

## Cruise Ship Outbreaks\* by Year\*\*

### 1994

| Ship Name                 | Date(s) of Outbreak | Causative Agent       |
|---------------------------|---------------------|-----------------------|
| <i>American Adventure</i> | 12/26/93-2/2/94     | Shigella flexneri     |
| <i>Regent Rainbow</i>     | 3/18/94-4/1/94      | Viral gastroenteritis |
| <i>Starship Oceanic</i>   | 6/13/94-6/17/94     | Norovirus             |
| <i>Horizon</i>            | 7/19/94-7/21/94     | Legionella            |
| <i>Viking Serenade</i>    | 8/29/97-9/1/97      | Shigella flexneri     |

### 1995

| Ship Name            | Date(s) of Outbreak | Causative Agent                |
|----------------------|---------------------|--------------------------------|
| <i>Crown Odyssey</i> | 1/12/95-1/26/95     | Enterotoxigenic E. coli (ETEC) |
| <i>Fantasy</i>       | 4/30/95-5/4/95      | Shigella sonnei                |
| <i>Horizon</i>       | 7/15/95-7/22/95     | Salmonella                     |

### 1996

| Ship Name             | Date(s) of Outbreak | Causative Agent                |
|-----------------------|---------------------|--------------------------------|
| <i>Royal Princess</i> | 3/15/96-3/26/96     | Enterotoxigenic E. coli (ETEC) |
| <i>Noordam</i>        | 4/27/96-5/11/96     | Norovirus                      |
| <i>Jubilee</i>        | 6/16/96-6/23/96     | Norovirus                      |

### 1997

| Ship Name                | Date(s) of Outbreak | Causative Agent                |
|--------------------------|---------------------|--------------------------------|
| <i>Nantucket Clipper</i> | 2/8/97-2/15/97      | Norovirus                      |
| <i>Regal Princess</i>    | 2/13/97-2/28/97     | Specimens not obtained         |
| <i>Royal Odyssey</i>     | 3/4/97-3/14/97      | Norovirus                      |
| <i>Royal Odyssey</i>     | 3/25/97-4/14/97     | Norovirus                      |
| <i>Noordam</i>           | 3/29/97-4/5/97      | Cyclospora                     |
| <i>Royal Princess</i>    | 4/15/97-4/19/97     | Enterotoxigenic E. coli (ETEC) |
| <i>Nantucket Clipper</i> | 10/23/97-10/30/97   | Norovirus                      |
| <i>Zenith</i>            | 12/5/97-12/15/97    | Specimens not obtained         |
| <i>Regal Empress</i>     | 12/17/97-12/21/97   | Enterotoxigenic E. coli (ETEC) |

### 1998

| Ship Name   | Date(s) of Outbreak | Causative Agent                |
|---|---------------------|--------------------------------|
| <i>Legend of the Seas</i>                                   | 2/28/98-3/11/98     | Norovirus                      |
| <i>Statendam</i>  | 3/29/98-4/8/98      | Specimens not obtained         |
| <i>Ocean Breeze</i>   | 5/17/98-5/24/98     | Enterotoxigenic E. coli (ETEC) |
| Outside of US, investigation done at request of cruise line |                     |                                |

|                           |                   |                        |
|---------------------------|-------------------|------------------------|
| <i>Regal Princess</i>     | 6/7/98-6/14/98    | Norovirus              |
| <i>Regal Princess</i>     | 6/14/98-6/21/98   | Norovirus              |
| <i>Regal Princess</i>     | 6/21/98-6/28/98   | Norovirus              |
| <i>Norway</i>             | 10/10/98-10/24/98 | Norovirus              |
| <i>Vision of the Seas</i> | 11/28/98-12/7/98  | Specimens not obtained |

**1999**

| <b>Ship Name</b>         | <b>Date(s) of Outbreak</b> | <b>Causative Agent</b> |
|--------------------------|----------------------------|------------------------|
| <i>Nantucket Clipper</i> | 1/2/99-1/9/99              | Norovirus              |
| <i>Nantucket Clipper</i> | 1/9/99-1/16/99             | Norovirus              |
| <i>Nantucket Clipper</i> | 1/16/99-1/23/99            | Norovirus              |
| <i>Nantucket Clipper</i> | 1/23/99-1/28/99            | Norovirus              |
| <i>Nantucket Clipper</i> | 1/30/99-2/6/99             | Norovirus              |

**2000**

| <b>Ship Name</b>             | <b>Date(s) of Outbreak</b> | <b>Causative Agent</b> |
|------------------------------|----------------------------|------------------------|
| <i>Nantucket Clipper</i>     | 1/15/00-1/22/00            | Norovirus              |
| <i>Nantucket Clipper</i>     | 1/22/00-1/29/00            | Norovirus              |
| <i>Palm Beach Princess</i>   | 1/2000                     | Specimens not obtained |
| <i>Nantucket Clipper</i>     | 2/5/00-2/12/00             | Norovirus              |
| <i>Spirit of Glacier Bay</i> | 5/2000                     | Norovirus              |
| <i>Disney Magic</i>          | 6/2000                     | Salmonella             |

**2001**

| <b>Ship Name</b>         | <b>Date(s) of Outbreak</b> | <b>Causative Agent</b> |
|--------------------------|----------------------------|------------------------|
| <i>Arabella</i>          | 2/2001                     | Specimens not obtained |
| <i>Oriana</i>            | 3/2001                     | Specimens not obtained |
| <i>Coronia</i>           | 3/2001                     | Norovirus              |
| <i>Norwegian Sky</i>     | 4/2001                     | Norovirus              |
| <i>Imagination</i>       | 7/2001                     | Specimens not obtained |
| <i>Mississippi Queen</i> | 8/2001                     | Norovirus              |
| <i>Nantucket Clipper</i> | 9/2001                     | Norovirus              |

**2002**

| <b>Ship Name</b>         | <b>Date(s) of Outbreak</b> | <b>Causative Agent</b>                   |
|--------------------------|----------------------------|--|
| <i>Wind Surf</i>         | 1/2002                     | Specimens not obtained                   |
| <i>Albatross</i>         | 2/2002                     | Specimens not obtained                   |
| <i>Seabourne Pride</i>   | 2/2002                     | Specimens not obtained                   |
| <i>Carnival Pride</i>    | 3/2002                     | Norovirus                                |
| <i>Nantucket Clipper</i> | 3/2002                     | Norovirus                                |
| <i>Caronia</i>           | 4/2002                     | Enterotoxigenic E. coli (ETEC) /Shigella |

|                           |         |                        |
|---------------------------|---------|------------------------|
| <i>Amsterdam</i>          | 4/2002  | Specimens not obtained |
| <i>Ryndam</i>             | 4/2002  | Norovirus              |
| <i>Ocean Princess</i>     | 5/2002  | Norovirus              |
| <i>Ryndam</i>             | 7/2002  | Norovirus              |
| <i>Yorktown Clipper</i>   | 8/2002  | Specimens not obtained |
| <i>Norwegian Sun</i>      | 8/2002  | Specimens not obtained |
| <i>Norwegian Dream</i>    | 9/2002  | Shigella, Giardia      |
| <i>Norwegian Sun</i>      | 10/2002 | Norovirus              |
| <i>Nantucket Clipper</i>  | 10/2002 | Sappovirus             |
| <i>Amsterdam</i>          | 10/2002 | Norovirus              |
| <i>Amsterdam</i>          | 11/2002 | Norovirus              |
| <i>Seabourne Pride</i>    | 11/2002 | Specimens not obtained |
| <i>Disney Magic</i>       | 11/2002 | Norovirus              |
| <i>Fascination</i>        | 11/2002 | Norovirus              |
| <i>Constellation</i>      | 11/2002 | Norovirus              |
| <i>Seven Seas Mariner</i> | 12/2002 | Salmonella             |
| <i>Oceana</i>             | 12/2002 | Norovirus              |
| <i>Carnival Conquest</i>  | 12/2002 | Norovirus              |

### 2003

| <b>Ship Name</b>            | <b>Date(s) of Outbreak</b> | <b>Causative Agent</b> |
|-----------------------------|----------------------------|------------------------|
| <i>Nantucket Clipper</i>    | 1/2003                     | Specimens not obtained |
| <i>Arabella</i>             | 1/2003                     | Specimens not obtained |
| <i>Norway</i>               | 1/2003                     | Norovirus              |
| <i>Queen Elizabeth II</i>   | 1/2003                     | Norovirus              |
| <i>Regal Empress</i>        | 1/2003                     | Pending                |
| <i>Olympia Voyager</i>      | 1/2003                     | Pending                |
| <i>Carnival Spirit</i>      | 1/2003                     | Norovirus              |
| <i>Sun Dream</i>            | 1/2003                     | Norovirus              |
| <i>Sun Princess</i>         | 1/2003                     | Norovirus              |
| <i>Majesty</i>              | 1/2003                     | Unknown***             |
| <i>Sun Dream</i>            | 2/2003                     | Norovirus              |
| <i>Vision of the Seas</i>   | 2/2003                     | Norovirus              |
| <i>Melody</i>               | 3/2003                     | Norovirus              |
| <i>Nantucket Clipper</i>    | 3/2003                     | Specimens not obtained |
| <i>Norwegian Dream</i>      | 3/2003                     | Norovirus              |
| <i>Nippon Maru</i>          | 4/2003                     | Unknown                |
| <i>Royal Princess</i>       | 4/2003                     | Specimens not obtained |
| <i>Norwegian Sky</i>        | 5/2003                     | Norovirus              |
| <i>Rhapsody of the Seas</i> | 7/2003                     | Specimens not obtained |
| <i>Star Princess</i>        | 7/2003                     | Norovirus              |
| <i>Star Princess</i>        | 8/2003                     | Norovirus              |
| <i>Regal Princess</i>       | 8/2003                     | Norovirus              |
| <i>Clipper Odyssey</i>      | 8/2003                     | Specimens not obtained |

|                          |         |                        |
|--------------------------|---------|------------------------|
| <i>Norwegian Star</i>    | 9/2003  | Specimens not obtained |
| <i>Carnival Holiday</i>  | 10/2003 | Norovirus              |
| <i>Carnival Holiday</i>  | 10/2003 | Norovirus              |
| <i>Nantucket Clipper</i> | 10/2003 | Specimens not obtained |
| <i>Carnival Legend</i>   | 11/2003 | Norovirus              |
| <i>Carnival Legend</i>   | 11/2003 | Norovirus              |
| <i>Volendam</i>          | 12/2003 | Norovirus              |

## 2004

| <b>Ship Name</b>              | <b>Date(s) of Outbreak</b> | <b>Causative Agent</b> |
|-------------------------------|----------------------------|------------------------|
| <i>Legacy</i>                 | 12/27/03-1/3/04            | Specimens not obtained |
| <i>Legacy</i>                 | 1/9/2004                   | Specimens not obtained |
| <i>Coral Princess</i>         | 1/21/2004                  | Norovirus              |
| <i>Queen Elizabeth 2</i>      | 1/19/2004                  | Specimens not obtained |
| <i>Ryndam</i>                 | 2/12/2004                  | Norovirus              |
| <i>Carnival Celebration</i>   | 2/13/2004                  | Norovirus              |
| <i>The World</i>              | 2/23/2004                  | Specimens not obtained |
| <i>Queen Elizabeth 2</i>      | 2/25/2004                  | Pending                |
| <i>Brilliance of the Seas</i> | 2/25/2004                  | Norovirus              |
| <i>Queen Mary 2</i>           | 3/3/2004                   | Norovirus              |
| <i>Oriana</i>                 | 3/4/2004                   | Norovirus              |
| <i>Royal Princess</i>         | 3/8-3/25                   | Unknown                |
| <i>Norwegian Crown</i>        | 3/7-3/22                   | Norovirus              |
| <i>Norwegian Crown</i>        | 3/22-4/4                   | Norovirus              |
| <i>Horizon</i>                | 3/22-4/2                   | Norovirus              |
| <i>Zenith</i>                 | 3/28-4/11                  | Norovirus              |
| <i>Amsterdam</i>              | 3/31-4/17                  | ETEC                   |
| <i>Rotterdam</i>              | 4/2-4/15                   | Pending                |
| <i>Norwegian Wind</i>         | 4/17-5/2                   | Specimens not obtained |
| <i>Veendam</i>                | 4/17-5/5                   | Norovirus              |
| <i>Norwegian Crown</i>        | 4/25-5/2                   | Norovirus              |
| <i>Norwegian Crown</i>        | 5/2-5/9                    | Pending                |
| <i>Island Princess</i>        | 5/29-6/5                   | Pending                |
| <i>Island Princess</i>        | 6/5-6/12                   | Pending                |
| <i>Serenade of the Seas</i>   | 6/6-6/13                   | Pending                |
| <i>Pacific Princess</i>       | 7/25-8/17                  | Unknown                |
| <i>Silver Shadow</i>          | 7/26-8/6                   | Pending                |
| <i>Nantucket Clipper</i>      | 8/3-8/11                   | Specimens not obtained |
| <i>Sun Princess</i>           | 9/6-9/13                   | Norovirus              |
| <i>Sun Princess</i>           | 9/13-9/20                  | Pending                |
| <i>Regal Princess</i>         | 9/11-9/21                  | Pending                |
| <i>Veendam</i>                | 9/26-10/14                 | Pending                |

## Key

**\*Outbreak of gastrointestinal illness** – An outbreak is defined as a cumulative percentage of reportable cases of gastrointestinal illness of  $\geq 3$  percent in either passenger or crew populations.

**Reportable case of gastrointestinal illness** – A reportable case is defined as 3 or more episodes of loose stool (diarrhea) in a 24-hour period that is unrelated to a preexisting medical condition; or vomiting and one additional symptom including, one or more loose stools in a 24-hours period, or abdominal cramps, or headache, or muscle aches, or fever

Note: This case definition is used for identifying and classifying cases, both of which are done for reporting purposes. It should not be used as criteria for clinical intervention or public health action. For many conditions of public health importance, actions to contain disease are initiated as soon as a problem is identified; in many circumstances, appropriate public health action is taken even though insufficient information is available to determine whether cases meet the case definition. Nausea, although a common symptom of gastrointestinal illness, is specifically excluded from this definition to avoid misclassifying seasickness (nausea and vomiting) as gastroenteritis.

\*\* Data are arranged by calendar year.

\*\*\*Unknown: Specimens obtained but the causative agent is unknown.