Vessel Sanitation Program

Charting a Healthier Course
Mission

- Prevent the introduction, transmission, or spread of communicable diseases into the United States
- Assist cruise ship industry in developing and implementing comprehensive sanitation programs to minimize the risk for gastrointestinal illnesses

Adapted from IAFP Icon
VSP Staff

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1970-1975

Routine sanitation inspections of all arriving vessels
Significant risk associated with cruise ships
WHO Guide to Ship Sanitation
Routine sanitation inspections of all arriving vessels

Significant risk associated with cruise ships

WHO Guide

Voluntary compliance to maintain minimum levels of sanitation and minimize threat of AGE illness

Inspection results made public

40th Anniversary – 1975 - 2015
Voluntary compliance to maintain minimum levels of sanitation and minimize threat of GI illness

Inspection results available to the public

Routine sanitation inspections of all arriving vessels

Significant risk associated with cruise ships

WHO Guide to Ship Sanitation

1970-1975

1975

1986

First overseas consultation on construction 1986

Inspections discontinued & industry “encouraged” to develop a program of self-inspection using Vessel Sanitation Inspection Manual
### VSP History

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1986</td>
<td>First overseas consultation on construction.</td>
</tr>
<tr>
<td>1987</td>
<td>Inspections discontinued &amp; industry “encouraged” to develop a program of self-inspection using the Vessel Sanitation Inspection Manual. In compliance with congressional directive, VSP reestablished with following components:</td>
</tr>
<tr>
<td>1986 &amp; 1987</td>
<td>- Unannounced inspections</td>
</tr>
<tr>
<td>1986 &amp; 1987</td>
<td>- Follow-up inspections</td>
</tr>
<tr>
<td>1986 &amp; 1987</td>
<td>- Construction consultation</td>
</tr>
<tr>
<td>1986 &amp; 1987</td>
<td>- Investigation of outbreaks</td>
</tr>
<tr>
<td>1986 &amp; 1987</td>
<td>- Biweekly publication of inspection scores</td>
</tr>
<tr>
<td>1986 &amp; 1987</td>
<td>- Inspection reports on request</td>
</tr>
</tbody>
</table>
Voluntary compliance to maintain minimum levels of sanitation and minimize threat of GI illness. Inspection results available to the public.


1987: In compliance with congressional directive, VSP reestablished with following components:
- Unannounced inspections
- Follow-up inspections
- Construction consultation
- Investigation of outbreaks
- Biweekly publication of inspection scores
- Inspection reports on request

1988: User fees charged to support 100% of VSP budget. Cost to cruise ships = $0.02 / passenger/day.
## Inspection Fees/Fiscal Year 2015

<table>
<thead>
<tr>
<th>Vessel Size</th>
<th>Gross Registered Tons</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra Small</td>
<td>&lt;3,001</td>
<td>$1,495</td>
</tr>
<tr>
<td>Small</td>
<td>3,001–15,000</td>
<td>$2,990</td>
</tr>
<tr>
<td>Medium</td>
<td>15,001–30,000</td>
<td>$5,980</td>
</tr>
<tr>
<td>Large</td>
<td>30,001–60,000</td>
<td>$8,970</td>
</tr>
<tr>
<td>Extra Large</td>
<td>60,001–120,000</td>
<td>$11,960</td>
</tr>
<tr>
<td>Mega</td>
<td>&gt;120,001</td>
<td>$17,940</td>
</tr>
</tbody>
</table>
Jurisdiction

- **Cruise vessels that**
  - Carry 13 or more passengers
  - Have an international itinerary
  - Call on U.S. ports

- **2014**
  - 200+ vessels
  - 21+ million passengers*

* 2014 Forecast Cruise Lines International Association (CLIA)
Allure of the Seas
Oasis of the Seas

**Arabella**
- Length: 50 m
- Size: 91 GRT
- Passengers: 40
- Crew: 8

**Allure of the Seas**
- Length: 360 m
- Size: 225,282 GRT
- Passengers: 6,300
- Crew: 2,186
VSP Program Components

- Inspections
### Select a Cruise Ship or Cruise Line

To select more than one cruise ship, hold down the "Ctrl" key and click on the cruise ship's name.

#### Cruise Ships
- All Vessel Inspection Scores
- Adventure Of The Seas
- AIDAdiva
- Albatross
- Amsterdam
- Arabella

To select more than one cruise line, hold down the "Ctrl" key and click on the cruise line's name.

#### Cruise Lines
- All Cruise Line Inspection Scores
- Aker Finnyards
- American Canadian Caribbean Line
- American Safari Cruises
- American West Steamboat Compa
- Carnival Cruise Lines, Inc.

### Select an Inspection Date Criteria

- Most Recent Date
- All Dates
- Date Between

**Date From** [ ] **Date To** [ ]

Click on the calendar to select a date.

### Select a Score Criteria

- All
Vessel Sanitation Program Pass/Fail Counts, FY 1996 – FY 2014

Number of Inspections

Failing: 8, 17, 22, 16, 19, 13, 10, 5, 6, 5, 8, 4, 2, 3, 1, 2, 7, 17, 12
Passing: 103, 85, 95, 104, 107, 105, 126, 147, 151, 149, 149, 250, 231, 235, 243, 231, 202, 236

Preliminary Data Compiled 2015 - LCDR Amy Freeland, USPHS
### Inspection Violations by Year

**FY 2009 – FY 2014**

<table>
<thead>
<tr>
<th>Year</th>
<th>Knowledge</th>
<th>Disease Reporting</th>
<th>Pools/Spas</th>
<th>Environmental Health</th>
<th>Potable Water</th>
<th>Food Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>0</td>
<td>48</td>
<td>269</td>
<td>308</td>
<td>822</td>
<td>5713</td>
</tr>
<tr>
<td>2010</td>
<td>0</td>
<td>85</td>
<td>222</td>
<td>304</td>
<td>795</td>
<td>5063</td>
</tr>
<tr>
<td>2011</td>
<td>0</td>
<td>46</td>
<td>86</td>
<td>369</td>
<td>527</td>
<td>4185</td>
</tr>
<tr>
<td>2012</td>
<td>27</td>
<td>254</td>
<td>1760</td>
<td>1111</td>
<td>861</td>
<td>6100</td>
</tr>
<tr>
<td>2013</td>
<td>58</td>
<td>204</td>
<td>463</td>
<td>520</td>
<td>680</td>
<td>6278</td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td>149</td>
<td>128</td>
<td>305</td>
<td>327</td>
<td>3420</td>
</tr>
</tbody>
</table>

Preliminary Data Compiled 2015 - LCDR Amy Freeland, USPHS
Food Safety Violations by Year
FY 2009 – FY 2014

<table>
<thead>
<tr>
<th>Year</th>
<th>Toxic substances</th>
<th>Personnel</th>
<th>Toilet/HW</th>
<th>Food</th>
<th>Facilities</th>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>12</td>
<td>62</td>
<td>181</td>
<td>732</td>
<td>2328</td>
<td>2579</td>
</tr>
<tr>
<td>2010</td>
<td>19</td>
<td>91</td>
<td>173</td>
<td>773</td>
<td>1939</td>
<td>2241</td>
</tr>
<tr>
<td>2011</td>
<td>12</td>
<td>96</td>
<td>174</td>
<td>525</td>
<td>1322</td>
<td>2230</td>
</tr>
<tr>
<td>2012</td>
<td>23</td>
<td>162</td>
<td>239</td>
<td>1111</td>
<td>1957</td>
<td>2608</td>
</tr>
<tr>
<td>2013</td>
<td>37</td>
<td>230</td>
<td>260</td>
<td>1082</td>
<td>2102</td>
<td>2567</td>
</tr>
<tr>
<td>2014</td>
<td>28</td>
<td>131</td>
<td>159</td>
<td>596</td>
<td>1117</td>
<td>1389</td>
</tr>
</tbody>
</table>

Preliminary Data Compiled 2015 - LCDR Amy Freeland, USPHS
VSP Program Components

- Inspections
- Surveillance & Outbreak Investigations
Surveillance

- Report 24 hours before arrival at a U.S. port
- Submit a 4-hour update
- Submit a special report when gastrointestinal illness reaches 2% and again at 3%
- Use electronic reporting system
GI Reporting Over Time
FY 2009-FY 2014

Number of AGE MIDRS Reports

<table>
<thead>
<tr>
<th>Year</th>
<th>Reports</th>
</tr>
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<tbody>
<tr>
<td>2009</td>
<td>7196</td>
</tr>
<tr>
<td>2010</td>
<td>7997</td>
</tr>
<tr>
<td>2011</td>
<td>8207</td>
</tr>
<tr>
<td>2012</td>
<td>8136</td>
</tr>
<tr>
<td>2013</td>
<td>8150</td>
</tr>
<tr>
<td>2014</td>
<td>8497</td>
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</table>

Preliminary Data Compiled 2015 - LCDR Amy Freeland, USPHS
Rates of AGE Illness in Guests and Crew on Cruise Ships in the United States, 2008-2014

<table>
<thead>
<tr>
<th>Year</th>
<th>Guest Rate</th>
<th>Crew Rate</th>
<th>Guest Outbreaks</th>
<th>Crew Outbreaks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>27.34</td>
<td>21.3</td>
<td>4.64</td>
<td>0.26</td>
</tr>
<tr>
<td>2009</td>
<td>22.58</td>
<td>19.69</td>
<td>4.28</td>
<td>0.8</td>
</tr>
<tr>
<td>2010</td>
<td>26.6</td>
<td>20.86</td>
<td>4.33</td>
<td>0.51</td>
</tr>
<tr>
<td>2011</td>
<td>22.97</td>
<td>19.58</td>
<td>3.8</td>
<td>0</td>
</tr>
<tr>
<td>2012</td>
<td>26.42</td>
<td>20.46</td>
<td>7.72</td>
<td>0.25</td>
</tr>
<tr>
<td>2013</td>
<td>21.12</td>
<td>19.34</td>
<td>4.73</td>
<td>0.25</td>
</tr>
<tr>
<td>2014</td>
<td>22.4</td>
<td>21.64</td>
<td>3.27</td>
<td>0.7</td>
</tr>
</tbody>
</table>

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Causative agent of AGE outbreaks on cruise ships in the United States, 2008-2014

NOTE: Includes only voyages with a cumulative case count of greater than or equal to 3% in either guest or crew populations

Preliminary Data Compiled 2015 - LCDR Amy Freeland, USPHS
Summary

- **76 million guests between 2008-2014**
  - 0.18% guests met VSP’s AGE case definition
  - 0.15% crew met VSP’s AGE case definition
- **90.3% of AGE outbreaks caused by norovirus**
- **180,824 guest and crew cases between 2008-2014**
- **Of estimated 20 million cases of norovirus in US per year, cruise ship AGE cases comprise only 0.15% of total all cases**
VSP Program Components

- Inspections
- Surveillance & Outbreak Investigations
- Construction
Plan Review/Construction Inspections
VSP Program Components

- Inspections
- Surveillance & Outbreak Investigation
- Consultation on Construction
- Training & Consultation
VSP – International Consultation

General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ) of the People’s Republic of China
Vessel Sanitation Program

Charting a Healthier Course