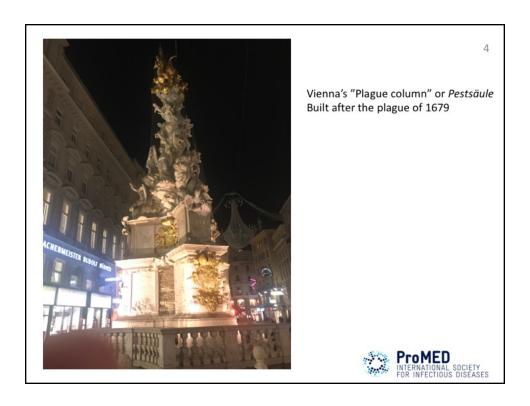
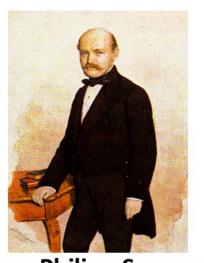


Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com





Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



Ignaz Philipp Semmelweis 1818-1865



1992



2003

"Microbes are ranked among the most numerous and diverse of organisms on the planet; pathogenic microbes can be resilient, dangerous foes. Although it is impossible to predict their individual emergence in time and place, we can be confident that new microbial disease will emerge."

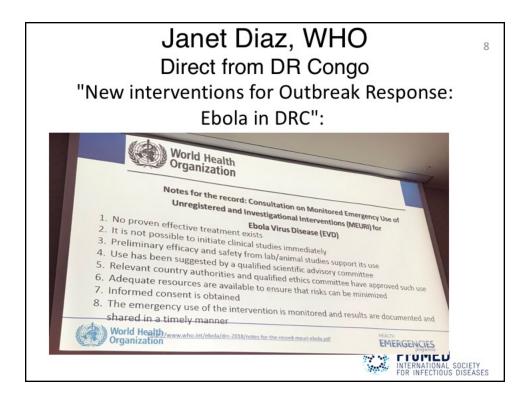
-Institute of Medicine, 1992



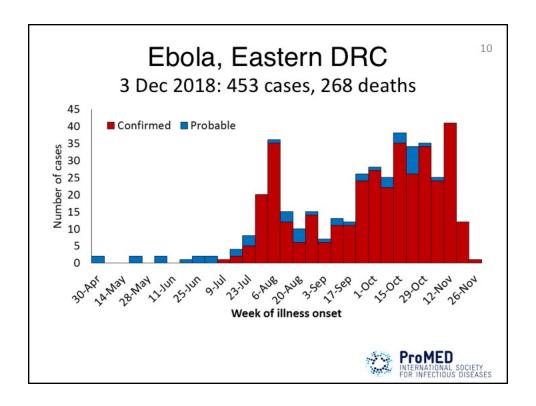
Session 1: Keynote
Plenary Session:
100th Anniversary of
the 1918 Influenza
Pandemic – Preventing
and Stopping Epidemics
in 2018

Chair: Marc Mendelson (South Africa) President, ISID

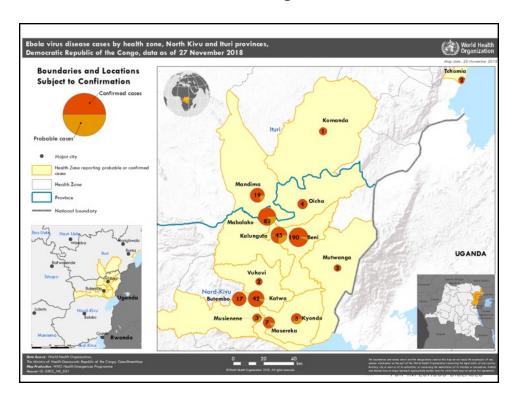


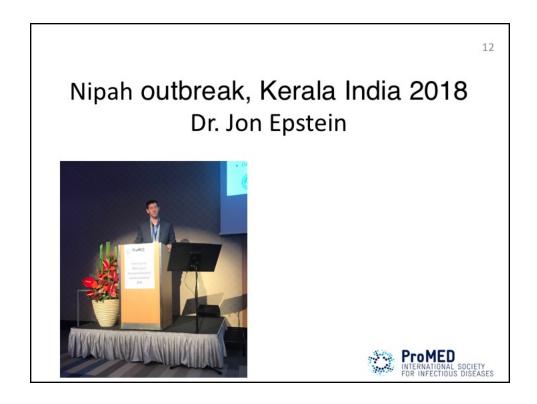






Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



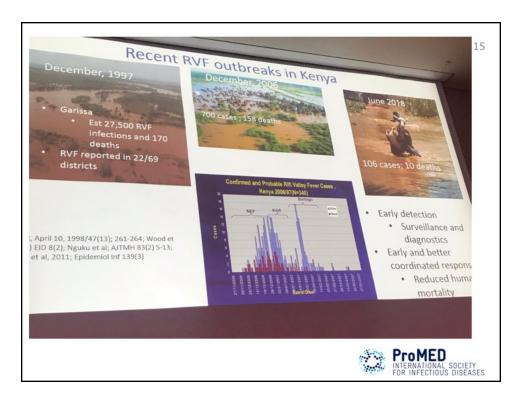


Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com





Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



16

Africa Centres for Disease Control and Prevention - Improving Prevention, Detection, and Response to Infectious Disease Threats Across Africa

Philip Onyebujoh (Zimbabwe)

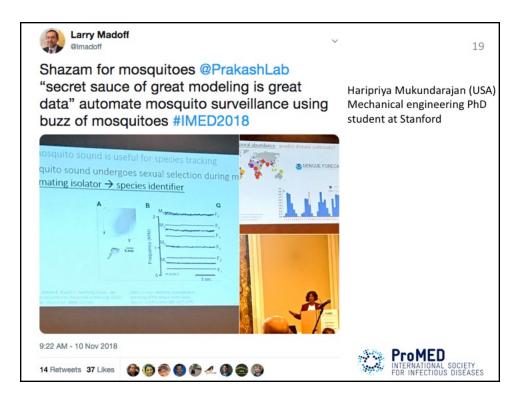
Dr. Onyebujoh, is the Senior Technical Advisor for Strategy and Policy to the Director of Africa Centres for Disease Control and Prevention (Africa CDC), a specialized institution of the Africa Union charged with the responsibility of managing and mitigating outbreaks and emergencies on the African continent.







Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



"Middle East Respiratory Syndrome
Coronavirus (MERS-CoV): Current
Understanding": Jaffar Al-Tawfiq
(Saudi Arabia)

ProMED MERS reports

- As of 30 Oct 2018, there has been a global total of 2266 cases of laboratory confirmed MERS-CoV infection reported to WHO
- 804 associated deaths (reported case fatality rate of 35.5 percent).

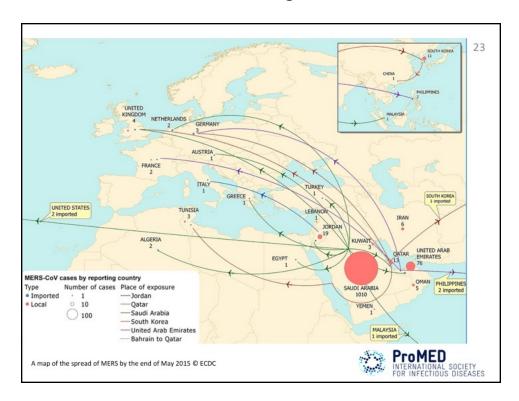


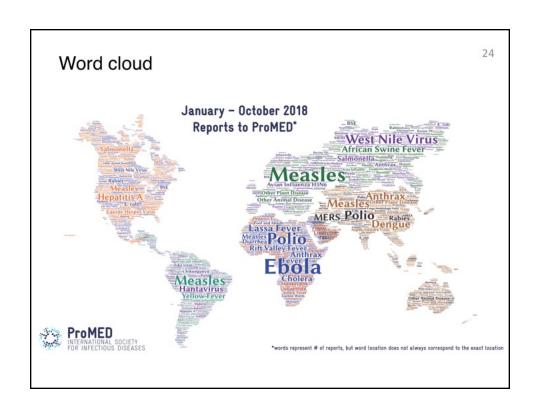
21



Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

11





Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



- The ProMED-mail electronic outbreak reporting system began in August 1994 to monitor emerging infectious diseases globally
- · Moderated e-mail lists, website, social media
- Early warning system for emerging disease outbreaks
- Emphasis on rapid reporting
 - Posts are vetted by SMEs but not "peer reviewed"
 - Standard for <24 hour turnaround
 - Requests for Information (RFIs) for unconfirmed reports



26



- · Free subscription
- 90,000 subscribers in > 180 countries
- All reports are screened and commented upon by expert Moderators before posting
- Average of 8 reports per day
- · Emphasis on "One Health"
- Regional network system

http://promedmail.org



Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

13





Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



30



"It's tough to make predictions, especially about the future."

- Yogi Berra



Bacteria, parasite, virus...

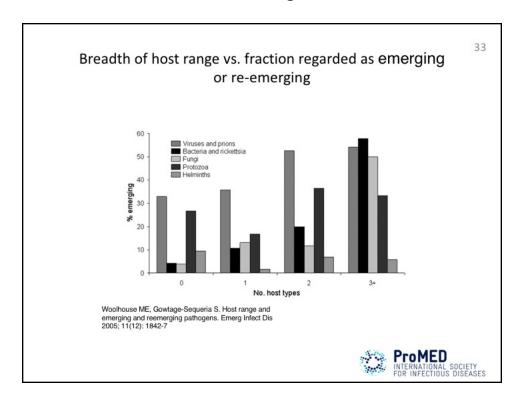
- Cholera
- Plague
- Malaria



31



Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



"Big" outbreaks

- · Size of population affected
- Geographic spread
- · Morbidity and mortality
- · Social disruption, "fear factor"
- · Economic impacts

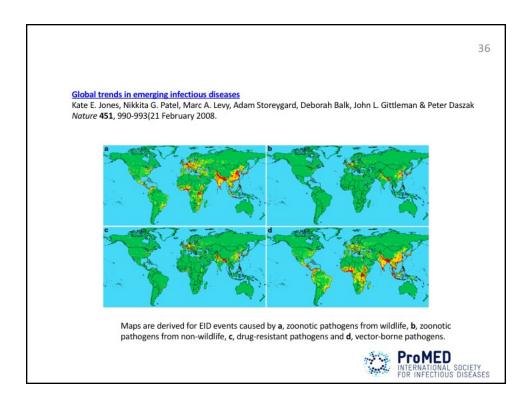


34

"Big" outbreaks

- · Plague Historical context, literary impact
- · Influenza Historical, recurrent
- · Cholera Historical, recurrent
 - Haiti
 - Yemen
- Smallpox Eradication
- HIV Global impact
- SARS First pandemic of the 21st century
- MERS 2nd novel coronavirus, zoonosis, peculiar geography
- Ebola Dramatic mortality, social impact
- Yellow fever highlighting vaccine shortage
- · Zika unexpected fetal impacts







The usual suspects...

- Nipah-like virus (Contagion)
- Novel coronavirus (Dale Fisher)
- CCHF
- · Rift valley fever
- SFTS
- Novel flavivirus

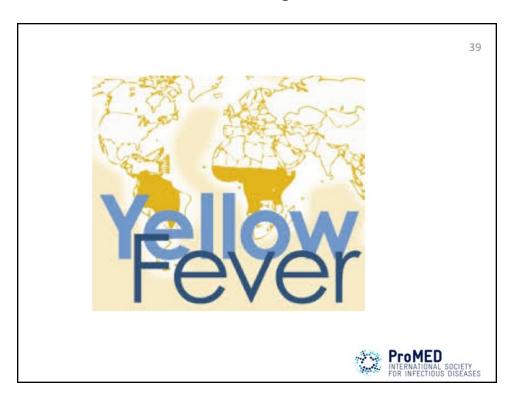


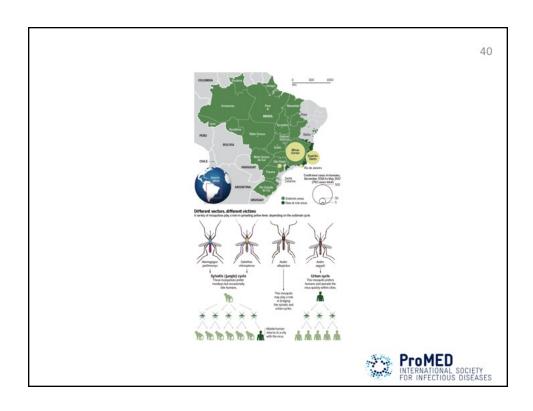


38

Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

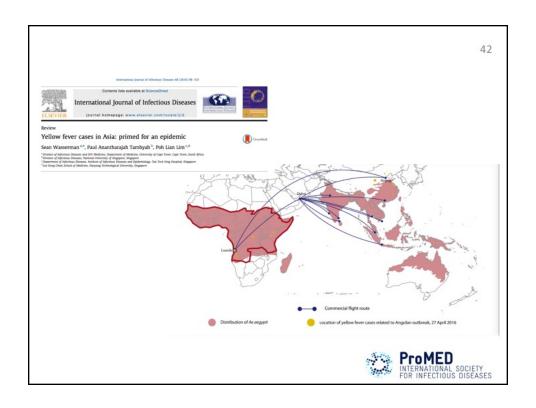
19





Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

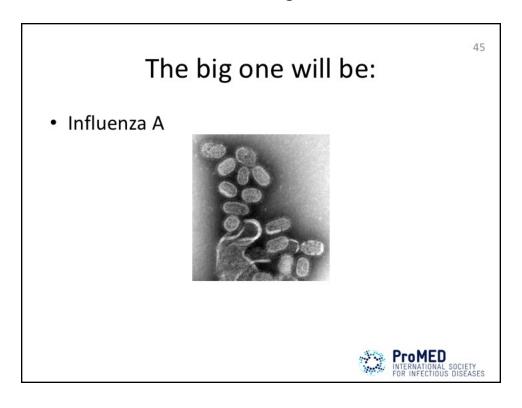


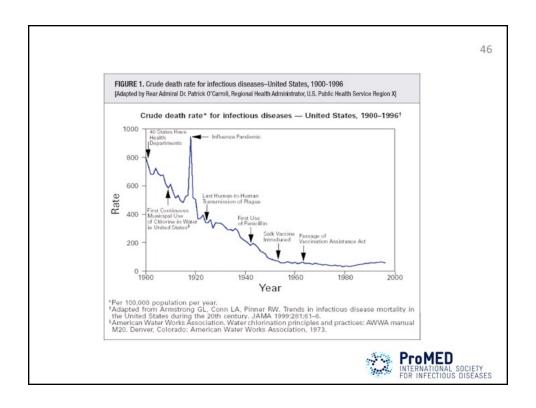


Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

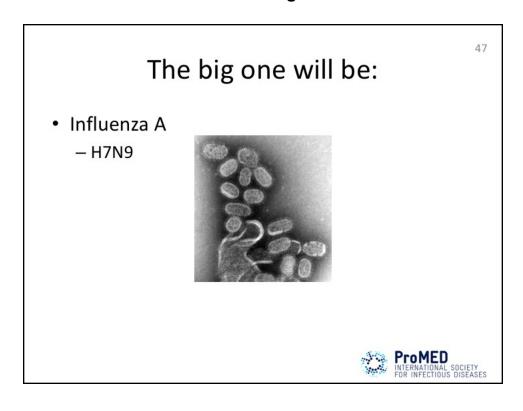
Why hasn't it happened yet?
Is there a barrier to YF introduction in Asia?

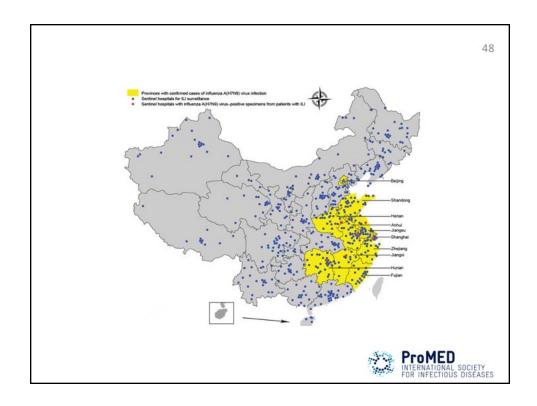
The big one will be:



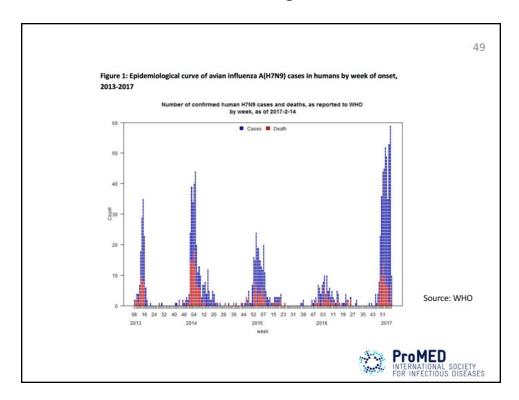


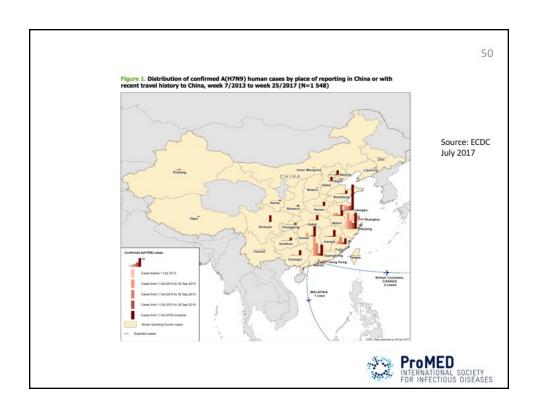
Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



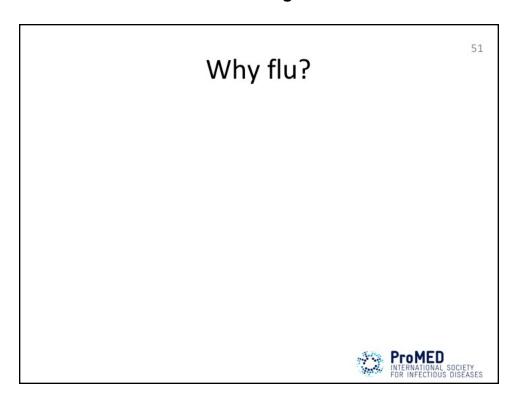


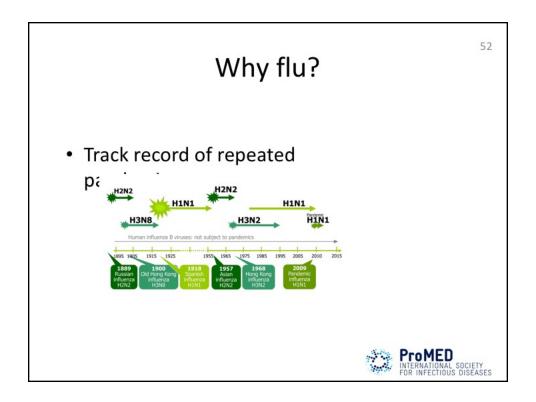
Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com





Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com





Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

Why flu?

53

- · Track record of repeated pandemics
- Transmissible prior to symptom onset



Why flu?

54

- Track record of repeated pandemics
- · Transmissible prior to symptom onset
- High R₀ (1.5-3)



Why flu?

55

- Track record of repeated pandemics
- · Transmissible prior to symptom onset
- High R₀ (1.5-3)
- · Long lag time for vaccine production



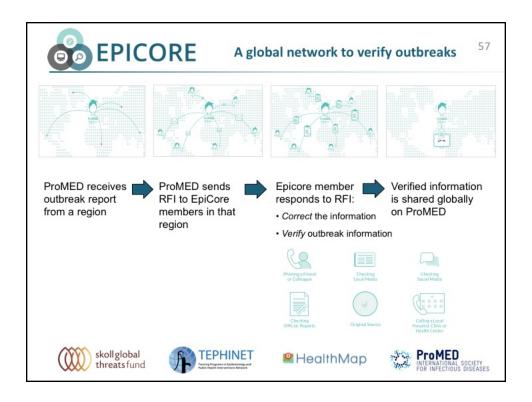


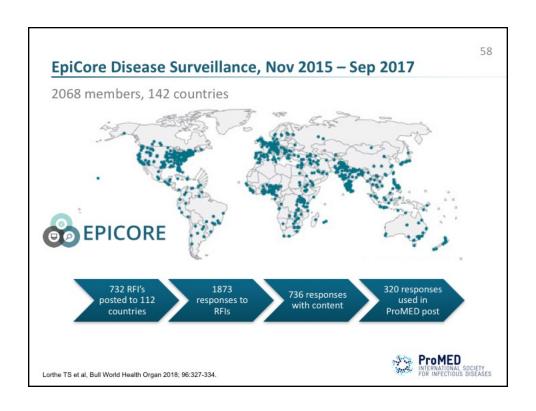
Why flu?

56

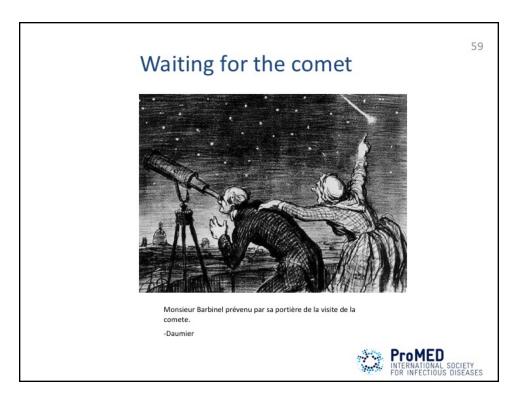
- · Track record of repeated pandemics
- · Transmissible prior to symptom onset
- High R₀ (1.5-3)
- · Long lag time for vaccine production
- H7N9 has already mutated from LPAI to HPAI without apparent loss of human virulence







Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com



Thank you

Imadoff@promedmail.org

@Imadoff

http://promedmail.org



60

Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

30

www.webbertraining.com/schedulep1.php	
December 12, 2018	(South Pacific Teleclass) CONTROL OF CARBAPENEMASE-PRODUCING ENTEROBACTERIACEA IN AN ENDEMIC SETTING: DO CLASSICAL IPC METHODS WORK FOR NEW AGE BUGS? Speaker: Dr. Kalisvar Marimuthu, Tan Tock Seng Hospital, Singapore
December 13, 2018	(FREE Teleclass) THE BEST WAYS TO GET YOUR HOSPITAL TO TALK ABOUT INFECTION CONTROL Speaker: Prof. Andreas Voss, Radboud University, The Netherlands Sponsored by Lonza (www.lonza.com)
December 14, 2018	(FREE WHO Teleclass - Europe) NEW PERSPECTIVES ON INFECTION PREVENTION AND CONTROL PROGRAM ASSESSMENTS IN THE SPIRIT OF IMPROVEMENT Speaker: Prof. Benedetta Allegranzi, World Health Association Global Infection Prevention and Control Unit Sponsored by the World Health Association
	(FREE European Teleclass) THE FALLOUT OF FAKE NEWS IN INFECTION PREVENTION, AND WHY



Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com