

# VACCINE POINTS

“Vaccine Points” is a bi-monthly communication distributed by the Hawaii Department of Health to all participating Vaccines for Children (VFC) providers.

Test your vaccine knowledge.

Question: Which of the following statements regarding mumps are true? Select all that apply.

- a) Besides mumps, other infectious causes of parotitis include Epstein-Barr virus, cytomegalovirus, parainfluenza viruses, influenza A virus, enteroviruses, lymphocytic choriomeningitis virus, and HIV
- b) Documentation of one valid dose of live mumps virus containing vaccine is acceptable as presumptive evidence of immunity for a 20 year old international traveler
- c) Orchitis is a commonly reported complication in post-pubertal males and leads to sterility in the majority of cases
- d) In a vaccinated person, a diagnosis of mumps infection can be ruled out with a negative serum IgM result
- e) The contagiousness of mumps is similar to measles or varicella

Source:

American Academy of Pediatrics. [Mumps]. 2015 Red Book, pages 564-565.  
Centers for Disease Control and Prevention. [Prevention of Measles, Rubella, Congenital Rubella Syndrome and Mumps 2013]. MMWR 2013;62(No. RR-4):[page 6 and page 19]. <http://www.cdc.gov/mmwr/pdf/rr/rr6204.pdf>  
Immunization Action Coalition, Ask the Experts: [http://www.immunize.org/askexperts/experts\\_mmr.asp#disease](http://www.immunize.org/askexperts/experts_mmr.asp#disease)

Answer: a

Mumps is a RNA virus in the *Paramyxoviridae* family. Other infectious causes of parotitis include Epstein-Barr virus, cytomegalovirus, parainfluenza viruses, influenza A virus, enteroviruses, lymphocytic choriomeningitis virus, HIV, nontuberculous mycobacterium, gram-positive bacteria, and less often, gram-negative bacteria.  
Acceptable presumptive evidence of immunity to mumps for international travelers includes:  
• Documented administration of 2 doses of live mumps virus containing vaccine  
• Laboratory evidence of immunity  
• Laboratory confirmation of disease  
• Born before 1957  
Mumps orchitis is a commonly reported complication in post-pubertal males, although sterility rarely results. In immunized people, a negative IgM result does not rule out mumps. The contagiousness of mumps is similar to that of influenza and rubella, but is less than that for measles or varicella.

