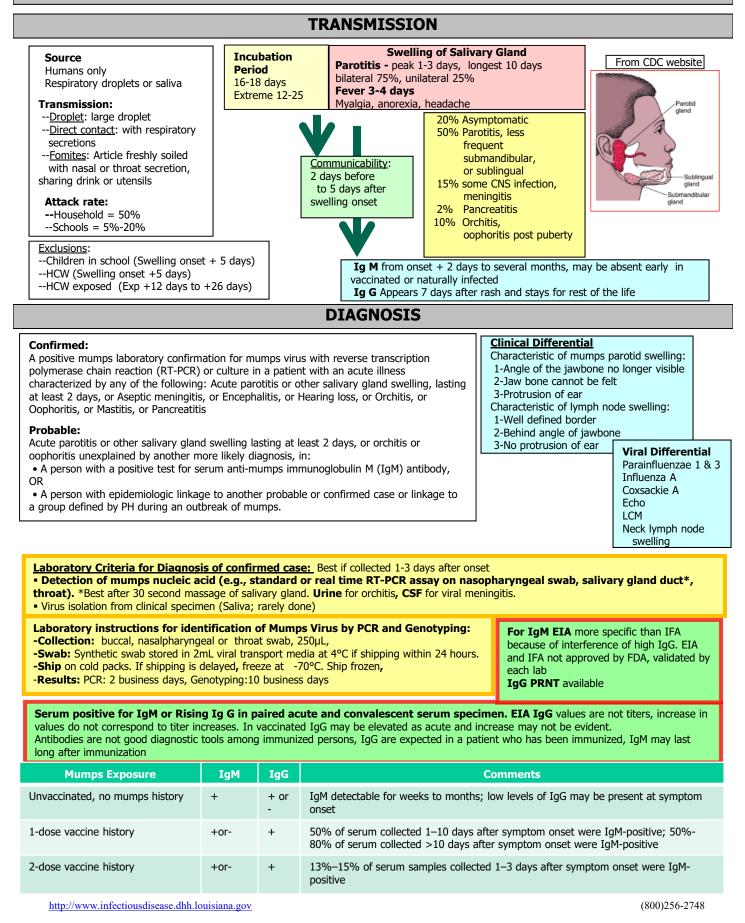
MUMPS



CONTROL, OUTBREAK INVESTIGATION

CASE INVESTIGATION

--Report case to OPH within 24 hours.

--Keep case out of school/group for 9 days after swelling appears.

--See Outbreak investigation below

OUTBREAK INVESTIGATION

--OUTBREAK =3 or more cases linked by time & place

--Outbreak setting: populations in high transmission settings (elementary, middle and high schools, colleges, camps. Even if high proportion of vaccinated

--Early intervention reduce magnitude of outbreak

--Report to OPH within 1 business day; In case of an outbreak report cases as immediately

--MAIN GOAL: Identify population at risk and transmission settings and vaccinate those without immunity

--Persons at high risk are: unvaccinated, single dose recipient, close oral contact...

--Third dose of MMR for person at increased risk of infection even if properly vaccinated (ACIP Oct 2017). If already infected, 3rd dose will not prevent disease but will prevent infection in those not yet exposed or infected (CDC)

--Strict segregation of cases

--Exclusion of susceptible persons up to 26 days after onset of the last person with mumps for person with no vaccines, persons exempted for medical, religious and other reasons may be considered (CDC) --Institutional outbreak: Vaccine or immunoglobulin to new admissions.

--Healthcare facility: Professionals in contact with the patients should be immunized (MMR) --Search for and immunization of exposed susceptible should be carried out.

Prevention and control strategies in healthcare settings (In-patients, outpatients, LTCF

--Assessment of presumptive evidence of immunity of healthcare personnel, including documented administration of 2 doses of MMR, laboratory evidence of immunity or laboratory confirmation of disease, or birth before 1957 vaccination of those without evidence of immunity;

--Exclusion of healthcare personnel with active mumps illness, healthcare personnel who do not have presumptive evidence of immunity who are exposed to persons with mumps;

--Isolation of patients in whom mumps is suspected; and

--Implementation of droplet precautions, in addition to standard precautions.

--Healthcare Infection Control Practices Advisory Committee (HICPAC) and CDC recommend secure, computerized, systems to be used to manage vaccination records for HCP for easy retrieval.

--Facilities should review employee evidence of immunity status for mumps and other vaccine preventable infections and should provide MMR vaccine to all personnel without evidence immunity at no charge.

Healthcare personnel (HCP): presumptive evidence of immunity

Presumptive evidence of immunity criteria for HCP differs slightly from the criteria for community settings. Criteria to assess presumptive evidence of immunity among healthcare personnel. --Written documentation of vaccination with 2 doses of live mumps or MMR vaccine administered at least

28 days apart --Laboratory evidence of immunity

--Laboratory confirmation of disease

--Birth before 1957

Management of healthcare personnel with illness due to mumps

Consider mumps diagnosis in exposed HCP who develop <u>non-specific respiratory infection</u> symptoms during the incubation period after unprotected exposures to mumps, even in the absence of parotitis. HCP with mumps illness should be <u>excluded for 5 days after the onset of parotitis</u>.

Management of healthcare personnel who are exposed to persons with mumps

<u>Unprotected exposures</u> = being within 3 feet of a patient with a diagnosis of mumps without the use of proper PPE. Irrespective of immune status, all exposed HCP should report any symptoms during the incubation period, from day 12 to day 25 after exposure.

For HCP who do not have acceptable presumptive evidence of immunity:

--HCP without evidence of immunity should be excluded from the 12th day after the first unprotected exposure to mumps through the 25th day after the last exposure.

--Previously unvaccinated HCP who receive a first dose of vaccine after an exposure are considered nonimmune and should be excluded from day 12 after exposure to day 25 after last exposure. The mumps vaccine cannot be used to prevent the development of mumps after exposure.

For HCP with partial vaccination: previously vaccinated for mumps with only 1 MMR may continue working following an unprotected exposure to mumps. Administer a second dose ASAP, but no sooner than 28 days after first dose. Notify occupational health if they develop symptoms.

For HCP who have presumptive evidence of immunity: do not need to be excluded from work following an unprotected exposure. Some vaccinated personnel may remain at risk for mumps and steps should be taken to reduce the risk of infection. So HCP should notify occupational health if they develop these symptoms.

Reference: https://www.cdc.gov/vaccines/pubs/surv-manual/chpt09-mumps.html

VACCINE RECOMMENDATION Childhood Vaccine 1 dose -No monovalent vaccine 78% -Two MMR vaccine 2 doses (at least 1 month apart) 88% Recommended age: ---1st dose at 12-15 months ---2nd dose at 4-6 years OR MMRV at 12mos-12yrs but 1/2500 seizure risk Adult born 1957 or after -High risk: (post High school, college, International travel, Healthcare work: Two MMR -Others: One MMR Outbreak -One additional MMR PRESUMED IMMUNE -MMR after 12mos, written doc -Lab evidence of immunity -Birth before 1957 Treatment: Supportive Report Case to OPH Contact investigations for in-flight transmission of mumps of any duration, showed the risk was low 1 NO contact investigations for mumps on flights. Prophylaxis of the exposed: --Vaccination within 72 hours of exposure --Immunoglobulin within 6 days of exposure Household contacts Healthcare facility contacts • Institutional contacts (Child daycare center, School)

> Live vaccine in 72 hr Immunoglobulin if live vaccine is contraindicated -----

- Children < 1-year age
- Pregnant women
- Immunocompromised person

http://www.infectiousdisease.dhh.louisiana.gov