

Norovirus outbreaks in long-term care facilities

Norovirus infection causes nausea, vomiting, diarrhea, muscle aches, fever and abdominal cramps, which can result in dehydration. Symptoms typically resolve within a day but can remain for up to three days. Norovirus is highly transmissible and persons typically get norovirus by eating contaminated food containing infected stool or vomit particles.

The Oregon State Public Health Laboratory (OSPHL) began genotyping specimens associated with gastrointestinal outbreaks in late 2012. As shown in the figure, norovirus genogroup GII genotype 4 New Orleans was predominant in 2011 and 2012 accounting for 31 (25%) of 123 total confirmed norovirus outbreaks among Oregon long-term care facilities (LTCF). In late 2012, a new norovirus strain of genogroup GII, genotype 4 originating in Sydney, Australia (GII.4 Sydney 2012), became the predominant norovirus strain and caused a severe norovirus season globally and in the US. In 2013, GII.4 Sydney was responsible for 42 (48%) of 87 confirmed norovirus outbreaks among Oregon LTCF's. GII.4 Sydney has remained the dominant outbreak strain since 2013. In 2015, we saw an increase in other GI genotype outbreaks.

Norovirus sequences in Oregon LTCFs, 2011–2015

