

# The BC Biocontainment Treatment Unit at Surrey Memorial Hospital

Past, Present, and Future

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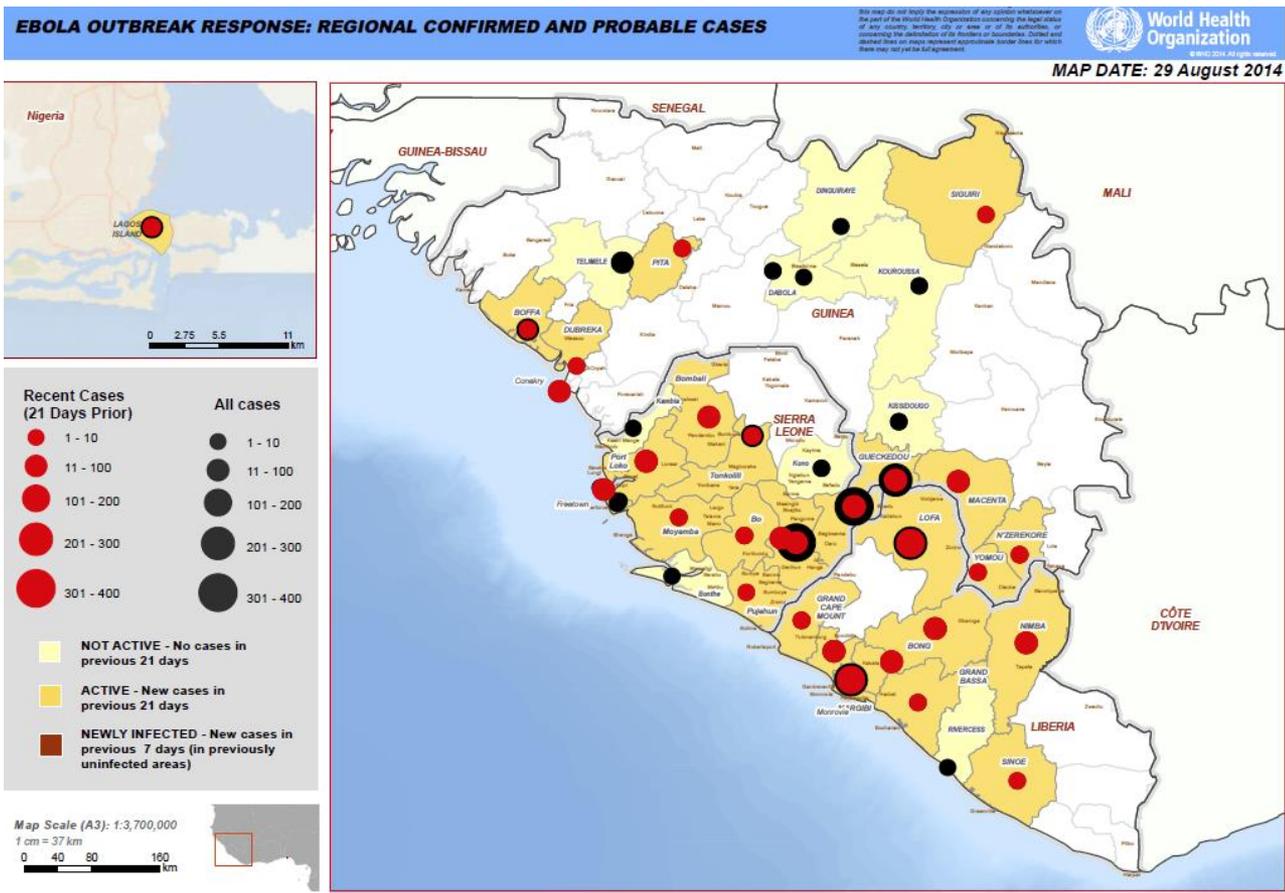
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# West Africa -late August 2014: Ebola Viral Disease (EVD) Outbreak



- **Fraser Health Authority & Infection Control**
  - began preparing for possibility of an EVD patient requiring management at one of their acute care facilities.
  
- **The challenge for all HA's –**
  - Ensuring safety of staff and public while planning with various agencies and jurisdictions.

# Then...Ebola in North America



October 12, 2014





# SMH November 2014



## **Surrey Memorial Hospital -**

- was designated by BC Ministry of Health as the provincial Level 3 site for adult suspect/confirmed cases of EVD
- Decision was based on SMH's new, state-of-the-art Critical Care Tower and the level of care provided by its staff.

# Development of Team-

## A true interdisciplinary approach

- Infection Control
- RN's, Charge nurses
- Workplace Health
- Respiratory Therapy
- Intensivists, Medical Health Officers
- Infectious Disease Specialists
- Critical Care CNEs
- Laboratory & Medical Imaging
- Medical Device Reprocessing
- HSSBC – Supply chain
- Environmental Services
- Ebola Team Manager
- Emergency Leadership
- Site Leadership
- Building (P3) Management
- Executive EOC Leadership



# Overall Key Priorities



- Priority was on healthcare worker and public safety while providing excellent care to those affected by EVD
  - planning and prep overseen by and in adherence to ministry and FH EOC guidelines, policies and procedures
  - Ethical concerns addressed when questions from team members arose: ethicist consulted and public health involved too.

### BC Biocontainment Treatment Unit at SMH

- Practice sessions for donning and doffing the 2 levels of gear... *also at Children's Hospital*
  - In-room Health Care worker: PAPR unit, harness with hood, full coverall, rubber boots, 2 pair extended cuff gloves.
  - Doffing Assistant: surgical mask, full-face visor, impervious surgical gown, foot/lower leg coverings, 2 pair extended cuff gloves.

- **Education & Simulation days for Core Team members**
  - Multidisciplinary: clinical and IPC staff
  - Adult and peds both
  - Four times yearly - review of both safety and patient care procedures
  - Chance to be in full gear for patient simulation scenarios – as Health Care worker and/or doffing assistant

# Simulation Education

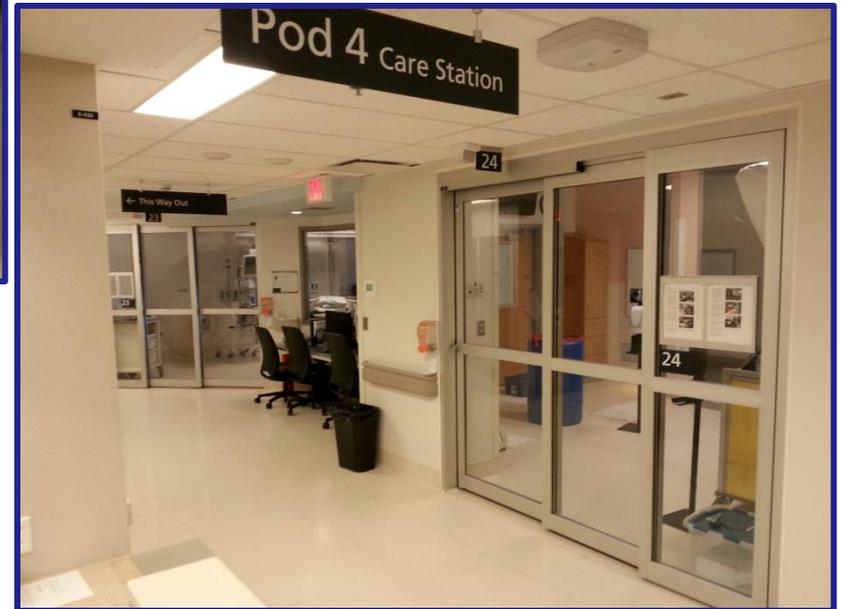


**Inside Patient room – Insertion of Central line by physician and two RN's**





**Entry – Anteroom & Patient Room**



**Patient Room in background with adjoining warm room**



## **New warm room – previous patient room**

- Connecting door, glass observation area for Trained Observer and other staff
- Space for equipment e.g. Portable x-ray machine, blue waste drums



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## Temporary “warm room” on the HAU

Built for Ebola response

Can be re-mounted if required

- Constructed around sliding glass exit door, sealed, tied into HVAC
- Note glass insert for Trained Observer to instruct and observe staff
- This area for the doffing assistant & first wiping of items for re-processing

# **BC Biocontainment Treatment Unit**

**...as we move into the Future**



Office of the  
Provincial Health Officer

## Provincial Ebola Virus Disease Report on the Action Review

August 24, 2015



# Armed with Knowledge

## Provincial Ebola Virus Disease Report on the Action Review

# Key Themes to carry forward



- Strong leadership, high levels of accountability and staff dedication have been essential to the success of this work.
- The task force structure was effective
- An enormous amount of collaborative work has been accomplished and is relevant for other communicable disease outbreak risks.
- The level of readiness achieved should be embedded and sustained in the B.C. health system, including the EVD unit, equipment and realistic training levels.
- The province should build on this and previous communicable disease experience to develop an integrated outbreak readiness and response plan under the direction of the provincial health officer.

[http://fhpulse/security\\_and\\_emergency\\_management/emergency\\_management/Documents/Ebola/103%20EVD-Report-Action-Review%20Final%20\(2\).pdf](http://fhpulse/security_and_emergency_management/emergency_management/Documents/Ebola/103%20EVD-Report-Action-Review%20Final%20(2).pdf)

# Ongoing...



- The Health Authorities will be working with government and agencies to plan for provision of care as required...
- **...for children, youth, and adults infected with rare or novel pathogens, both emerging and re-emerging, that require biocontainment**
- Continue staff training & education days for Core teams together for both adult and pediatric population
- Ensure PPE practice sessions are regularly scheduled at both Surrey Memorial and Children's Hospital
- Maintain the BC BTU space / rooms for readiness

# Discussion and Questions