MY HANTA EXPERIENCE

STEVE KORNFELD MD


FRONT
BESTO


FASTEN SEAT BELT
NO SMOKING
LEAVE VALVE CLOSED!
ONLY OPEN WHEN NEEDED
PRESS "MESSAGE" TO ACKNOWLEDGE LOW O2 ALARM

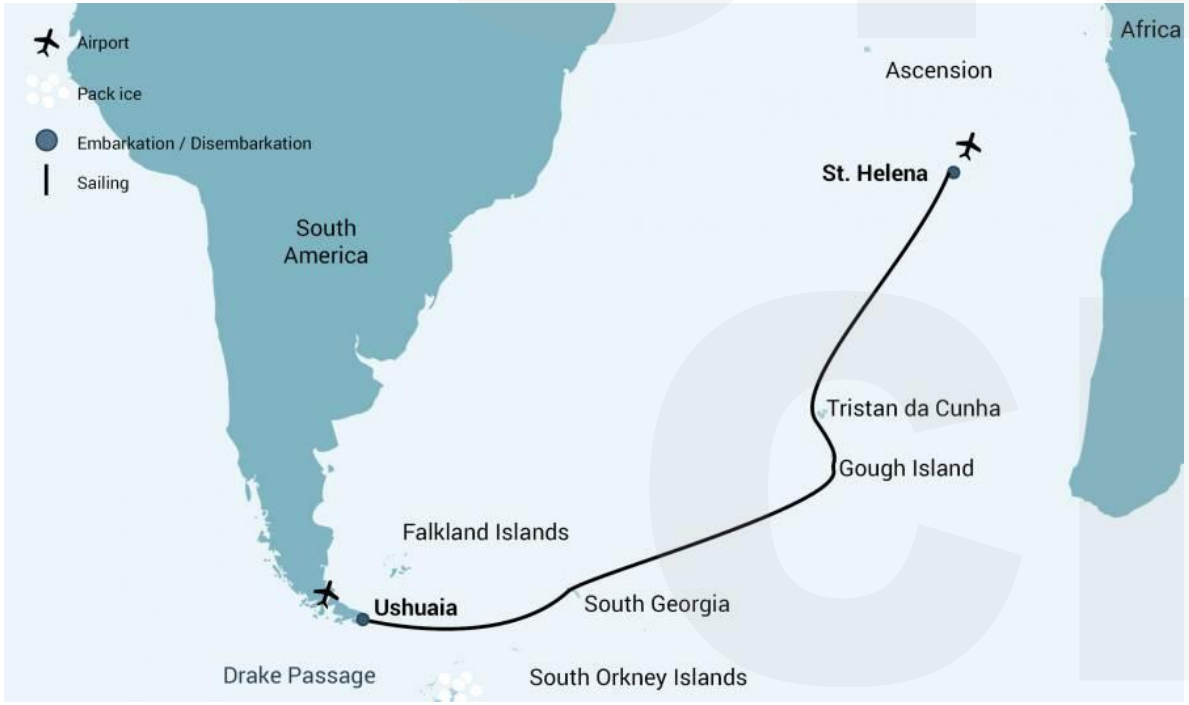

PRINCE PHILIP HALL
CASTLE
DOUBLE



MV Hondius



114 passengers boarded in Ushuaia – April 1
28 disembarked St Helena – April 24
86 continue - destination Cape Verde – May 9





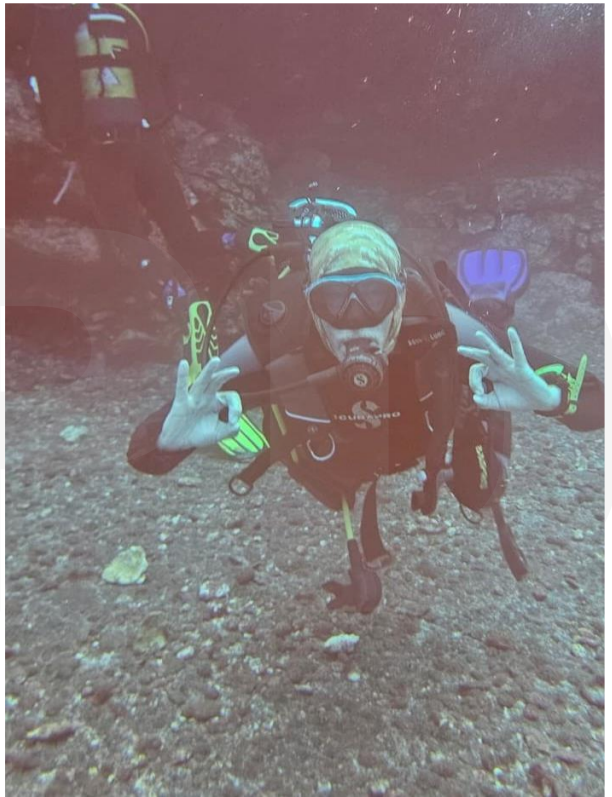
Who Takes a 5-Week Remote Cruise

Birdwatchers (Birders)	• Remote Islands with unique endemic bird species • Remote Ocean areas with localized sea birds
Penguin collectors (19)	• Remote cruises required
Extreme Travelers	• After every country, you go for territories
A few random folks with lots of time and money	
Most understand that immediate emergency assistance is not possible	










Hanta - Worldwide

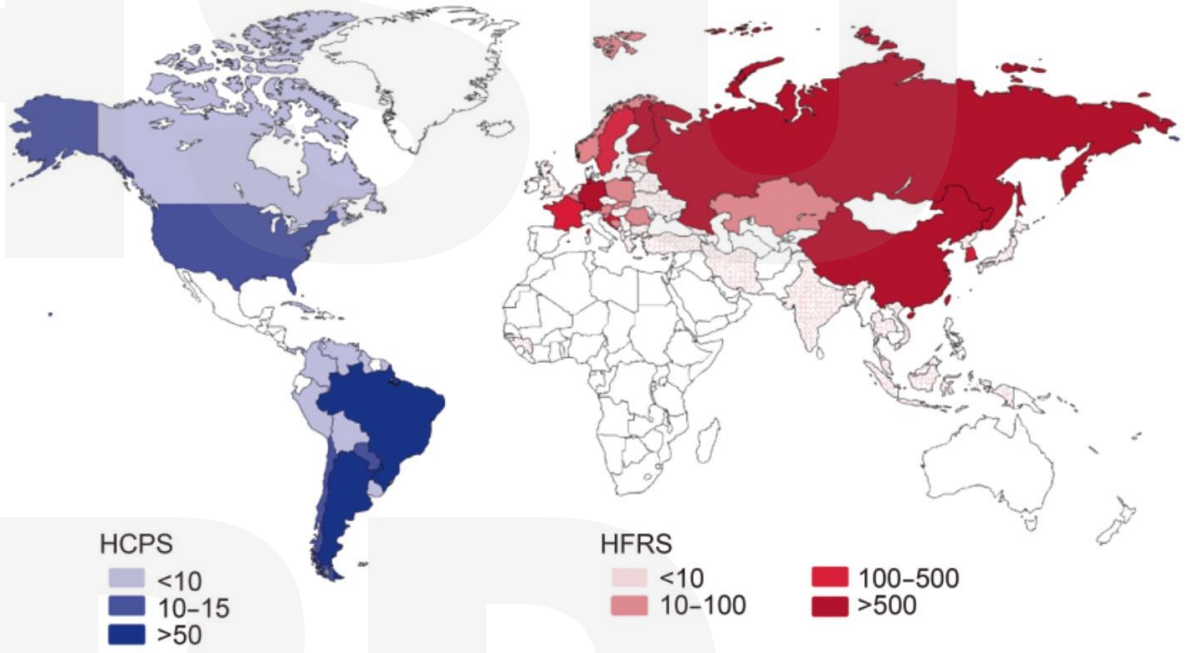
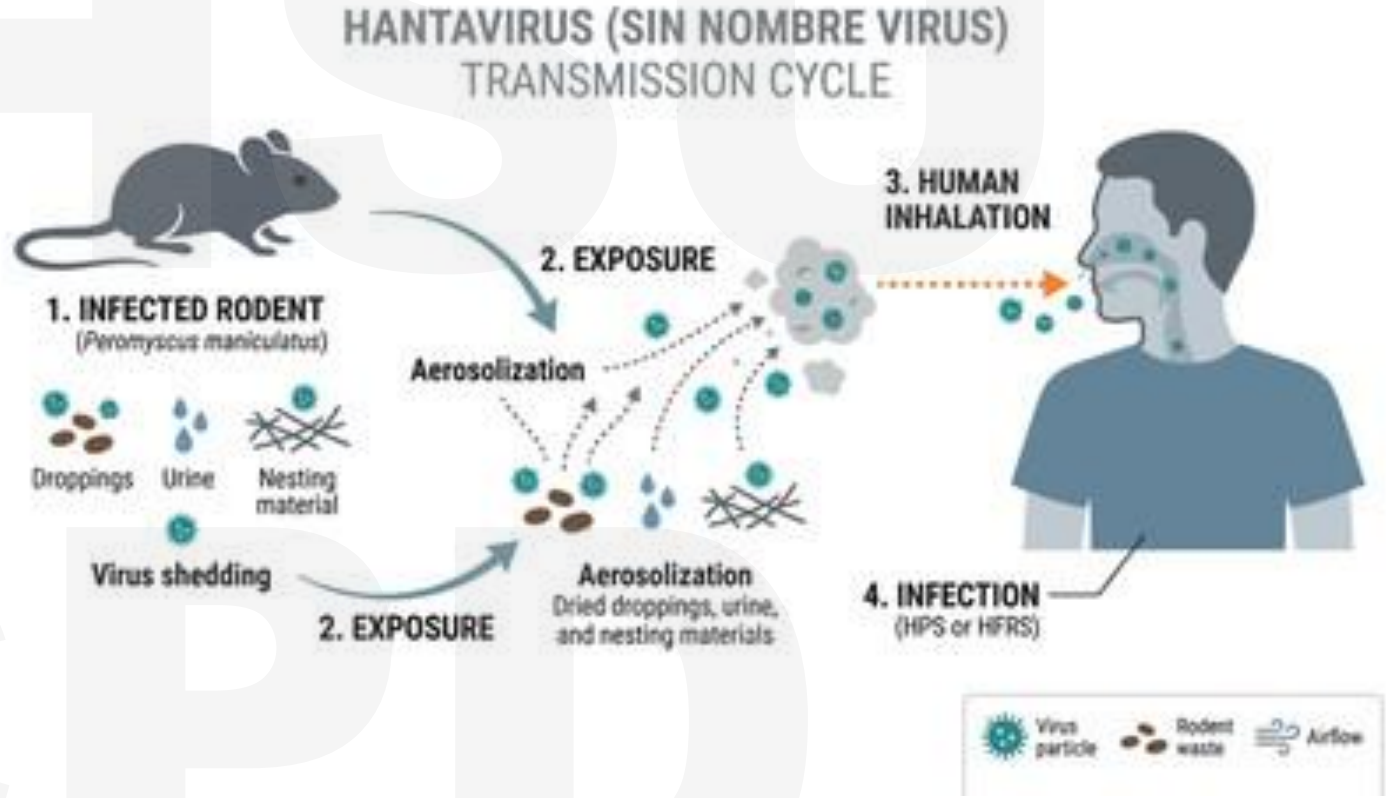


Figure 1. Geographical representation of approximate incidence of hantavirus cardiopulmonary syndrome (HCPS) and hemorrhagic fever with renal syndrome (HFRS) by country per year (data updated to 2016).

Hanta Virus (15-45 US cases per year – 30% fatality)




New World Hantaviruses
New York
Peromyscus leucopus
Sin Nombre
Peromyscus maniculatus
Prospect Hill
Microtus pennsylvanicus
Muleshoe
Sigmodon hispidus
Bloodland Lake
Microtus ochrogaster
Monongahela
Peromyscus maniculatus
Isla Vista
Microtus californicus
Bayou
Oryzomys palustris
Black Creek Canal
Sigmodon hispidus
El Moro Canyon
Reithrodontomys megalotis
Rio Segundo
Reithrodontomys mexicanus
Choclo
Oligoryzomys costaricensis
Laguna Negra
Calomys laucha
Caño Delgadito
Sigmodon alstoni
Araraquara
Bolomys lasiurus
Maporal
Oligoryzomys delicatus
Juquitiba
Oligoryzomys nigripes
Rio Mamore
Oligoryzomys microtis
Maciel
Necromys benefactus
Orán
Oligoryzomys longicaudatus
Lechiguanas
Oligoryzomys flavescens
Bermejo
Oligoryzomys chacoensis
Andes
Oligoryzomys longicaudatus
Pergamino
Akodon azarae

Andes Hanta Virus

Confined to the Andes of Argentina and Chile

60 – 150 cases per year

Only Hanta virus with documented person to person transmission

More lethal than Sin Nombre?

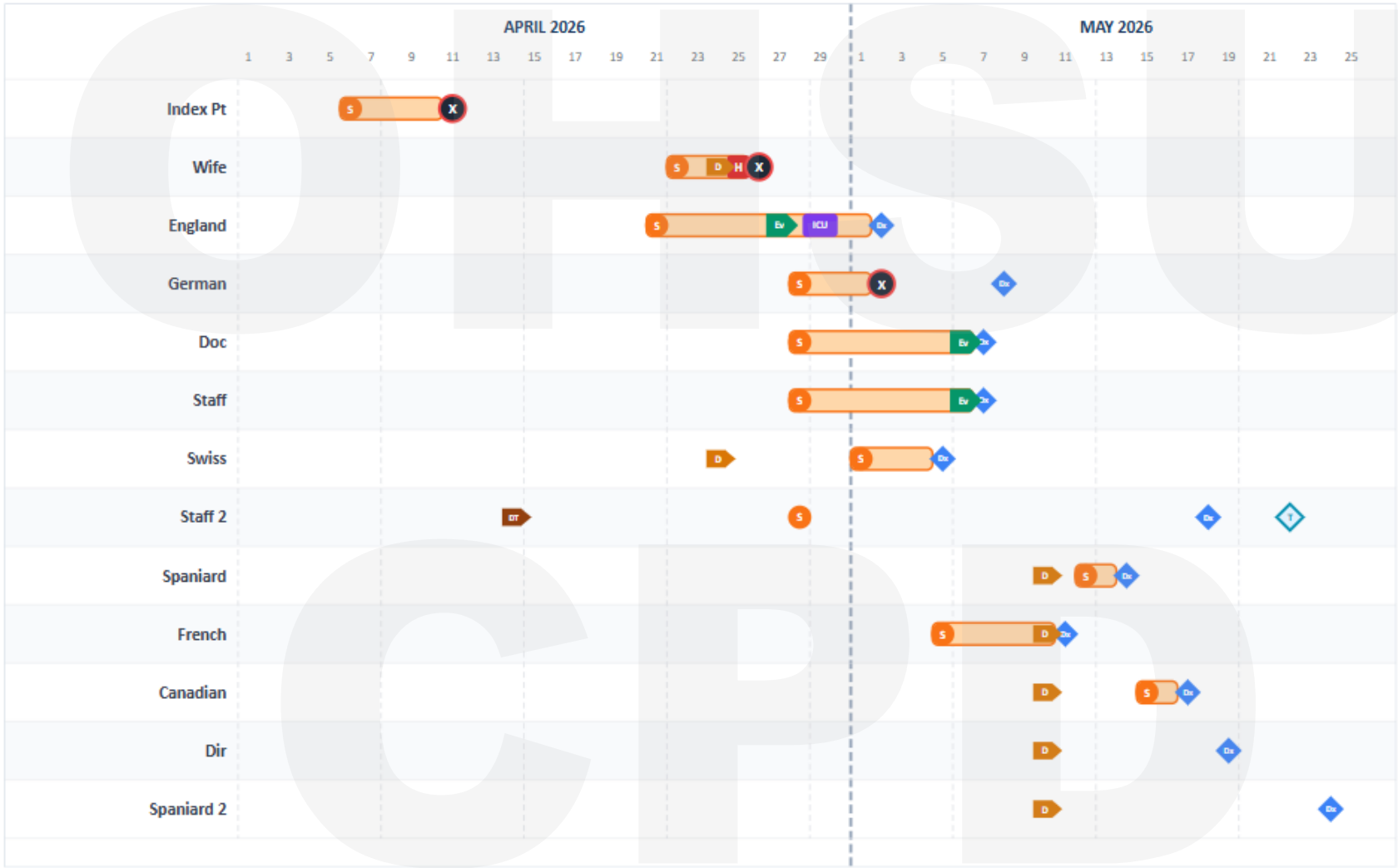
Incubation period 6-40 days

Timeline of Illness on the Ship

- First Death April 11
- Second Death April 26
- End of April many ill (including ships only staff MD)
  - WHO and European health agencies concerned over SARS
- May 1 - Became ship's doctor
  - Join staff, full access
- May 2 – First Hanta diagnosed
  - Masks encouraged, coordinate with WHO
- May 4 – Second Hanta diagnosed – Must be Andes
  - Lock down – Amazing compliance
- May 6 – Critically ill evacuated at Cape Verde
- May 10 – All leave ship in the Canary Islands
  - Country by country

Epidemiologic Timeline: Outbreak April–May 2026

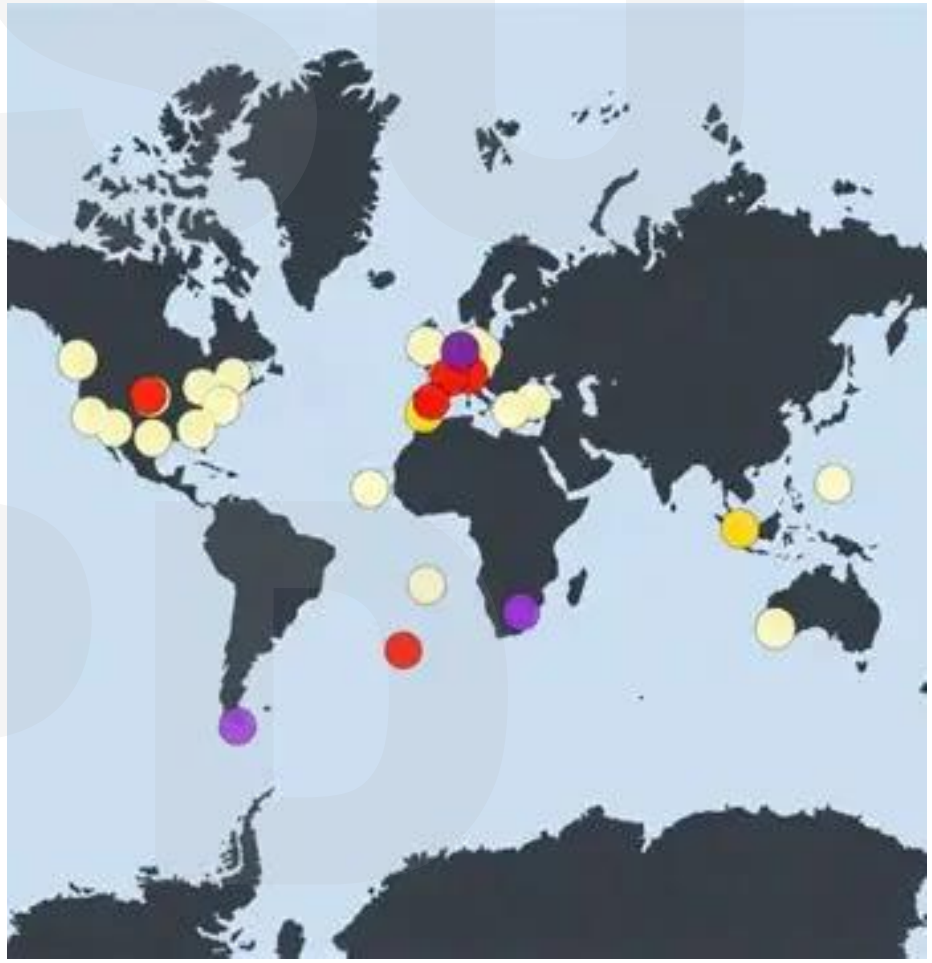
Index Case through Contact Tracing | 13 Individuals Tracked



Symptom Onset · Diagnosis · Death · Hospitalization · ICU · Evacuation · Departure · Dep (Tristan) · Testing · Illness Period

Worldwide Panic

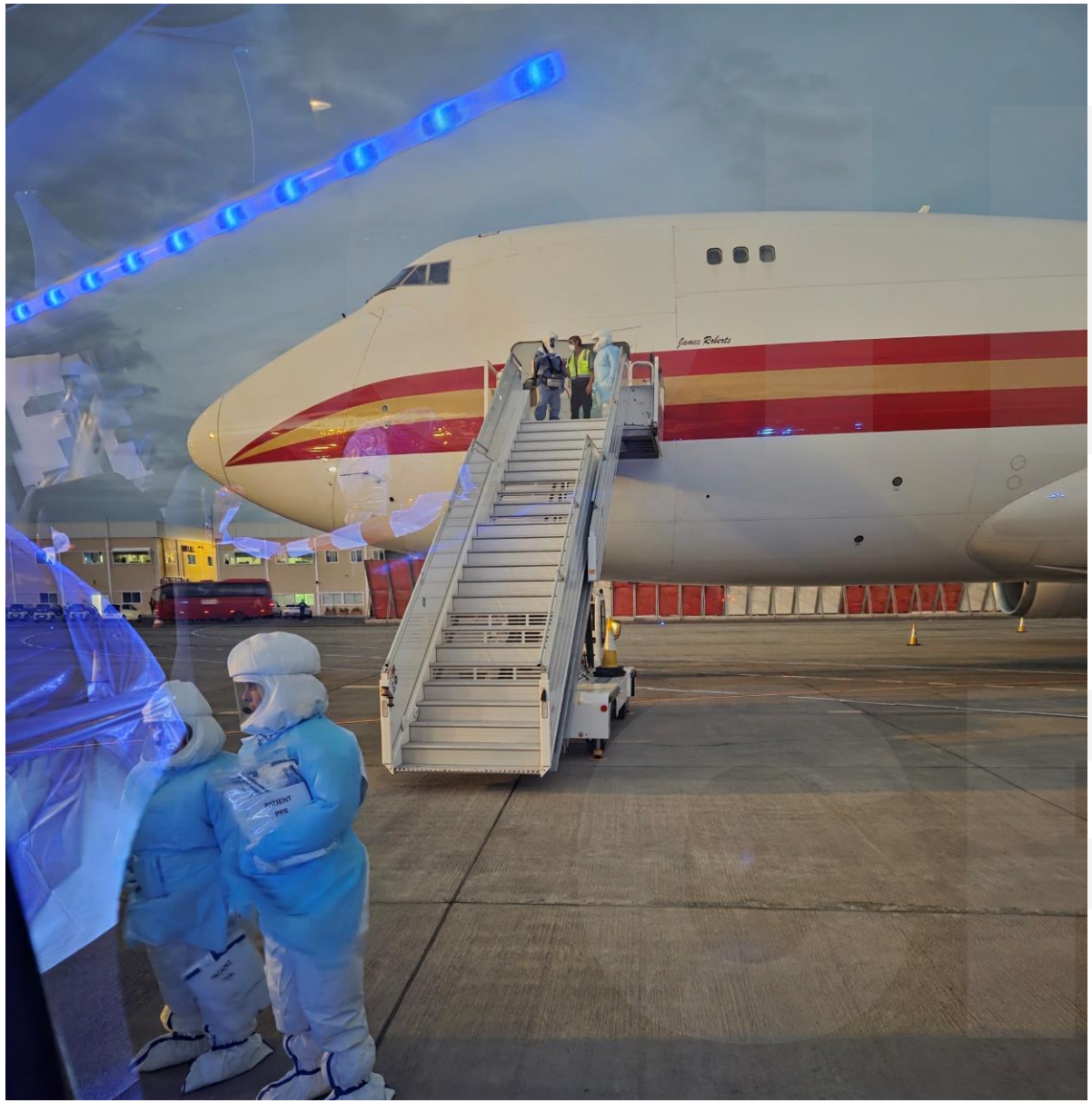
- Next Pandemic
  - Covid memory fresh
- Unpredictable spread on the ship
- Compared to Covid
  - Mortality 30% vs 0.3% - 100x
  - Longer incubation period
    - 6-40 days vs 2-14 days
- R value was ignored
  - Less than 1



Timeline after ship departure

- May 10 Transport to Omaha via specialized 747
  Positive test from May 3 reported May 8

OHSU CPD


James Roberts


ENVIRO GUARD

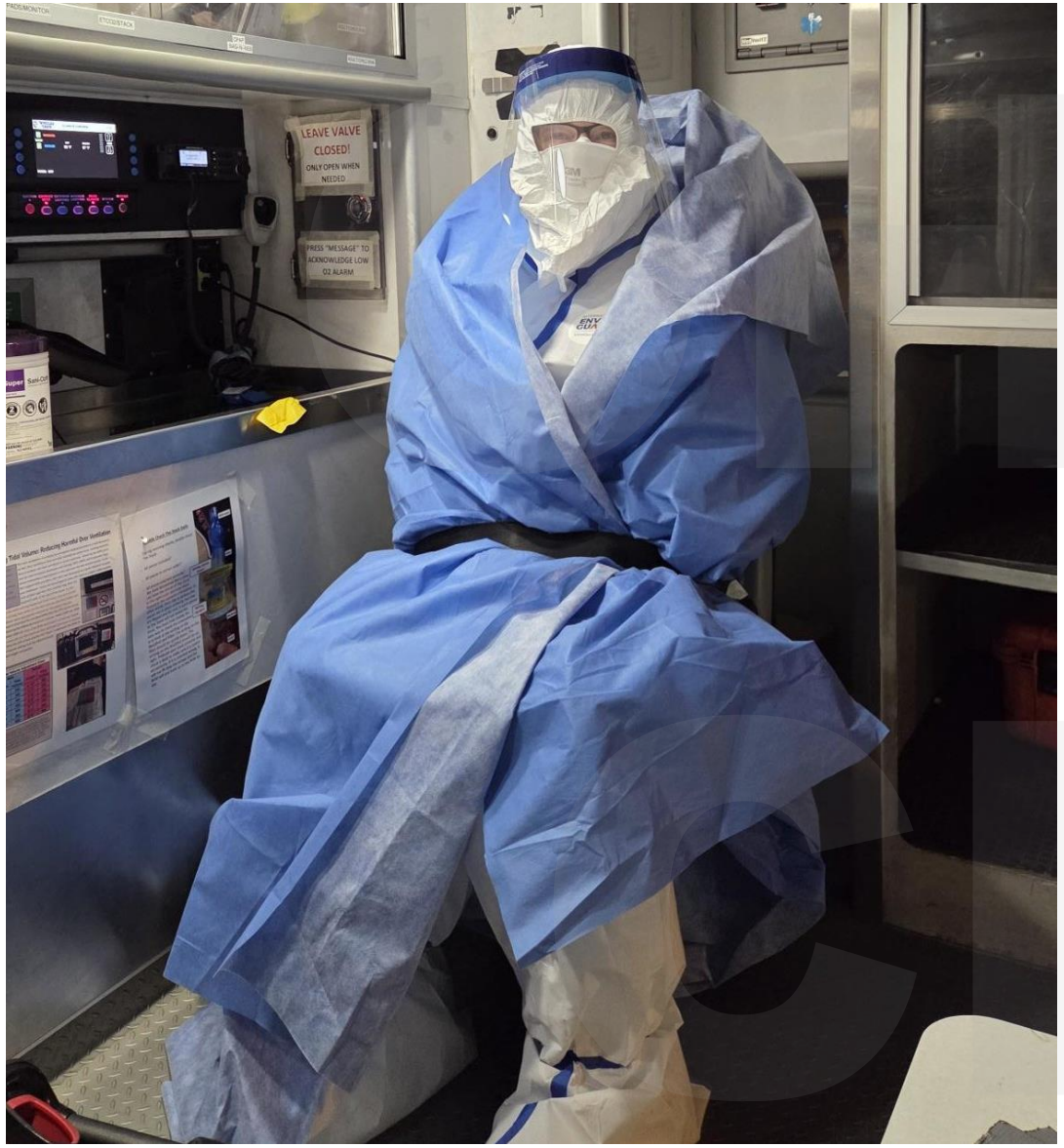




Timeline after ship departure

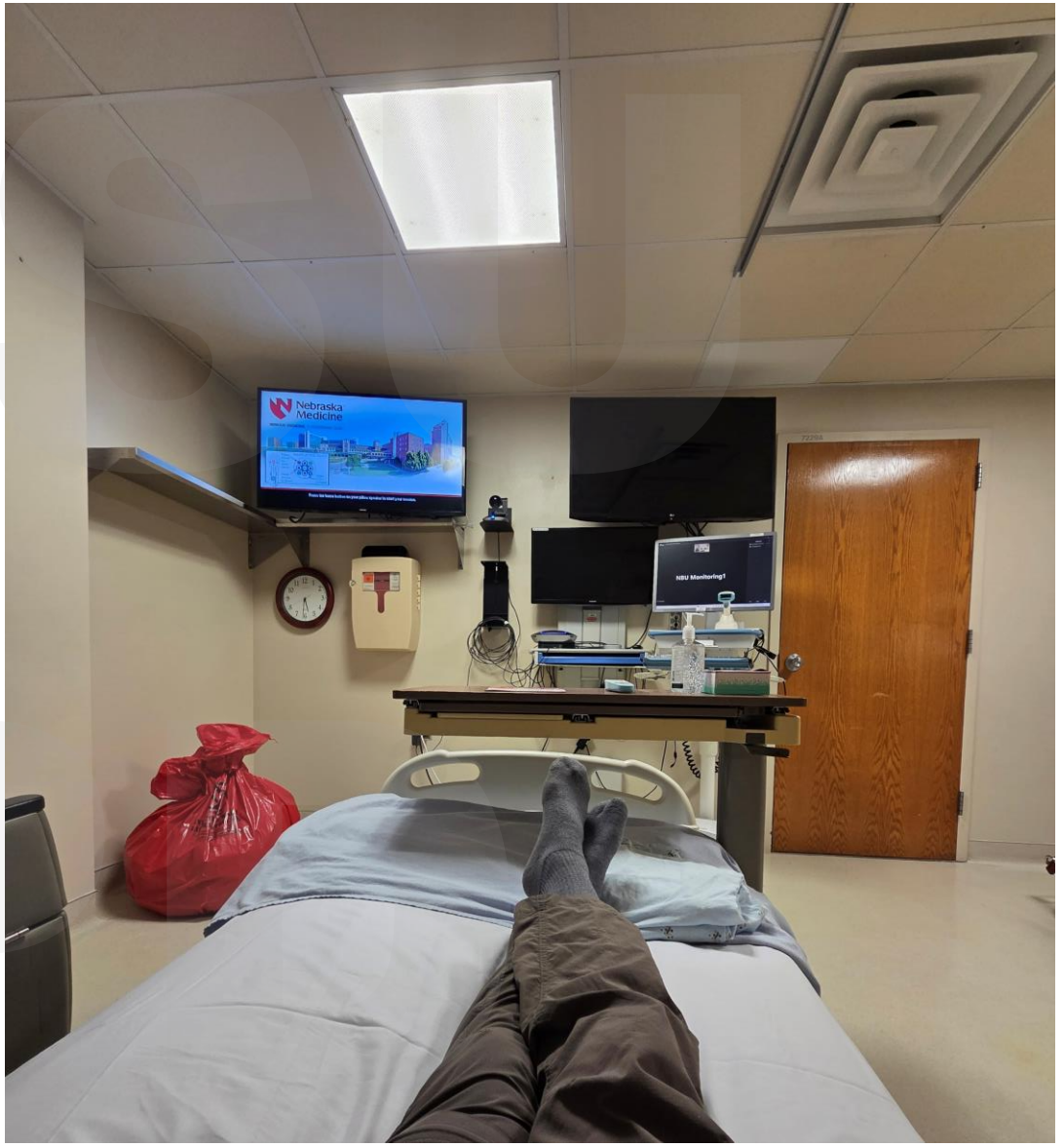
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- May 11-13 Biocontainment Unit, Nebraska Medical Center

OHSU CPD


LEAVE VALVE
CLOSED!
ONLY OPEN WHEN
NEEDED
PRESS "MESSAGE" TO
ACKNOWLEDGE LOW
O2 ALARM






Nebraska Medicine
NBU Monitoring1

Timeline after ship departure

- May 10 Transport to Omaha via specialized 747 Positive test May 8
- May 11-13 Biocontainment Unit, Nebraska Medical Center
- May 13-30 National Quarantine Unit (NQU)

OHSU CPD

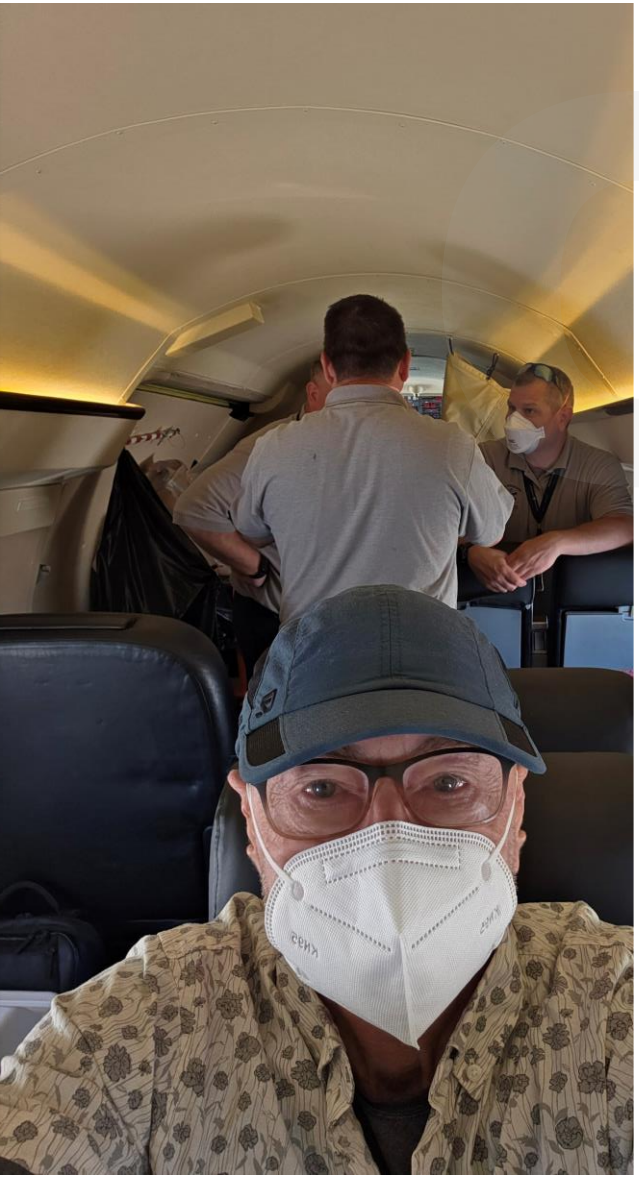






Timeline after ship departure

- May 10 Transport to Omaha via specialized 747 Positive test May 8
- May 11-13 Biocontainment Unit, Nebraska Medical Center
- May 13-30 National Quarantine Unit (NQU)
- June 1 – 20 Home Quarantine
  - Federal vs State
  - Shout out to the Governor, OHA, Deschutes Public Health




N190PA


N190PA

Final Stats from this Episode

- 13 infected
- 3 deaths
- No American got Hanta
- Every case was someone on the ship
- No spread documented away from the ship despite extensive commercial travel with highly symptomatic passengers long before quarantine started

Final Thoughts
(the world)

WHO lead the effort

International response was inconsistent

Politics vs Medicine

Political pawn

Final Thoughts
(for me)

Crazy what can happen

Stepping up

Being present

Outpouring of support

Presenting the medical profession in a positive light

First personal awareness of my own mortality


1
Ahhh... a rooftop visit for some fresh air.
2
HEADED UP.
3
YOU CAN'T GO UP THERE.
ROOF ACCESS RESTRICTED
SECURITY
SECURITY
THERE IS A 4% CHANCE OF RAIN.
4
I BROUGHT MY UMBRELLA.
5
PLUS IT'S SUNNY AND NOT RAINING.
I'LL COME BACK DOWN IF IT RAINS.
6
THIS IS COMING FROM THE WHITE HOUSE.
WHITE HOUSE
7
HEY! I KNOW ERIN BURNETT!!!
SECURITY
SECURITY
8
612
9
SECURITY
10
Ahhh – love this fresh air.