



CRUISE LINES
INTERNATIONAL
ASSOCIATION

Cruise Industry and Influenza A(H1N1)

September 16, 2009



H1N1 – FAST FACTS

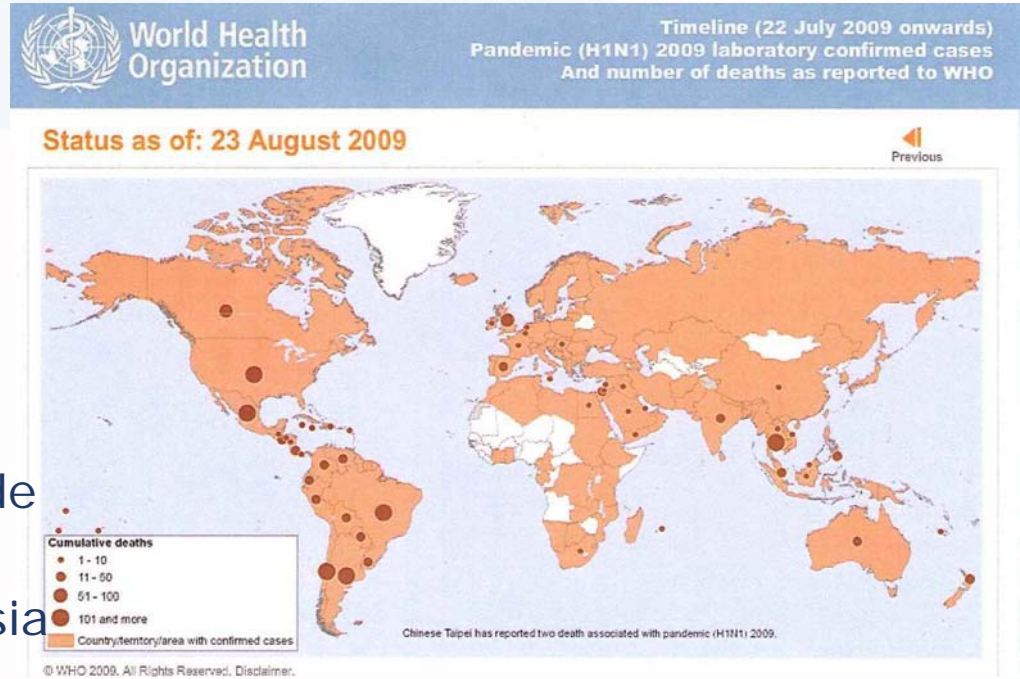
- What are the symptoms?
 - Flu-like symptoms – including fever, cough, runny nose or sore throat, body aches, chills, headache, fatigue
 - Some people reported diarrhea and/or vomiting
- Treatment and sanitation
 - Viral medications effective (Tamiflu®, Relenza®)
 - CDC: *“Suspect H1N1 with uncomplicated febrile illness typically do not require treatment unless hospitalized or higher risk for flu complications”*
 - Isolation to halt spread
 - Viral shedding period undetermined – decreases as symptoms ease
 - Maximum transmission distance – social isolation (~2M)
 - Easily killed - disinfection with bleach/chemicals effective
 - **Enveloped virus**
 - CDC: *“Survives on environmental surfaces 2-8 hours”*



GLOBAL H1N1 PANDEMIC

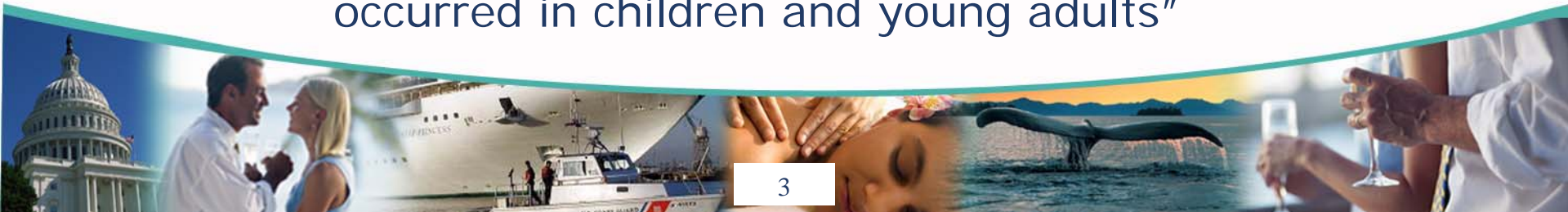


- **As of 23 August 2009**
 - 209,438 cases
 - 2,185 deaths
 - 88+ countries
 - 0.61% mortality rate
- **Seasonal flu**
 - 30,000 deaths U.S.
 - 350,000 deaths Worldwide
- **Avian flu**
 - 80% mortality in Indonesia (2006-2007)



*Pink areas show countries with confirmed cases
Red dots – larger dot = higher cases*

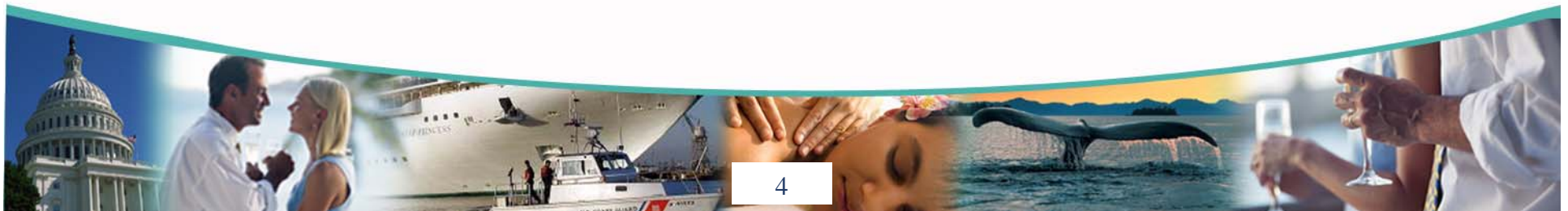
CDC: “Most cases similar to seasonal flu and have not resulted in severe illness...most cases occurred in children and young adults”



WHAT IS THE CRUISE INDUSTRY DOING?



- Surveillance and Screening
 - Questionnaire completed by all guests
 - Medical evaluation of observed cases or “Yes” answers
 - Rapid influenza test where indicated
 - Screening for acute respiratory illness; fever or feverishness, cough, runny nose or sore throat
 - Denial of boarding using CDC case definitions and on a case-by-case basis in coordination with public health officials
 - Education of crew and surveillance for sickness
- Communication
 - Guest daily newsletters; crew, television and announcements
 - Public address reminders – hand washing and etiquette
 - Calling infirmary – not going – keeps infirmary clear



WHAT IS THE CRUISE INDUSTRY DOING?



- Isolation & Quarantine
 - 5-7 days based on treatment and symptoms
 - Close contacts (incl. asymptomatic), crew partners, coworkers
- Treatment & Monitoring
 - BEYOND clinically necessary; very ill, high risk (ex. pregnant)
- Sanitation
 - Surface sanitation, hand gels, no handshake events
- Reporting
 - Advance Maritime Declaration of Health reporting
 - Local requirements for reporting
- Appropriate shore side identification and transfer
 - Transfer ashore with mask to hotel, hospital or public conveyance in agreement with local public health officials



PRESENT DAY AND FUTURE

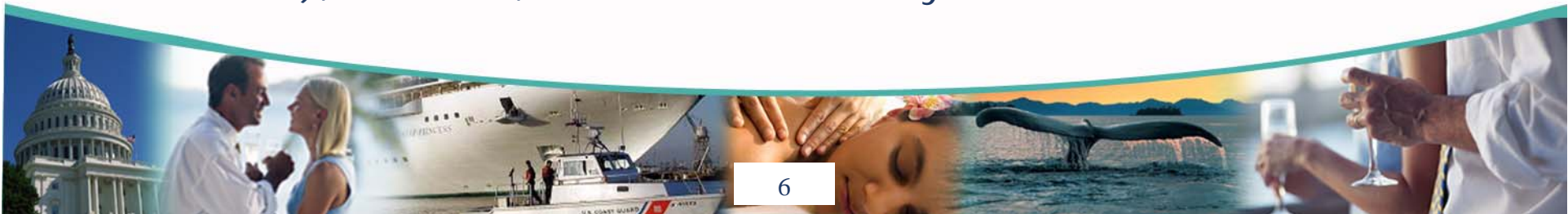


- Present Day

- Ships follow Protocols and use Questionnaire
- Additional medications and personal protective equipment on ships
- CLIA forms medical and public health working groups
 - Refine case management
 - Collaborate with Health Authorities on guidance and protocols

- Future

- Winter in southern hemisphere; flu likes cold temperatures & dry air
- Historically flu circles the globe in two or three waves, some mild, some not – no predictive characteristic
- Potentially, more virulent strain could appear this fall (worst case), however, scientific community now has vaccine



GLOBAL HEALTH ORGANIZATION COMMENTS

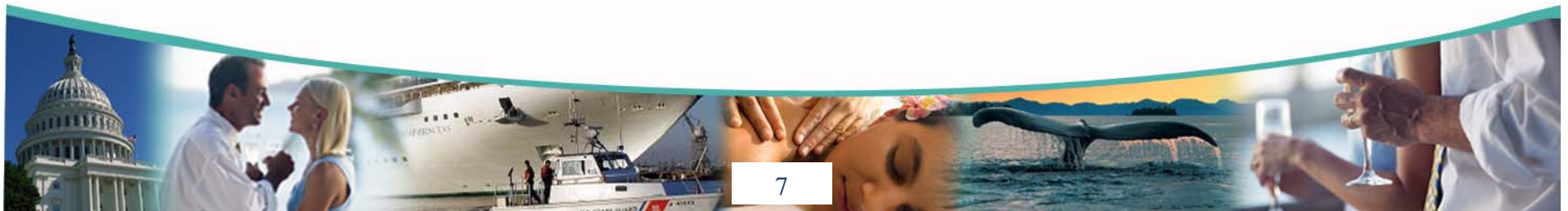


- **US CDC:** "Even though some severe illnesses and deaths from novel H1N1 flu have been reported, **most cases have been similar to seasonal flu and have not resulted in severe illness.**"
– *CDC Outbreak Notice June 18, 2009.*



World Health Organization

- **WHO:** "**No travel restrictions**" and notes that best advice is to limit spread through education (hand washing, etc.)
Phase 6 pandemic is due to geographic spread, not severity.



CONCLUSION



- Cruise lines doing everything possible to both keep H1N1 off ships and effectively manage influenza-like illnesses including H1N1 cases when/if they occur.
- Working with CDC, CARICOM, Health Canada, ECDC & WHO to ensure protocols are protective of port populations, crew and guests.
- Geographic spread worldwide is expected, but disease is mild
- Many countries have a policy to allow cruise ships entry to port even if cases present onboard – best way to assess the situation
- Cruise lines ready to work together with their U.S., international and Caribbean partners.

