

# Measles



## Prodrome and Clinical evolution

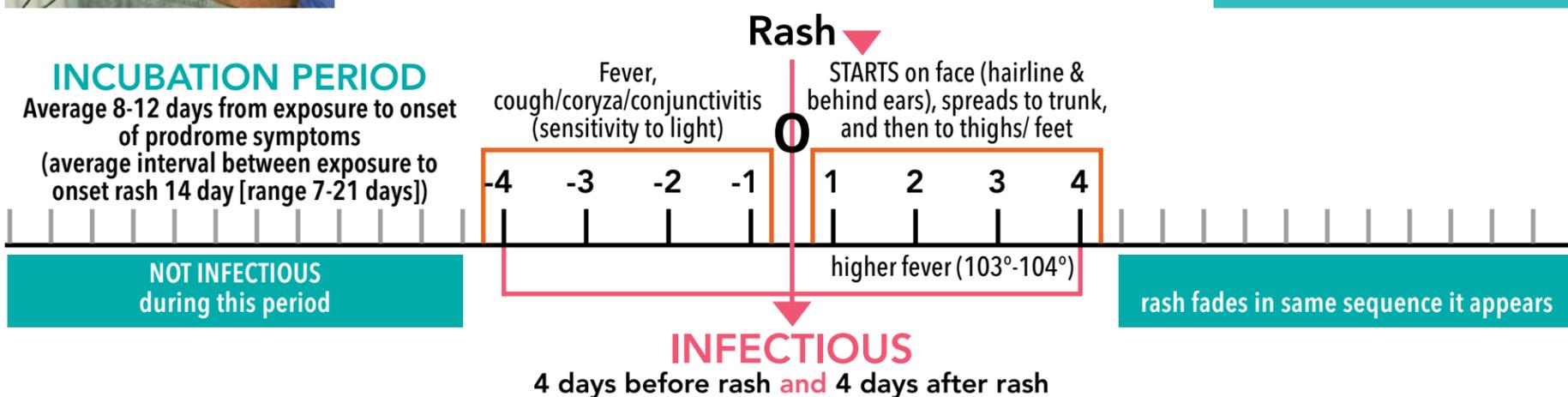
- ▶ Fever (mild to moderate)
- ▶ Cough
- ▶ Coryza
- ▶ Conjunctivitis
- ▶ Fever spikes as high as 105°F
- ▶ Koplik's spots

**Rash** ▶ Erythematous, maculopapular rash which begins on the face (often at hairline and behind ears) then spreads to neck/upper trunk and then to lower trunk and extremities. Evolution of rash 1-3 days. Palms and soles rarely involved.



## Koplik's Spots

▶ Viral enanthem of measles typically starting 1-2 days before the rash. Appearance is similar to "grains of salt on a wet background" and may become less visible as the maculopapular rash develops.



# Not Measles

## Rubella

(Aka German Measles)

### Clinical manifestations ▶

Generally mild illness with low-grade fever, malaise, and lymphadenopathy (commonly post-auricular and sub-occipital).

**Rash** ▶ Resembles measles but the rash is milder, more evanescent, rose-pink, fine and separate spots, discrete.

▶ NO Koplik's spots, coryza, photophobia, or cough.



## Varicella

(Aka Chickenpox)

### Clinical manifestations ▶

Mild prodrome of fever and malaise may occur one to two days before rash. Possible low-grade fever.

**Rash** ▶ Itchy vesicular rash and scabs appear in crops at several stages of maturity.

▶ NO Koplik's spots, coryza, photophobia, or cough.



cervical lymphadenopathy.

**Rash** ▶ Highly variable but often maculopapular with multiforme-like lesions and may resemble scarlet fever.

Rash often associated with painful edema hands and feet.

▶ NO Koplik's spots, coryza, photophobia, or cough.



## Scarlet Fever

(Associated with Streptococcal pharyngitis, aka 'scarlatina')

### Clinical manifestations ▶

Fever, pharyngitis, malaise, chills, headache and cervical lymphadenopathy.

**Enanthem** ▶ Streptococcal pharyngitis and strawberry tongue

**Rash** ▶ Erythema rash that blanches with pressure with small (1-2 mm) papular elevations

resulting in a 'sandpaper' quality of the skin. Rash generally starts in armpits and groin and expands to cover the trunk, followed by extremities. The rash is most marked in skin folds of the inguinal, axillary, antecubital. Linear petechial marks may be seen (Pastia's line) [see figure] Desquamation usually follows.

▶ NO Koplik's spots, coryza, conjunctivitis, photophobia, or cough.



## Fifth Disease

(Aka Erythema Infectiosum or Parvovirus B19)

### Clinical manifestations ▶

Usually nonspecific but can include fever, runny nose, and headache

**Rash** ▶ Generally occurs after the respiratory symptoms and typically starts on face with a solid bright eruption on the face ("slapped cheek"). Within a few days, a 2nd stage rash may occur on trunk and extremities and is initially erythematous and later becomes lace-like and/or reticular.

▶ NO Koplik's spots, coryza, conjunctivitis, photophobia, or cough.



## Kawasaki

(Aka mucocutaneous lymph node syndrome)

### Clinical manifestations ▶

Illness often begins with fever which may be high and spiking lasting several days. Often with conjunctivitis, dry cracked lips, a red "strawberry" tongue, erythema of oropharynx and



## Roseola Infantum

(Often due to HHV-6)

### Clinical manifestations ▶

Sudden onset of high fever lasting 3-5 days. As rash develops

ops may also have malaise, palpebral conjunctivitis, runny nose, vomiting, diarrhea or lymphadenopathy  
**Rash** ▶ As fever subsides, a rash begins on neck and trunk and spreads to extremities. Rose-pink, small and separate spots, discreet, on chest and abdomen.

▶ NO Koplik's spots.



## Other

Several other entities can cause a rash and should be considered in the differential such as meningococemia, enteroviruses, mononucleosis syndrome and drug reaction.

**Members with measles symptoms must be immediately masked and roomed in an isolation or negative pressure room. Consider testing for individuals with classic measles symptoms, regardless of vaccination history, as well as contacts of measles cases with symptoms of varying severity, regardless of vaccine history. If suspected, contact Infection Prevention at x26130 or x22123 or Infectious Diseases on call.**

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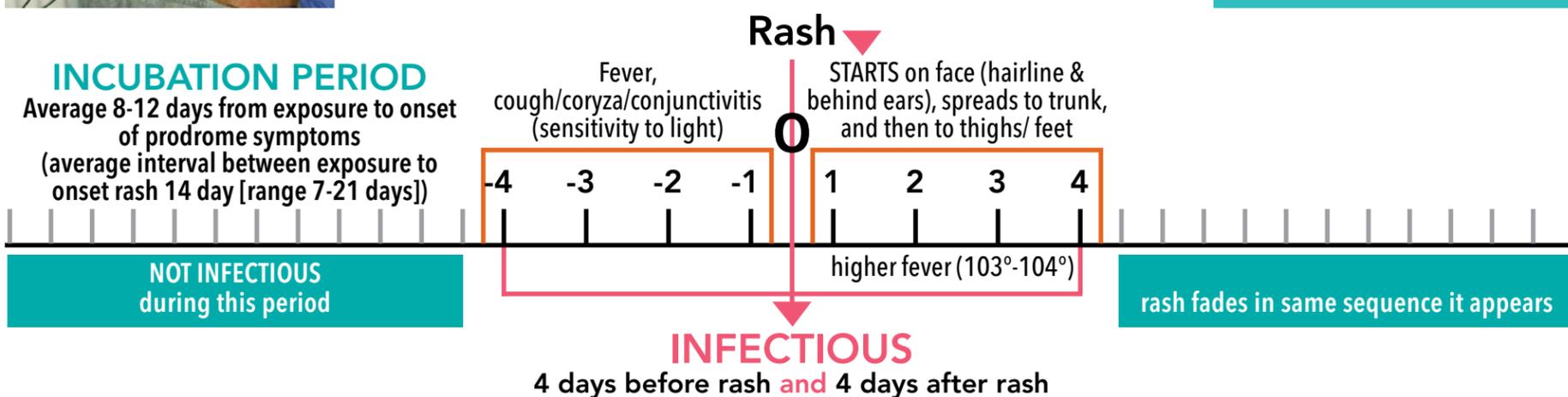
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