



Rashes

Sept 2014

Rash descriptors

Lesion - Single small diseased area

Rash - Eruption of skin; more than single lesion

Macule - Circumscribed area of change without elevation

Papule - Solid raised lesion < 1 cm

Nodule - Solid raised lesion \geq 1 cm

Plaque - Circumscribed elevated confluence of papules \geq 1 cm

Pustule - Circumscribed area containing pus

Vesicle - Circumscribed fluid-filled, < 1 cm

Bulla - Circumscribed fluid-filled, \geq 1 cm

Petechiae - Small red/brown macule \leq 1 cm that does not blanch

Nikolsky sign: dislodgement of the epidermis by lateral finger pressure

Patient age

0-5 yrs - Meningococemia, Kawasaki dz, viral exanthema

65 yrs - Pemphigus vulgaris, sepsis, meningococemia, TEN, SJS, TSS

Type of Rash

Diffuse erythema - Staph SSS, staph/strep TSS, necrotizing fasciitis

Mucosal lesions - EM major, TEN, SJS, pemphigus vulgaris

Vesicles/bullae - pemphigus, pemphigoid, nec fasc, disseminated gonococcus

Petechiae/purpura - Meningococemia, necrotiz fasciitis, vasculitis, DIC, RMSF, endocarditis

Symptoms

Hypotension - Meningococemia, TSS, RMSF, TEN, SJS

Erythema nodosum

Causes: idiopathic, strep pyogenes, drug reactions (penicillins, sulphur, OCP, iodide), sarcoid, TB, leprosy, IBD, malignancy

Delayed hypersensitivity reaction

Panniculitis (inflammation of fat)

Most common 20-50yr females

Rx: treat underlying, symptomatic

Hand and Foot rashes

Syphilis

Erythema Multiforme

Reiter's Syndrome

Gonococcaemia

Mercury and Arsenic Poisoning

Guttate Psoriasis

RMSF

Hand Foot and Mouth

HSV

HIV seroconversion illness



Cellulitis

Common pathogens; strep pyogenes, Staph aureus, Clostridium perfringens, Haemophilus influenzae

Animal bites: Pasteurella multocida

Human bites: Eikenella corrodens

Erythematous Rash

Nikolsky sign

- positive:
 - febrile: SSSS, TEN
 - afebrile: TEN
- negative:
 - febrile: TSS, Kawasaki, Scarlet fever
 - afebrile: anaphylaxis, scombroid poisoning, alcohol flush

Maculopapular Rash

- central distribution:
 - fever/unwell: viral exanthem, Lyme disease
 - no fever/not unwell: drug reaction, pityriasis
- peripheral distribution:
 - fever/unwell:
 - target lesions: EM/SJS
 - no target lesions: meningococcaemia, RMSF, syphilis, Lyme disease
 - no fever/not unwell:
 - flexor distribution: scabies, eczema
 - extensor distribution: psoriasis

Petechial/Purpuric Rash

- febrile/toxic:
 - palpable: meningococcaemia, disseminated gonococcal disease, endocarditis, RMSF, HSP
 - non-palpable: DIC, TTP, purpura fulminans
- afebrile/non-toxic:
 - palpable: autoimmune vasculitis
 - non-palpable: ITP

Vesiculobullous Rash

Febrile:

- diffuse: varicella, DIC, smallpox, disseminated gonococcal disease, purpura fulminans
- localised: nec fasc, hand foot and mouth

Afebrile:

- diffuse: bullous pemphigoid, pemphigus vulgaris
- localised: contact dermatitis, herpes zoster, dyshidrotic eczema, burns

Pruritic Rash

With skin disease: drugs, scabies, insect bites, eczema, contact dermatitis, urticaria, lichen planus, pityriasis rosea, dermatitis herpetiformis

Without skin disease: jaundice, CRF, lymphoma, myxoedema, thyrotoxicosis, Ca lung/stomach, drugs