

Lesson objectives



By the end of the topic students should be able to:-

- assess health problems according to patient with fever and rashes,
- determine differential diagnosis of patient with fever and rashes,
- provide primary medical prescriptions and care for a patient with fever and

Scope of topic

Problem list

Differential diagnosis

Primary medical prescription







Chief complaints of the patient

A 7-year-old girl came to the hospital with a persistent high temperature, cough 5 days and rashes appealed after 3 days

History taking should attention to the onset rashes associated with symptoms cough, fever, food, clothes or dress up, daily activity, pets, allergic history and immunization.

PE: examine the eyes, ears, oral mucosa, mount cavity, pharynx, chest, heart and skin.

Case study



- A 7-year-old girl came to the hospital with a persistent high temperature, and cough 5 days. After 3 days of onset of fever, parent notices skin rashes appeared on at the hairline and spread downward to the neck, trunk, arms, legs, and feet.
- The parent states that her child has, runny nose, and red, watery eyes.
 - Today the fever is better while the rashes increased.
 - Have no known of drug allergic



Vital Signs

T = 37.5 °C, P = 96 beat/min (bpm), fullness, regular rhythm,

R = 24 bpm,.

BW= 7 kg, Ht.=105 cms.

General

Good consciousness, appears to be uncomfortable but is sitting quietly next the parent.

Head and Face

Symmetry, Normal shape and size, Normal movement **Both eyes found conjunctival injection and watery discharge.**



Ears No discharge

Pinna no mass, No lesion

Mastoid no tenderness

Nose Symmetrical movement,

No abnormal of nasal alar nasal turbinate

Watery discharge

Both maxillary sinus, no tenderness or fullness



Mouth Lip dry,

Buccal mucosa present Koplik's spot at both sides



Tongue - Normal papillae, No sign of inflammation

Pharynx - Slightly injection, no evidence of post nasal drip

Tonsil – no injection

Chest

No adventitious sound No murmur, No bruit

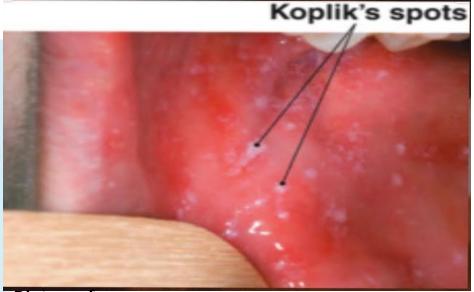
CVS

Peripheral pulses equal, R = L

Abdomen

Soft, no tenderness Liver and spleen not palpable





Picture from: https://i.ytimg.com/vi/gVDpwhnu_hs/maxres default.jpg





<u>Picture from: Measles Rash Early Stages - Bing images</u>

Skin

The rash consists of small red spots, some of which are slightly raised.

Spots and bumps in tight clusters give the skin a blotchy red appearance.

Tureniquet Test: negative

Problem lists



- 1. Low-grade fever 5 days, T = 37.5 °C
- 2. Runny nose, and red, watery eyes.
- Rashes appeared on at the hairline and spread downward
 - 4. T = 37.5 °C,
 - 5. Conjunctival injection and watery discharge BE
 - 6. Nasal water discharge
 - 7. Buccal mucosa present Koplik's spot at both sides,
 - 8. Pharynx slightly injection
 - 9. Small red spots, some of which are slightly raised. Spots and bumps in tight clusters

Differential diagnosis



- **✓** Measles
- 1. Rubella
- 2. Dengue fever

Rubella: X no

Maculo-papular rashes with in 24 hours,

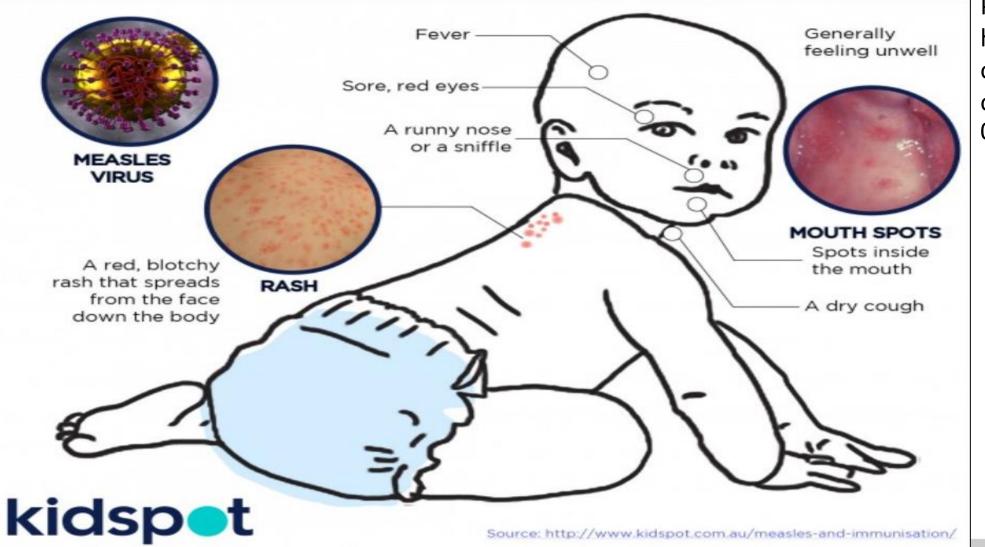
Post-auricular LN, Occipital LN enlarged and mild tender

Dengue fever : X no

Petechial hemorrhage, Tourniquet Test 5 min + ve Convalescent petechial rash nearly or after fever gone away

HOW TO RECOGNISE MEASLES





Pictures from: http://healthlifemedia. com/healthy/wpcontent/uploads/2016/ 01/measles.jpg



Plan for diagnosis

CBC (order by physician doctor)

In this case study no need to submit CBC (according to signs and symptoms clearly)

√ Measles

- 1. Rubella
- 2. Dengue fever,

...Marked WBC, (PMN lymphocyte) RBC, Plt..





Specific treatment

- > No
- Prevention: vaccination: Measles vaccine protects against becoming infected with measles. The CDC recommends children get two doses of the measles vaccine, starting with the first dose at 12 through 15 months of age, and the second dose at ages 4 through 6 years.
- In Thailand, 9 m. and 2.5 years

Symptomatic treatment

- Antihistamine such as
 Chlorpheniramine maleate,
 Cetirizine, Hydroxyzine
 syrup or tab
- Acetaminophen(Paracetamol) syrup or tabq 6-8 hrs. for fever or pain.
- Force clean water





- A 7-year-old girl came to the hospital with fever, and cough 5 days.
- After 3 days of the onset of fever skin rashes appeared on the hairline and spread downward to the neck, trunk, arms, legs, and feet.
- Also, symptoms of runny nose, and red, watery eyes.
- A nature of occurring rashes and buccal mucosa present Koplik's spot at both sides are the evidence for supporting **measles diagnosis**.
- The symptomatic treatment of the gril are antihistamine, and antifever.



Thank You!

