- 2 mobile team responses
  - Activated April 5 and Aug. 27, 2015
  - Logistics and cost reductions
  - Community and responder safety
  - New paradigm
- Our future
  - Program operations development through 2019
  - Joint operations review with UCLA Aug. – Sep. 2015
  - Solid training program

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- Matthew Smith, MD, Chief of Emergency Services
- David Silberstein, MD, Pulmonary and Critical Care Medicine
- LAMC Operating Departments
  - EH&S – Program Coordination and Field Support
  - EVS – Waste Handling/Management
  - Engineering – Controls and Infrastructure
  - Infection Prevention – Safety and Disease Containment
  - Security – Exclusion Enforcement
  - Education and Training
  - LAMC Nursing – Scheduling, Clinical Process Management and Team Participation
  - AR&L – Liaison and Regulatory Management
  - LAMC Labor Partners – Front Line Efforts/Engagement
  - Medical Center Leadership – Active Involvement/Continuous Sponsorship
- National EH&S/KP Region Operations
**EBOLA & INFECTIOUS DISEASE DRILLS & EXERCISE**
**SCHEDULE 2016 - 2017**

**ORGANIZER:** KELLY ANDERSON

This schedule will highlight monthly drills & yearly exercises for the Ebola Response Team. Mobile Response Team and team members involved in an activation surrounding an infectious disease response.

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**Practice Makes for Safe Teams**
Ebola Workflow Algorithm

LA County Managed – PCR Positive for EVD

Days 1-3

Day 3: Fever, chills, Myalgias, chills, headache, sore throat

Transferred into Ebola ICU Room – 2 North

3 Doctors, 3 Nurses – 12 hour shifts

Days 4-6

Days 7-14

Fever, Malaise, chills, headache, sore throat, diarrhea, vomiting

Level 3 PPE – 24 hours

3 Doctors, 3 Nurses – 12 hour shifts

Day 15

Recovery

Death

Death

LaMC ED to ICU Transfer – Ebola Decision Algorithm as of 12-4-2015 – Adult

High Risk

Direct Contact with Ebola, Showing Signs or Symptoms, Post Exposure Onset

Request for Ebola Evaluation & Testing

Death or 2 Deaths

Some Risk

Close Contact, Direct contact even with PPE

Access Patient History & Signs & Symptoms

Post Exposure Onset

EBOLA DECISION ALGORITHM as of 12-4-2015 – Adult

Low Risk

Transfer in country with Ebola within 12 days, No Direct contact or Brief contact

Access Patient History & Signs & Symptoms

Traveler in country with Ebola within 21 days, No Direct contact

LaCounty Managed Adult

EBOLA DECISION ALGORITHM as of 12-4-2015 – Adult

Some Risk

Close Contact, Direct contact even with PPE

Access Patient History & Signs & Symptoms

Post Exposure Onset

Outcome:

EBOLA DECISION ALGORITHM as of 12-4-2015 – Adult

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Traveler in country with Ebola within 21 days, No Direct contact

Outcomes:

Death

Recovery

LaMC ED to ICU Transfer – Ebola Decision Algorithm as of 12-4-2015 – Adult
3 Levels of PPE

P P C F

Ambulance
Drop Off Area

Patient/Treatment
Area (ED iso 12/13)

4715 Sunset
Parking Structure

ED Walk-In
Access

ED Surge Area

EBola Response Operations – Full Surge Deployment

ED Walk-In
Access

ED Staff
Pathway

Security Line

Decon
Area

Patient Admit/Treatment
Path to ED Iso 12/13

ED Surge Area

Emergency Department

Staff Entrance
(Closed)

Hospital

Security Checkpoint

EBola Response
Operations – Full Surge Deployment

PPE will be worn at all times within this area

*Hot Zone

*PPE will be worn at all times within this area

Patient/Treatment
Area (ED iso 12/13)

ED Surge Area

Security Line

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*PPE will be worn at all times within this area
Los Angeles Medical Center Prepares for Emerging
KP LAMC Emerging Infectious Diseases Response Program

kelly.m.anderson@kp.org  (323) 217-7883

Preparing for Emergencies
Emerging Infectious Disease Response Team

Karrin Dunbar, RN, BSN, MS
Conflict of Interest

- I have no conflict of interest and will not be discussing any off-label products

Objectives

- Describe methods to cultivate a hybrid emergency response team
- Review modalities to maintain team competency
- Evaluate critical resources to transform teams
History

- With the worldwide panic of Ebola, a team was assembled to treat any potential patients
- As the outbreak subsided, concern turned towards the potential of other infectious disease emergencies

Emerging Infectious Disease Response Team (EIDRT)

- Cultivated from the volunteer Ebola team
- Is a highly specialized care team to meet the need should a patient with a highly infectious disease arrive in our hospital
- The goal of EIDRT is to ensure staff safety, maintain competency and be prepared for the next infectious disease
Team Training Partners

- Infectious disease department
- Nursing education
- Team members

Infection Prevention

- Content experts
- Provide curriculum to advance knowledge of a variety of infectious diseases
Nursing Education

- Simulation Professionals
- Create scenarios from Infection Prevention content
- Construct an environment for the team practice and become proficient

EIDRT Training Program

- Rigorous training program to educate and expose the team to high risk low volume events in a safe protected environment
- Components
  - Didactic
  - Simulation
  - Deliberate practice
Lecture Series Courses

- Hemorrhagic Fevers Lecture
  - Ebola
  - Lassa
  - Marburg

- Vector Borne Illness Lecture
  - West Nile
  - Dengue
  - Chikungunya
  - Malaria

- Respiratory Illness Lecture
  - SARS
  - MERS
  - "Bird flu"
  - "Swine flu"

- Outbreaks Lecture
  - Norovirus
  - Pertussis
  - Chicken pox
  - Measles

2016 EIDRT TRAINING
EMERGING INFECTIOUS DISEASE RESPONSE TEAM

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<tr>
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<th>Event</th>
<th>Time</th>
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- Dates for the year
  - Topics
  - Location
  - Course numbers
  - Times
Lecture Series Objectives

- Define Emerging Infectious Disease
- Identify the cause of diseases
- Explain similarities and differences between diseases
- Describe isolation precautions needed for diseases

Class Agenda

Introductions – Review of the Day – Team Update

Assess illness prevalence
- State, Community, Globally
- Transmission, Signs and symptoms, Treatment, Patient care, Isolation precautions
- Group discussion similarities and differences of diseases
EIDRT Quick Guide

Creation and Update of Guide

• Isolation – Type
• Personal Protective Equipment (PPE) – Type
• Transmission – Method

Emerging Infectious Disease Quick Guide 2016

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Skills

- Proficiency and competency perfected
  - Simulation
  - Deliberate practice

Simulation

Organize and practice nursing care for patients in a simulated environment
- Accurate selection of PPE
- Safely don and doff PPE
- Provide appropriate nursing care for specific disease
Team Cohesiveness and Commitment

- EIDRT hospital website
- Communication
- Connectivity
- Team pride
University of California Davis Medical Center

Emerging Infectious Disease RESPONSE TEAM

"Disease-causing microbes have threatened human health for centuries... This threat will likely continue and may even increase in the coming years." So begins the preface of Medicine's 1992 report on Emerging Infectious Diseases (EIDs). This report not only describes the key elements responsible for the emergence of infectious diseases, it also provides recommendations that should guide all the United States over the past 20 years, at a time when we are at a time of great change in which both the challenges of EIDs and our responses to them are being transformed.

Through the hard work of nurses, doctors, laboratory specialists and other ancillary staff, UCDCM was able to rapidly develop a comprehensive program and specialized unit to diagnose and treat patients with Ebola and become one of the first Ebola Treatment Facilities in the west coast.

CONTACT INFO
KAREN ROBERTS, R.N., M.S.N.
NURSE MANAGER
karen.roberts@ucdmc.ucd.edu

Now, with control efforts getting a handle on the outbreak in West Africa, it is time to turn our attention to other infectious diseases that may threaten to become the next deadly outbreak. An Emerging Infectious Disease is an infectious disease that has newly appeared in a population or one that has been known for some time but is rapidly increasing in incidence or geographic range. These include but are not limited to Ebola and other viral hemorrhagic fevers (Lassa fever and Marburg Virus), SARS, MERS, HIV and H1N1. While some of these diseases are now well known and controllable with Standard Precautions, others, like Ebola require a specialized team with advanced training to provide care.
Highlight Team Members

Nurses Making a Difference

Paige Sisk BSN, RN

Home Unit: SICU
Specialty Certifications: TNCC, ATCN
Years at UCDMC: 11

Fun Fact: Paige loves to travel. She has visited South America, North America, Europe and Africa. Her favorite activity is long walks on the beach listening to Kenny G.

Become A Member

What can YOU do?

If you are interested in joining the Emerging Infectious Disease Response Team (EIDRT) please click on the link below to submit an interest form.

Become a Team member of the Response Team now!
Fill out the (PDF) form today
Emerging Infectious Disease - Response Team (EIDRT)
Volunteer Now!

Name:
Email Address:
Contact Phone #:
Specialty Certification:
Department:
Shift:
FU/PI:
Additional Comments:

Submit

Thank you for volunteering.

Emailed to Manager & Education Coordinator

Next Steps

At UC Davis, the Ebola Care Team is being molded into the new Emerging Infectious Disease Response Team (EIDRT). This is a team of dedicated nurses, laboratory technicians, radiology technicians, and support staff that is trained to respond when a patient with a novel, or unknown infectious disease is identified. This team is highly trained in the use of extensive Personal Protective Equipment (PPE), specialized care functions, and communication techniques. The EIDRT is responsible for attending drills and practice sessions monthly to maintain competency in these skills. They will be the team caring for any patient admitted with a disease requiring special precautions, such as Ebola.
UCDHS has cultivated a team that has advanced skills, developed safe procedures and processes, and maintained competency to care for a variety of potential infectious patients.

Karrin Dunbar, RN, BSN, MS  
kkdunbar@ucdavis.edu  
916-734-9691
Questions?