

San Francisco Department of Public Health Barbara A Garcia, MPA Director of Health Tomás J. Aragón, MD, DrPH Health Officer

Communicable Disease Control & Prevention

sfdph.org/cdcp

Tel (415) 554-2830 Fax (415) 554-2848

RESPONSE TO COMMUNICABLE DISEASES

A QUICK GUIDE FOR SAN FRANCISCO CLINICIANS

Measles (Rubeola)

SITUATION

This guide is pertinent if measles (Rubeola) is a suspected etiology of your patient's presentation. A classic presentation includes fever, malaise, **cough, coryza, conjunctivitis** preceding the rash. The rash is usually erythematous and maculopapular, begins on the face and upper neck, and progresses downward and outward. Pathognomonic oral lesions, Koplik spots (tiny white lesions on a red center usually on buccal mucosa (www.cmaj.ca/content/180/5/583) may be visible prior to rash onset. Consider measles in patients with: fever and maculopapular rash, especially if unvaccinated (but cases in vaccinated persons have also occurred) known exposure to a case of measles, recent international travel (including Europe), or exposure to a visitor from abroad. For a photograph of a measles-like rash, see below or http://www.sfcdcp.org/measles.html

CLINICIAN RESPONSE

1. IMMEDIATELY REPORT THE SUSPECT CASE TO:

SFDPH Communicable Disease Control Unit (CDCU) 24/7 telephone: 415-554-2830 (After hours, follow the instructions to page the on-call MD)

Your Infection Control Professional (ICP—check your institution's directory).

- * Clinicians are requested by CDCU to *immediately* report all suspect cases of measles.
- * Immediate action will be taken by CDCU and ICPs to prevent additional cases.

2. IMPLEMENT APPROPRIATE INFECTION CONTROL PRECAUTIONS

- * Patients are infectious 4 days before rash onset through 4 days after rash onset.
- * Use airborne precautions immediately for all patients with fever and measles-like (maculopapular or morbilliform) rash.
- * Isolate and provide a face mask for the patient to wear
 - Put the patient in a private negative air pressure room; if not possible, mask patient and place in a private room with the door closed. Do not use any regular exam room for at least 2 hours after a suspected measles case has left the room. Routine room cleaning recommended.
 - Anybody entering the patient's room should wear an N95 respirator regardless of prior immunity.
 - Limit movement and transport of the patient; patients should not go to other areas of the facility for blood draws or other tests. If transport is essential, mask the patient.
 - Airborne precautions should be used for any patient with a fever and a measles-like or vesicular rash. Vesicular rash can be indicative of chickenpox or smallpox, both of which require airborne precautions.
- * Work with your ICP (check your institution's directory) to implement precautions. Consult with CDCU for guidance.

3. COORDINATE DIAGNOSTIC TESTING WITH THE CDCU

- * Pursue testing for all suspect cases as soon as possible via Public Health Lab System (not a commercial lab).
- * Measles is best diagnosed by nucleic acid amplification testing from throat, nasopharyngeal or urine specimens. IgM may also be recommended depending on timing of testing.
- * Obtain <u>both</u>: (1) **throat** or **nasopharyngeal swab or aspirate** using a Dacron-tipped swab in **UNIVERSAL VIRAL TRANSPORT MEDIUM** (**not** Stuarts/Amies/other bacterial transport medium) and (2) a **urine sample** in a sterile cup.
- * After consultation with CDCU, transport of specimens to the SFDPH Public Health Laboratory will be arranged.

4. HOME ISOLATE SUSPECTED CASES

* Suspect measles cases should remain in **isolation** at **home** until they are **non-infectious** (4 days after rash onset).

5. HELP IDENTIFY EXPOSED SUSCEPTIBLE CONTACTS

- * Clinicians may have knowledge of staff members and patient's family and friends who may be at risk, and may have their contact information. Clinicians should provide this information to CDCU and their ICPs.
- * CDCU and ICPs are responsible for identifying and managing contacts and for determining who should receive post-exposure prophylaxis (PEP) with MMR vaccine or Immune Globulin and who should be in home quarantine.
- * Clinicians may be asked to provide **PEP** if their patient is identified as an exposed susceptible contact, or provide **laboratory testing for measles immunity** if their patient is a contact unable to provide proof of immunity to measles, or who can't document receipt of 2 doses of measles vaccine.



Photos courtesy of CDC