

# Ebola

14 October, 2014



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## National Case Definition: Ebola Virus Disease (EVD)

For surveillance purposes, a person with EVD-compatible symptoms is defined as an individual presenting with fever of  $\geq 38.6$  degrees Celsius **AND** at least one of the following additional symptoms/signs:

- malaise
- myalgia
- severe headache
- conjunctival injection
- pharyngitis
- abdominal pain
- vomiting
- diarrhea that can be bloody
- bleeding not related to injury (e.g., petechiae, ecchymosis, epistaxis)
- unexplained hemorrhage
- erythematous maculopapular rash on the trunk

### Person Under investigation (PUI)

A person with EVD-compatible symptoms (as defined above) not attributed to another medical condition **AND** at least one of the following **epidemiologic risk factors** within the 21 days before the onset of symptoms:

- Residence in or travel to an area where EVD transmission is active<sup>1</sup>
- **Healthcare worker (HCW)**<sup>2</sup> **wearing personal protective equipment (PPE)** and adhering to appropriate infection prevention and control precautions with no safety breaches, who directly or indirectly cared for a probable or confirmed case of EVD (e.g. direct patient care or contact with environment or fomites of a case)
- Other patient or visitor without high risk exposures, as defined below, who spent time in a healthcare facility where probable or confirmed cases of EVD are being treated
- Household member of a probable or confirmed case of EVD without high-risk exposures, as defined below
- Laboratory worker processing body fluids of probable or confirmed cases of EVD with appropriate PPE and standard biosafety precautions and no safety breaches
- Direct exposure to human remains (e.g. through participation in funeral or burial rites) in a geographic area where the outbreak is occurring with appropriate PPE and no safety breaches
- Direct unprotected contact with bats or primates from EVD-affected country

### Probable Case

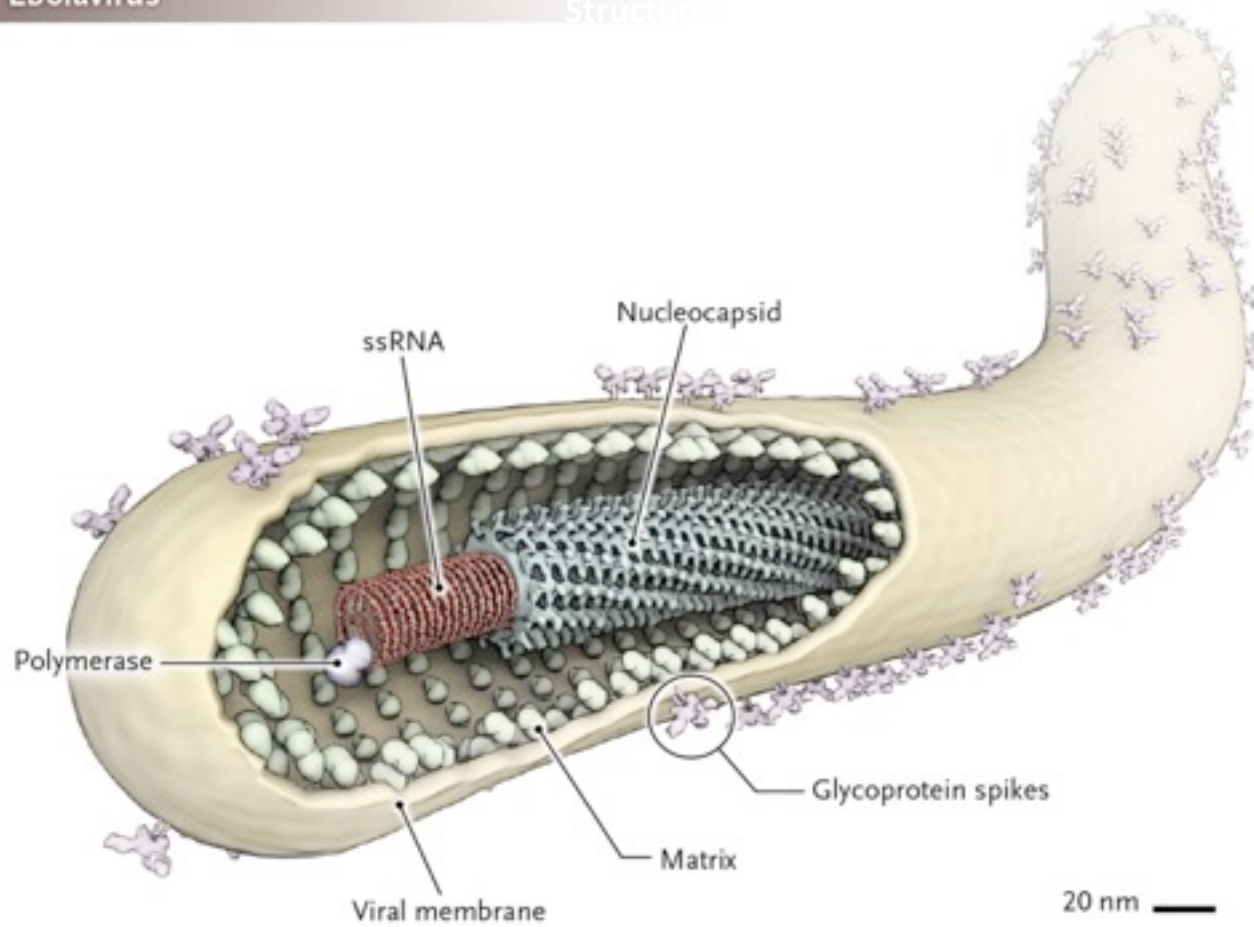
MSF Staff Members Lead a Young Patient with Suspected Ebola into the Case-Management Center.



Wolz A. N Engl J Med 2014;371:1081-1083.



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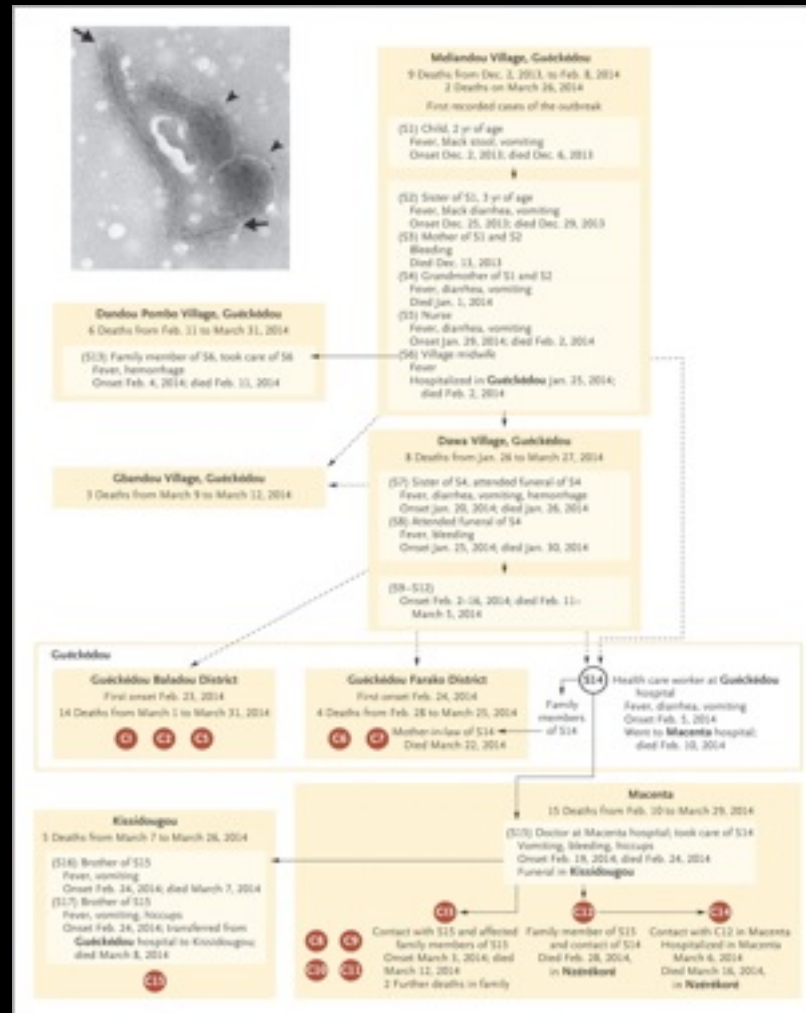


Feldmann H. N Engl J Med 2014;371:1375-1378.



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# Transmission Chains in the Outbreak of Ebola Virus Disease in Guinea.



Baize S et al. N Engl J Med 2014;371:1418-1425.



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Map of Guinea Showing Initial Locations of the Outbreak of Ebola Virus Disease.

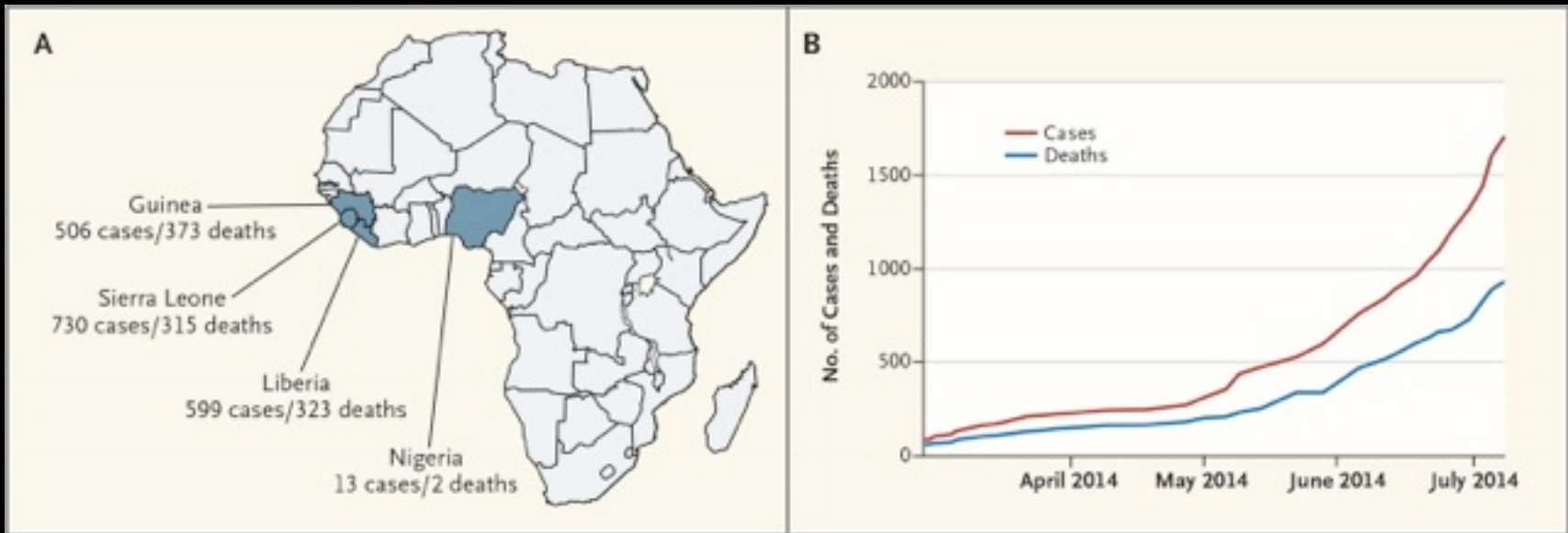


Baize S et al. N Engl J Med 2014;371:1418-1425.



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**Ebola Virus Cases and Deaths in West Africa (Guinea, Liberia, Nigeria, and Sierra Leone), as of August 11, 2014 (Panel A), and Over Time (Panel B).**

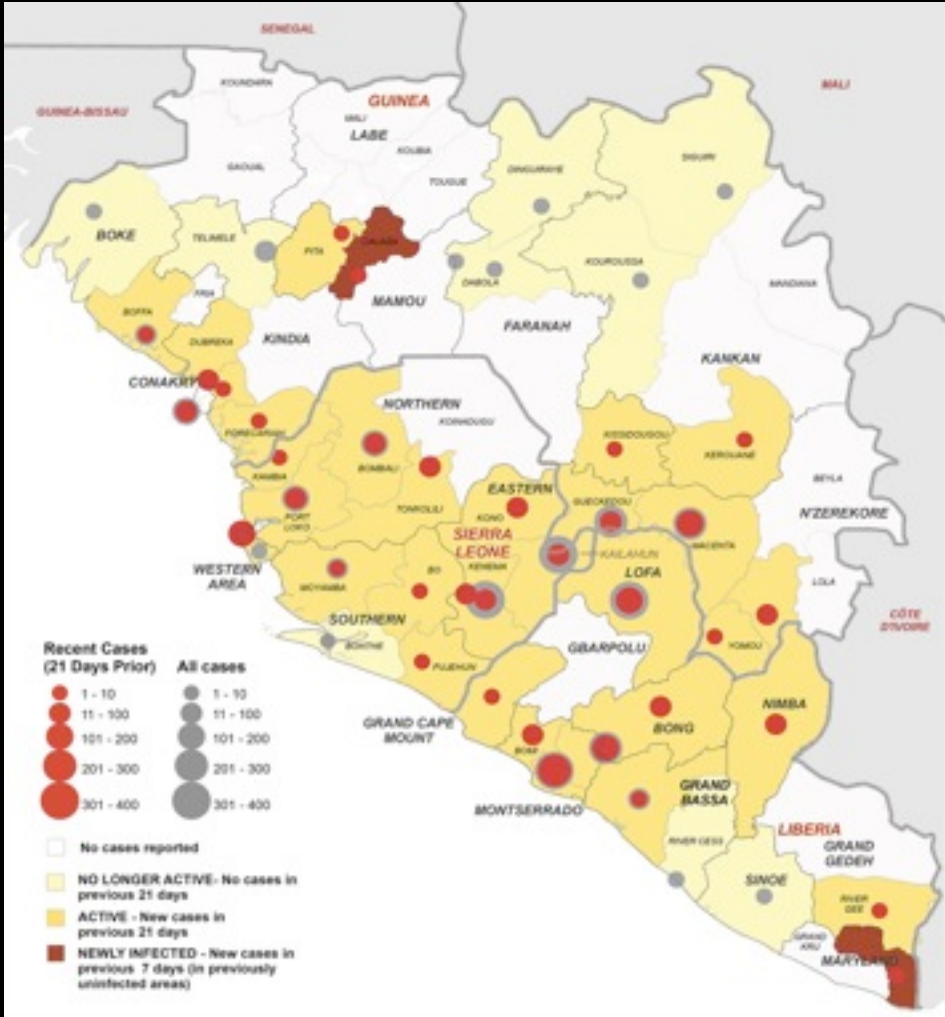


Fauci AS. N Engl J Med 2014;371:1084-1086.



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# Districts Affected by Ebola Virus Disease in Three Countries in Africa.

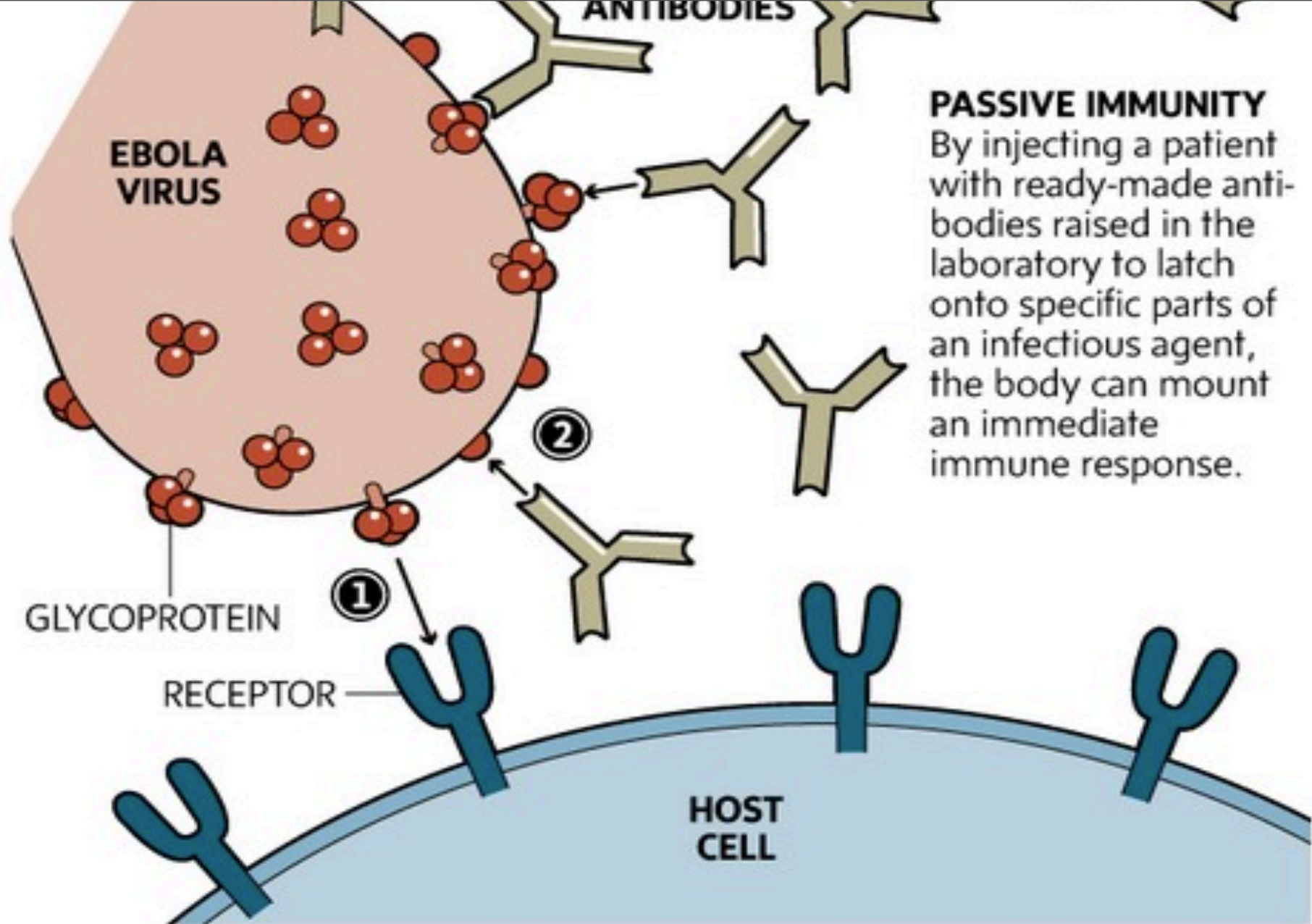


WHO Ebola Response Team. N Engl J Med 2014. DOI: 10.1056/NEJMoa1411100



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① On a basic level, the Ebola virus is covered in glycoprotein that lock

② The principle of the ZMapp three-antibody cocktail is to provide

# Dr. Brantly

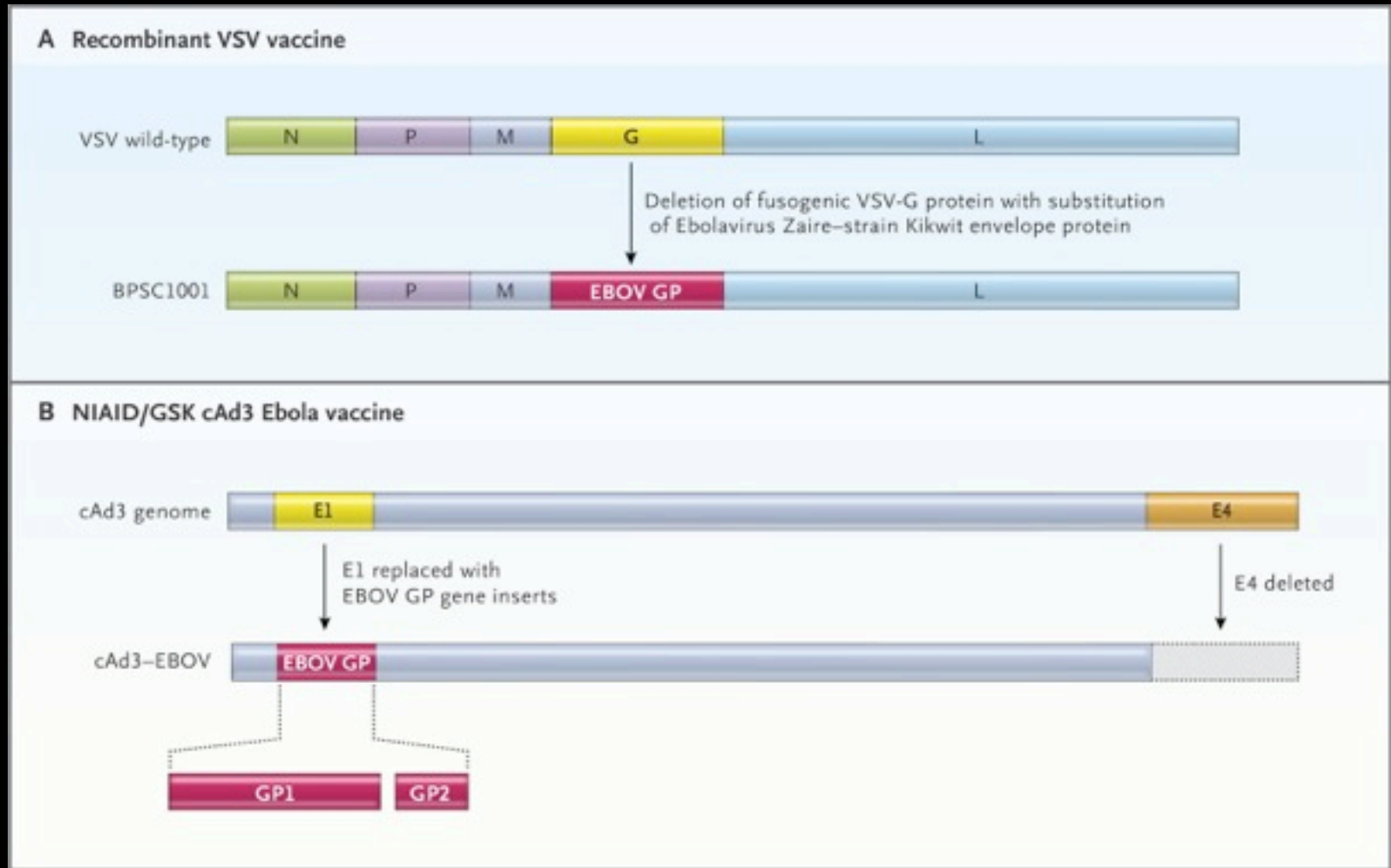


# Nurse Nina Pham



Tuesday, 14 October 14

## Structures of Ebola Vaccine Candidates rVSV (Panel A) and cAd3 (Panel B).



Kanopathipillai R et al. *N Engl J Med* 2014. DOI: 10.1056/NEJMp1412166



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Tuesday, 14 October 14

# PPE Use in Healthcare Settings: How to Safely Don, Use, and Remove PPE

- <http://www.theglobeandmail.com/news/news-video/video-ctv-vancouver-ebola-screenings-at-yvr-airport/article21030566/#dashboard/follows/>

- <http://www.theglobeandmail.com/news/news-video/video-training-to-help-ebola-patients-in-west-africa/article20979249/#dashboard/follows/>