**CHLA HOSPITAL POLICY AND PROCEDURE MANUA**L

**Algorithm for Management of Measles Exposure**

**ORIGINAL DATE:** 4/98

**REVISED DATE**: 10/20

**POLICY NUMBER: IC -** 303.1 **CHAPTER:** Infection Control

**APPROVED BY:** Hospital Infection Control Committee

* **Notify Infection Control Ext 15510**

After hours/holidays/weekends contact ID physician on call and leave a message on the IC voicemail

* Begin collecting names of exposed contacts
* After hours contact LACDPH to report case (213) 240-7941

Identify Index Case

**Confirmed**

* Measles IgM in oral fluid or blood or
* Isolation of measles virus or detection of RNA in clinical samples e.g. blood, urine, conjunctival or nasopharyngeal secretions or Fourfold or greater rise in
* Measles IgG in blood or a single high level

**Probable**

Index of suspicion is high:

* A fever greater than or equal to 101.0 degrees F
* Cough, coryza, or conjunctivitis followed by a generalized Rash greater than or equal to 3 days

●Vaccination history (unvaccinated or delayed vaccination)

●History of international travel

●Contact with foreign visitors

●Possible exposure to Measles patient in the past 3 weeks

Is the index Case Infectious?

Infectious Period

1. 4 days prior to 4 days after onset of rash
2. Immunocompromised patients: entire course of illness

**Identify Exposed Contacts** (patients, employees/ Students, visitors)

No

No Action

Yes

Determine who among the exposed is **susceptible**: (<1 year old, immunocompromised, non-immunized against measles)

No Give second dose of MMR if first dose was received more than one month ago

Patients

Yes

* MMR within 3 days of exposure (≥12 months) note: MMR should not be administered to severely immunocompromised patients

Monitor for symptoms and isolate in Airborne Precautions from day 5-21 after last exposure

* IGIV (within 6 days of exposure)

Appropriate work restrictions if active disease

CHLA Team Members

●Off work for incubation period, 5- 21 days following exposure if not given vaccine within 72 hours following exposure

Employee contacts EHS for clearance to return to work

No

No Action

Yes

Limit or restrict hospital visitation for incubation period

Visitors

No

No Action

Yes

**IC - 303.1 Measles Flowchart**

**Algorithm for Management of Measles Exposure**

1. **Identify Index Case:**
   * **Confirmed:**
     + If Measles IgM is detected in oral fluid or blood, then confirm measles.
     + If isolation of measles virus or detection of RNA in clinical samples (e.g., blood, urine, conjunctival, or nasopharyngeal secretions) is achieved, then confirm measles.
     + If there is a fourfold or greater rise in Measles IgG in blood or a single high level, then confirm measles.
   * **Probable:**
     + If there is a high index of suspicion characterized by:
       - Fever ≥ 101.0°F,
       - Cough, coryza, or conjunctivitis followed by a generalized rash ≥ 3 days,
       - Unvaccinated or delayed vaccination history,
       - History of international travel,
       - Contact with foreign visitors,
       - Possible exposure to a measles patient in the past 3 weeks,
     + Then consider measles probable.
2. **Is the Index Case Infectious?**
   * If the index case is within the infectious period (4 days prior to and 4 days after the onset of rash), then the case is infectious.
   * If the patient is immunocompromised, then consider them infectious for the entire course of illness.
3. **Identify Exposed Contacts:**
   * If contacts include patients, employees, students, or visitors, then identify who among them is susceptible.
   * If contacts are <1 year old, immunocompromised, or non-immunized against measles, then consider them susceptible.
4. **Actions for Susceptible Contacts:**
   * If contacts are susceptible, then monitor for symptoms and isolate in Airborne Precautions from day 5-21 after the last exposure.
   * If active disease is present, then impose appropriate work restrictions.
5. **CHLA Team Members:**
   * If exposed and not given vaccine within 72 hours following exposure, then remain off work for the incubation period (5-21 days).
   * If returning to work, then employee contacts EHS for clearance.
6. **Visitors:**
   * If exposed, then limit or restrict hospital visitation for the incubation period.
7. **Notifications:**
   * If a measles case is identified, then notify Infection Control at Ext 15510.
   * If after hours/holidays/weekends, then contact ID physician on call and leave a message on the IC voicemail.
   * If a measles case is identified, then begin collecting names of exposed contacts.
   * If after hours, then contact LACDPH to report the case at (213) 240-7941.
8. **Administer MMR or IGIV:**
   * If the first dose of MMR was received more than one month ago, then give the second dose.
   * If within 3 days of exposure (≥12 months), then administer MMR unless severely immunocompromised.
   * If within 6 days of exposure, then administer IGIV.