# Pennsylvania Academy of Family Physicians Foundation 

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Puzzling Pediatric Dermatology Cases
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## Dermatology Terms - Primary Skin Lesions

- Macule - A macule is an area of color change less than 1.5 cm in diameter. The surface is smooth.
- Patch - A patch refers to a large area of color change, with smooth surface.
- Papule - Papules are small palpable lesions. The usual definition is that they are less than 0.5 cm diameter, although some authors allow up to 1.5 cm . They are usually visibly raised above the skin surface, and may be solitary or multiple.
- Papules may be sessile, pedunculated, filiform, or verrucous

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## Dermatology Terms - Primary Skin Lesions

- Bulla - a large fluid-filled blister. It may be a single compartment or multiloculated.
- Wheal - an edematous papule or plaque caused by swelling in the dermis. Whealing often indicates urticaria.
- Purpura - a bleeding into the skin. This may be a petechiae (small red or brown spots), or an ecchymoses (bruises).
- Telangiectasia - the name given to prominent cutaneous blood vessels.


## Dermatology Terms - Secondary Skin Lesions

- Scaling - an increase in the dead cells on the surface of the skin (stratum corneum). The scale can be psoriatic-type (large white or silver flakes), pityriasis-type (branny powdery scale), or lichenoid (tightly adherent to skin surface)>
- Lichenification - caused by chronic rubbing which results in
palpably thickened skin with increased skin markings and lichenoid
scale. It occurs in chronic eczema, Atopic dermatitis or lichen scale. It
simplex.
- Exfoliation - the stratum corneum peeling off, usually occurring after acute inflammation.
Dermatology Terms - Secondary Skin Lesions
- Fissure - a thin crack within epidermis or epithelium, and is due to
excessive dryness.
- Ulcer - full thickness loss of epidermis or epithelium. It may be
covered with a dark-colored crust called an eschar.
- Erythroderma - a term used to indicate red skin over the entire
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Dermatology Terms - Secondary Skin Lesions

- Crusting - occurs when plasma exudes through an eroded
epidermis. It is rough on the surface and is yellow or brown in color. Bloody crust appears red, purple or black
- Excoriation - a scratch mark. It may be a linear erosion or a picked
scratch. Excoriation may occur in the absence of a primary dermatosis.
- Erosion - caused by loss of the surface of a skin lesion, it is a shallow moist or crusted lesion. $\qquad$

CASE \#1

- Called to the delivery room to see a baby with a rash
- Term baby
- Uncomplicated pregnancy
- ROM $\times 6$ hrs. Vaginal delivery
- Apgars 9 and 10
- Mother with h/o HSV 5 years ago - no recent outbreaks
- Serologies neg

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## Neonatal Pustular Melanosis

- Self limited. Etiology unknown
- 1-2 mm vesiculopustules or ruptured pustules
- Resolve in 24-48 hrs leaving pigmented macules with a collarette of scale
- Forehead, neck, lower back and legs
- Hyperpigmentation fades over 3 weeks to 3 mos
- Gram stain - Neutrophils
- Differential includes E. toxicum, staph folliculitis and Neonatal HSV

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Erythema Toxicum
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- benign, self limited,
- Etiolgy unknown
- 50\% of term infants
- Usually starts within 24-48 hrs of life - can appear as late as day 10
- Central papule or pustule with intense surrounding erythema
- Face, torso and extremities
- Palms and soles are spared
- Case reports of lesions isolated to the diaper area
- Gram stain - Eosinophils. $20 \%$ with peripheral eosinophilia
- Spontaneous resolution in 5-7 days

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Case \# 4

- 2 mo old presents for WCC
- Parents concerned about a diaper rash that won't go away
- Parents have tried Aquaphor, Desitin, Vitamin E and Triple antibiotic $\qquad$
cream
- Not bothersome
- Infant well appearing

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CASE \# 8

- 6 yo girl presents with fever, malaise and a sandpaper rash which is accentuated in the skin folds
-     + ill contacts at school
- Temp -102.5. Child appears moderately ill
- Sandpaper rash with perioral and periorbital pallor
- Skin around mouth is dry and fissuring
- Skin is tender
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CASE \#11

- 8 yo girl presents with several days of fever, headache and decreased appetite.
- She had 24 hrs of an urticarial rash 2 days ago
- 2 days of diffuse, crampy abdominal pain and 24 hrs of rash on legs and swelling of ankles
- Difficulty walking. Hands and feet are swollen

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CASE \#12

- 2-1/2 yo child presents with 2 days of fever, diarrhea and mild URI symptoms - all of which seem to be improving
- Child developed a pinkish-red bumpy rash on cheeks and legs
- Rash is spreading

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Hemangiomas

- When to intervene
- Multiple
- Midline
- Involve vital structures - periorbital, airway, tip of nose
- Ulceration - rapidly growing
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