Gastroenteritis in Ketchikan – Interim Report #2

Illness Spreads to Other Communities

We recently reported on a large ongoing outbreak of gastrointestinal illness in Ketchikan, most likely caused by Norwalk-like virus (NLV). Since then, similar clusters of gastrointestinal illness have been reported from Juneau and Craig. In addition, an outbreak of vomiting and diarrhea in an Anchorage daycare center in October was recently confirmed as NLV.

Ketchikan: As of December 16, questionnaires were completed on 200 case-patients in Ketchikan. The median age was 22 years; the range was 1 month to 93 years, 130 (65%) were female.

The mean duration of illness was 2 days. 43 (22%) saw a health care provider; 2 (1%) were hospitalized. 17 (9%) were given prescription medications for their illness. 157 (79%) had household contacts with a similar illness, and 73 (37%) had contact with children in a childcare setting during the seven days before illness. An outbreak of similar illness occurred at a naval camp near Ketchikan (SEAFAC) during the first week of November. Figure 1 shows onset dates of case-patients from Ketchikan, as well as SEAFAC personnel and their household contacts. The first case-patient at SEAFAC became ill on November 3; he had flown in that day from Bellingham, WA. Several SEAFAC patients were Ketchikan residents.

Juneau: 18 members of a Juneau dance troupe, including some of their chaperones, became ill with nausea, vomiting and diarrhea from December 6 to 10. Illness lasted 48 hours. The troupe traveled by ferry to Wrangell on December 4 and may have been exposed while onboard. Department of Environmental Conservation sanitarians worked with the two ferries on which the troupe traveled to assure that thorough disinfection and sanitation procedures were conducted. The investigation is continuing.

Craig: Over 75 elementary students were absent during several days in November with nausea, vomiting and diarrhea. Students from the middle school and high school also reported similar illness.

An NLV strain similar to that seen on recent cruise ship outbreaks was found in an Anchorage daycare. Secondary spread to the community points to the ease with which the virus is spread through person-to-person transmission. Alaskans may face further outbreaks of NLV in other areas of the state as residents travel during the Holiday Season. Outbreaks of NLV have been reported in parts of Canada and the Lower 48 states, as well as several cruise ships.

The most immediate and effective way to prevent or decrease the spread of NLV is through frequent and meticulous hand washing. Food establishments should remind employees about the need for frequent hand washing and review proper hand washing procedures with their employees. Ill food handlers, bartenders and waitresses who have gastrointestinal symptoms should not work. In addition, food establishments should not allow any workers who have been sick with gastrointestinal symptoms to return to work until they have been free of symptoms for at least 72 hours.

Bulletins addressing NLV outbreaks with previous recommendations as well as an NLV Fact Sheet are available at our website: http://www.epi.hss.state.ak.us.

Recommendations:
1. Families with illness compatible with NLV (nausea, vomiting, diarrhea) should emphasize frequent hand washing for all family members. Persons who have gastrointestinal symptoms should not prepare meals and/or party foods.
2. Where illness has been observed, cleanup should use chlorine bleach at higher than normal concentration after episodes of vomiting (5000 ppm = 2 1/2 cups/gallon). Hard surfaces (counter tops, bathroom surfaces, doorknobs, handrails, telephones and floors) should be cleaned and then disinfected daily using chlorine bleach (1000 ppm = ½ cup/gallon).
3. Food establishments should prevent employees with gastrointestinal symptoms from working. Employees should not work for at least 72 hours after symptoms have resolved.
4. Clusters of any gastrointestinal illness should be reported to the Section of Epidemiology during working hours (907-269-8000) or after hours (1-800-478-0084).

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