

Cutaneous Manifestations Of Systemic Diseases

(Cutaneous Manifestations Of Systemic Diseases & Purpura And Vasculitis)

Objectives:

- 1. Not given
- 2.
- 3.

Male slides

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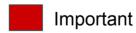
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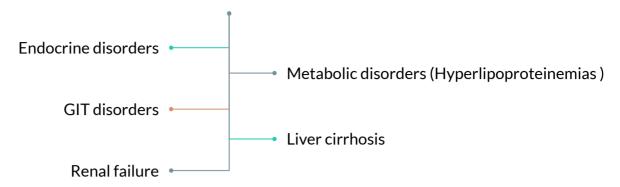
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Cutaneous Manifestations Of Systemic Diseases

Introduction:

Cutaneous manifestation of:



Cutaneous Manifestation of Endocrine Disorders

Cutaneous manifestation of:

Hyperthyroidism Addison's disease Cushing syndrome **Diabetes Mellitus** Hypothyroidism

01 Diabetic Dermopathy or "Shin Spots":

- Most common cutaneous manifestation of diabetes; M >F, males over age 50 years with long standing diabetes
- Possibly related to diabetic neuropathy and vasculopathy
- There are bilateral asymptomatic red-brown atrophic macules on shins
- There is no effective treatment

02 **Necrobiosis Lipoidica (NLD):**

- Patients classically present with single or multiple red-brown papules, which progress to sharply demarcated yellow-brown atrophic, telangiectatic plaques with a violaceous, irregular border.
- Common sites include shins followed by ankles, calves, thighs and feet.
- Ulceration occurs in about 35% of cases. Cutaneous anesthesia, hypohidrosis and partial alopecia can be found

Pathology: Palisading granulomas containing degenerating collagen (necrobiosis).

What cause degeneration of collagen?

- Approximately 60% of NLD patients have diabetes & 20% have glucose intolerance. Conversely, up to 3% of diabetics have NLD.
- Women are more affected than men.
- Pathogenesis is thought to involve the nonenzymatic glycosylation of dermal collagen and elastin

Treatment: Ulcer prevention, No impact of tight glucose control on likelihood of developing NLD.

- Intralesional steroids Aspirin Antiplatelet Pentoxyfylline.
- Preilesional heparin injection







Cutaneous manifestation of:

Diabetes Mellitus

Hypothyroidism

Hyperthyroidism

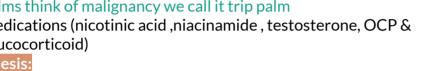
Addison's disease

Cushing syndrome

Acanthosis Nigricans:

Causes:

- obesity & insulin resistance & endocrinopathy (DM, acromegaly ,cushing syndrome, hypothyroidism & hyperandrogenic state as HAIRAN syndrome (hyperandrogen, insulin resistance, acanthosis nigricans)
- Malignancy (esp. GIT, Lung & Breast CA)
- Whenever you see Acanthosis nigrican extensively envolveing the palms think of malignancy we call it trip palm
- Medications (nicotinic acid, niacinamide, testosterone, OCP & Glucocorticoid)



Pathogenesis:

- Genetic sensitivity of the skin to hyperinsulinemia
- Aberrant keratinocyte and fibroblast proliferation stimulated by excess growth factor(e.g., Insulin like growth factor)

Treatment:

- Treat the underlying cause:
- 1. Tight blood glucose control,
- treatment of underlying malignancy, 2.
- 3. weight control
- 4. discontinuation of offending agent
- Dose bleaching agent help? No 5.

Diabetic Bullae or Bullae Diabeticorum:

- Rarest cutaneous complications of diabetes; M > F, long standing diabetics.
- Trauma and microangiopathy may play a role

Clinical: Rapid onset of painless tense blisters on the hands and feet

Pathology:

04

- Intraepidermal and/or subepidermal split without acantholysis.
- DIF is negative



Granuloma Annulare:

- Association between granuloma annulare and diabetes is controversial.
- **Asymmetric**
- Generalized form of GA is the most closely associated with DM.
- It has a chronic and relapsing course

- IL steroid
- Systemic steroid
- **PUVA**



face, external genitalia, medial thighs, dorsal joints, lips and umbilicus can be involved in extensive cases (notice the skin tag)





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Cutaneous manifestation of:

Diabetes Mellitus

Hypothyroidism

Hyperthyroidism

Addison's disease

Cushing syndrome

06

Scleredema Diabeticorum:

- Occurs diabetics with poorly controlled, long-standing disease, and obese men
- Painless, symmetric woody "peau d'orange" induration of the upper back and neck.
- It's Thinking of dermis (glycosamioglycan)
- No specific treatment is available
- Control of hyperglycemia does not improve the scleredema





Figura 1. Nitida infiltração cutânea

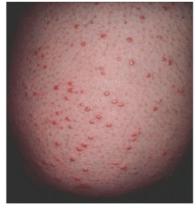
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Cutaneous Infections:

 Diabetic patients are predisposed to develop cutaneous infections due to poor microcirculation (Bacterial, Fungal)

08

Other manifestation of DM:



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Eruptive Xanthomas Multiple legion in short period distributited all over the body (orange,red)



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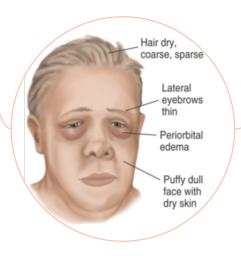
Diabetic neuropathy (peripheral), Neuropathic ulcers

Cutaneous manifestation of:

Diabetes Mellitus Hypothyroidism Hyperthyroidism Addison's disease Cushing syndrome

Hair

- Dry, brittle, coarse hair
- Diffuse alopecia,
 Telogen effluvium
- Loss of lateral third of eyebrow (madarosis)



Skin

- Cool, dry, pale
- Xerosis
- Hypohidrosis
- Yellowish hue secondary to carotenemia
- Generalized myxedema: swollen waxy appearance
- Swollen lips, broad nose, macroglossia
- Purpura secondary to impaired wound healing
- Pruritus

Cutaneous manifestation of:

Diabetes Mellitus Hypothyroidism Hyperthyroidism Addison's disease Cushing syndrome

Non-specific Manifestations of Hyperthyroidism:

Skin

- Warm, and moist
- Palmar erythema
- Flushing of head/neck, trunk

Hair

- pruritus



Nails

- Faster rate of growth
- Onycholysis
- Plummer nails: concave deformity with distal onycholysis

Pigmentation

- Soft/fine/straight
- Diffuse reversible alopecia (Telogen effluvium)
- Focal or generalized hyperpigmentation
- Vitiligo

Thyroid dermopathy (Pretibial Myxedema):



- Bilateral, non-pitting yellowish- brown to red waxy papules, nodules and plaques on the shins
- Occur in Graves disease triad (pretibial myxedema, goiter, exophtalmus.

The clinical findings are due to an increase in (mucin) hyaluronic acid in dermis. Treatment regimens include high potency topical steroids intralesional steroid.



Cutaneous manifestation of:

Diabetes Mellitus

Hypothyroidism

Hyperthyroidism Addison's disease

Cushing syndrome

Hypocorticism (Addison disease):

- Generalized hyperpigmentation that is more prominent in light exposed areas, scars, genitalia, palmar and finger creases, and under the nails. The pigmentation characteristically affects the mucous membranes areola.
- Loss of pubic and axillary hair in females.
- Improvement of acne
- Low steroid >increase ACTH >high MSH>hyperpigmintation



Cutaneous manifestation of:

Diabetes Mellitus Hypothyroidism Hyperthyroidism Addison's disease **Cushing syndrome**

Cushing syndrome:

- endogenous or exogenous
- Deposition of fat over the clavicles and back of the neck" Buffalo hump"
- Rounded erythematosus face with telangiectasia "Moon face"
- Truncal obesity with slender wasting limbs.
- Striae distensae -Hirsutism, acneform rash, androgenetic alopecia.
- Easy bruising of the skin on simple trauma.







Manifestations of endocrine diseases:

Table 53.6 Dermatologic manifestations of hypothyroidism.

DERMATOLOGIC MANIFESTATIONS OF HYPOTHYROIDISM		
Skin changes	Dry, rough, or coarse; cold and pale, boggy and edematous (myxedema) Yellow discoloration as a result of carotenemia Easy bruising (capillary fragility)	
Cutaneous diseases	Ichthyosis and palmoplantar keratoderma Eruptive and/or tuberous xanthomas	
Hair changes	Dull, coarse, and brittle Slow growth (increase in telogen hair phase) Alopecia of the lateral third of the eyebrows	
Nail changes	Thin, brittle, striated Slow growth Onycholysis (rare)	

DERMATOLOG	(SYNDROME)
Altered subcutaneous fat distribution*	
Rounded facies Fullness of the cheeks Dorsal cervical verteb Pelvic girdle fat depo Reduced fat in the an	ral fat deposits (buffalo hump) (Fig. 53.20) sition
kin atrophy	
Multiple striae on abo Cutaneous fragility ar	epidermal and dermal components affected dominal flanks, arms, and thighs (Fig. 53.21) and prolonged wound healing rauma due to reduced connective tissue support
utaneous infections	
Pityriasis (tinea) version Dermatophytosis and Candidiasis	
ppendageal effects	
Corticosteroid-related Hirsutism	acne

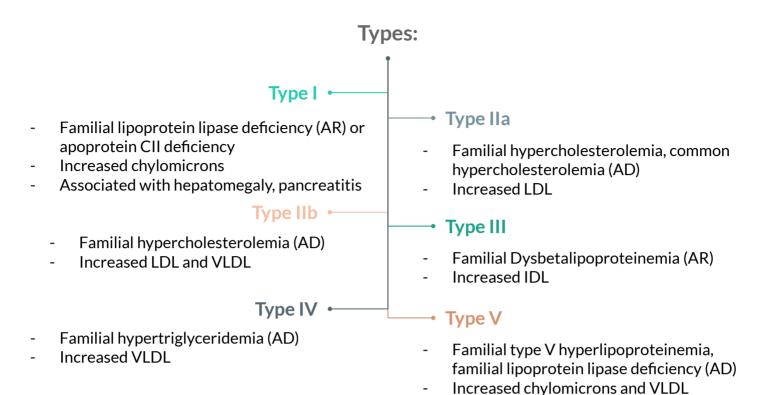
Table 53.5 Dermatologic manifestations of hyperthyroidism

Cutaneous changes	Fine, velvety, or smooth skin Warm, moist skin due to increased sweating Hyperpigmentation – localized or generalized
Eutaneous diseases	Vitiligo Urticaria, dermatographism Pretibial myxedema and thyroid acropachy
air changes	Fine, thin Mild, diffuse alopecia
lair disease	Alopecia areata
Nail changes	Onycholysis Koilonychia Clubbing from thyroid acropachy

Table 53.8 Selected dermatologic manifestations of Addison's disease.

wish, melanocyte-sumulating normone.		
SELECTED DERMATOLOGIC MANIFESTATIONS OF ADDISON'S DISEASE		
Hyperpigmentation (MSH-like effect due to secretion of ACTH) Diffuse with sun-exposed accentuation Sites of trauma Axillary, perineum, and nipples Palmar creases Nevi Mucous membranes Hair Nails Loss of ambisexual hair in postpubertal women Fibrosis and calcification of cartilage including the ear (rare) Vitiligo Chronic mucocutaneous candidiasis		

Hyperlipoproteinemia



01 Tuberous Xanthoma

- Flat or elevated, rounded, grouped, yellowish- orange nodules over joints (particularly elbows and knees)
- Types II, III, and IV
- Biliary cirrhosis



Tuberous xanthomas of the knee.
Note the yellowish hue

02 Tendinous Xanthoma

Eruptive Xanthoma

- Papules or nodules over tendons (extensor tendons on dorsum of hands, feet, and achilles)
- Types II, III

03



Tendinous xanthomas of the fingers in a patient with homozygous familial hypercholesterolemia

Linear swelling of the Achilles area representing a tendinous xanthoma in a patient with dysbetalipoproteinemia.

Small yellow/orange/red papules appearing in crops over entire body → buttocks, flexor surfaces, arms, thighs,

• Associated with markedly elevated or abrupt increase in triglycerides (elevated chylomicrons)

knees, oral mucosa and may koebnerize

- Types I,III, IV, and V
- Diabetes, obesity, pancreatitis, chronic renal failure, hypothyroidism, estrogen therapy, corticosteroids, isotretinoin increase TG, acitretin



Eruptive xanthomas. Note the yellowish hue

Hyperlipoproteinemia

04 Planar Xanthoma

- Flat macules or slightly elevated plaques, yellow/ tan color
- Associated with biliary cirrhosis, biliary atresia, myeloma, monoclonal gammopathy, lymphoma.
- Characteristically around eyelids, neck, trunk, shoulders, or axillae
- Types II,III

05 Palmar Xanthoma

- Nodules and irregular plaques on palms and flexural surfaces of fingers
- Type III

06 Xanthelasma

- Most common type of xanthoma
- Eyelids
- Usually present without any other disease dont be surprised if you get normal lipid profile, but can occur in types II and III
- Common among women with hepatic or biliary disorders, also seen in myxedema, diabetes
- Best treated with surgical excision



Plane xanthoma in a patient with a monoclonal IgG gammopathy



Plane xanthomas of the palmar creases in a patient with dysbetalipoprotenemia (arrows)



Xanthelasma palpebrarum with typical yellowish hue.

Cutaneous Manifestation of Gastrointestinal Disorders

Manifestations of Inflammatory Bowel Disease (IBD)

Cutaneous findings	Association	
Commonly involves Perineum associated with edema and inflammation	CD>UC	Fissures and Fistulas
Edema, cobblestone, ulceration, nodules	CD	Oral Crohn's
Nodules, plaques, ulcerations; commonly on extremities or intertrigenous regions mimics Erythema Nodosum	CD	Metastatic Crohn's
Tender red nodules on anterior lower legs; precedes or occurs simultaneous with IBD flare	UC>CD	Erythema nodosum
Papules, pustules, hemorrhagic blisters → enlarge, ulcerate with dusky undermined edges; exacerbated by trauma; frequently on legs	UC>CD	Pyoderma Gangrenosum (PG)
Vegetating plaques, vesiculopustules of intertrigenous areas; heal with hyperpigmentation; when process involves mucosa =Pyostomatits vegetans	UC	Pyoderma Vegetans
Identical to common aphthous ulcers; develop with IBD flares	UC>CD	Chronic Apthous Ulcers

Other less common manifestation: Epidermolysis bullosa acquisita, erythema multiforme, urticaria, clubbing, psoriasis, vitiligo. Note: CD = Crohn's disease, UC = Ulcerative Colitis

Erythema Nodosum:

- Erythematous, tender nodules on anterior shins; also seen on thighs, lateral aspects of lower legs, arms, and face, bilateral, symmetrical.
- Often accompanied by fever, chills, malaise, and leukocytosis
- 70% have associated arthropathy
- Occurs at any age, but most prevalent between 20 and 30 years of age
- Nodule in subcutaneous fat

Causes: MNEMONIC SHOUT BCG

S=Sarcoid, Sulfa drugs, Strept commonest cause. H=Histoplasmosis. O=Oral contraceptives, pregnancy. U=Ulcerative colitis. T=TB. B=Bechet's. C=Crohns. G=GI (Yersinia, salmonella)

Work up:

- Hx (exclude drugs, hx of infection & GI symptoms)
- CBC with diff, ESR
- Throat swab, ASO titre
- CXR -PPD
- Stool for occult blood

Treatment:

- Spontaneous resolution usually occurs within three to six weeks without scarring
- NSAIDs such as indomethacin or naproxen
- Systemic steroids effective in
- severe cases and can be dangerous if infection is etiology
- Potassium iodide if chronic and recurrent



Cutaneous Manifestation of Gastrointestinal Disorders

Pyoderma gangrenosum:

- 1.5-5% of patients with IBD develop PG
- Associated with leukemia, myeloma, monoclonaL gammopathy (IgA), polycythemia, chronic active hepatitis, HCV, HIV, SLE & pregnancy
- Associated with PAPA syndrome → pyogenic arthritis, pyoderma gangrenosum, severe cystic acne
- May be associated with arthritis

Types:

- Ulcerative
- Pustular end up with ulcer
- Bullous end up with ulcer
- Vegetative

Histology: Septal panniculitis without vasculitis

Treatment:

- Treat underlying cause
- Potent topical steroids or IL steroids
- Topical tacrolimus
- Systemic steroids
- Cyclosporine, Sulfapyridine, sulfasalzine, and dapsone
- Infliximab
- Other agents: thalidomide, SSKI, azathioprine, cyclophosphamide, chlorambucil



Distinct rolled edges and show satellite violaceous papules that break down and fuse with central ulcer



Peristomal Pyoderma Gangrenosum

Cutaneous Manifestation of Liver Diseases

- Pruritus: generalized itching especially in the presence of biliary obstruction or jaundice.
- Jaundice. -Spider naevi: small telangeictatic blood vessels especially on the face and upper chest.
- Palmar erythema.
- Thinning of the hair and sometime loss of sexual hair in the axillae and pubic areas. Because of sex hormon binding protien
- Porphyria cutanea tarda.
- Xanthoma





Diffuse bronzing of the skin in Hemochromatosis

Cutaneous Manifestation of Renal Diseases

End Stage Renal Disease (ESRD) and Dialysis:

- 01 Pruritus:
 - The most common cutaneous manifestation of ESRD
- Half and half (Lindsay's) nails:
 - Result from edema of the nail bed and capillary network and give the proximal half of the nail an opaque white appearance
- 03 Metastatic Calcification:
 - Deposition of calcium within tissue secondary to abnormal calcium and or phosphate metabolism hyperparathyrodism
 - It can manifest in the skin as:
 - 1. benign nodular calcifications (calcinosis cutis)
 - 2. Or as a more serious condition (calciphylaxis) CA in small blood vessele with an associated mortality rate between 60-80%
- 04 Calciphylaxis:
 - Calciphylaxis presents as painful purpuric plaques and retiform pupura with progression to ulceration and necrosis. Distribution of the lesions may predict prognosis; patients with acral lesions have a better outcome than those with proximally located lesions

Histological finding: medial calcification/intimal hyperplasia of small arteries and arterioles

Management: includes

- total or subtotal parathyroidectomy (if PTH levels are elevated)
- wound care
- avoidance of precipitating factors.
- Mortality is related to Staphylococcal superinfection of ulcers with resultant sepsis
- Change the diet
- O5 Porphyria Cutanea Tarda (PCT):
 - Pathogenesis: may be related to the suboptimal clearance of uroporhyrins (product of heme synthesis pathway) from the circulation which is a photosensitizer.
 - Patients may present with:
 - 1. photodistributed bullae. 2. skin fragility
 - 3. hyperpigmentation. 4. Hypertrichosis

Thy have enzymatic deficiency either acquired (renal and liver disease) inherited (gentaic deficiency)

05 Pseudo-PCT:

- Similar clinical and histological findings of PCT, in setting of normal porphyrin profile
- Usually due to certain medications such as furosemide, naproxen, tetracycline, nalidixic acid, or amiodarone











Cutaneous Manifestation of Renal Diseases

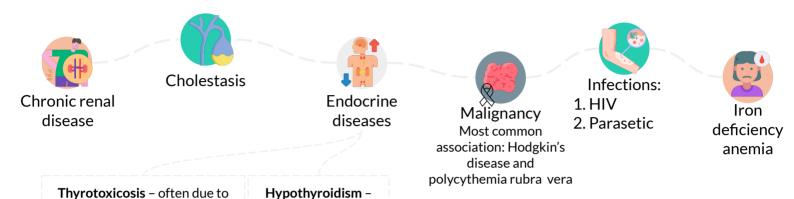
Generalized Pruritus

- Generalised pruritus in the absence of a rash requires investigation and exclusion of an underlying systemic disorder
- It is important to distinguish these from an underlying primary skin disease such as scabies or eczema

pruritus secondary

to the dry skin

Conditions that Cause Pruritus:



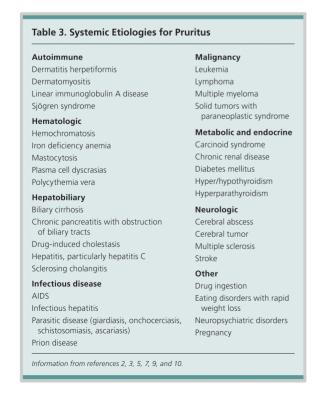
Workup of Generalized Pruritus:

- History and Physical exam
- CBC, diff, Blood film

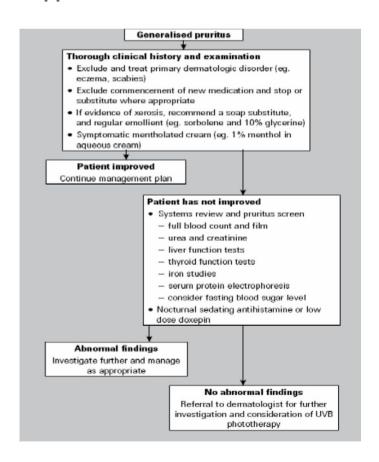
increased skin blood flow which

raises skin temperature

- Stool for O&P, occult blood
- CXR
- Thyroid, renal, and liver function tests



Approach:

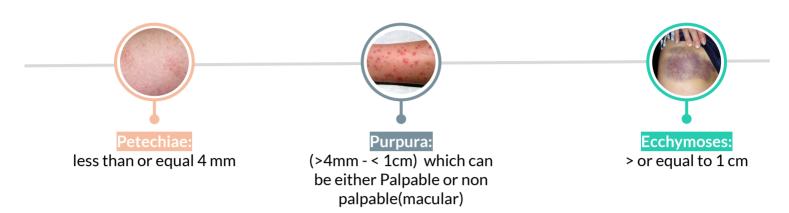


Purpura and vasculitis



Definition:

Visible hemorrhage into the skin or mucous membrane subdivided as a follow:



Causes:

Platelet Disorders	Coagulation Factor Deficiency	Vascular Factors (Blood vessel wall pathology)
Thrombocytopenia	Congenital: - Factor VIII Deficiency - Factor IX Deficiency - Von Willebrands disease	Congenital: - Hereditary Hemorrhagic Telangectasia - Ehlers-Danlos Syndrome (Type IV)
Platelet Dysfunction	Acquired: - Disseminated Intravascular Coagulopathy - Liver disease - Uremia - Vitamin K deficiency	Acquired: - Inflammation(Vasculitis) - Trauma - Vitamin c deficiency (scurvy)

Vasculitis:

• A clinicopathologic process characterized by inflammatory destruction of blood vessels that results in occlusion or destruction of the vessel and ischemia of the tissues supplied by that vessel.

Classification:

Large-vessel vasculitis

Anatomy: Aorta and the great vessels (subclavian, carotid) Pathology: Claudication, blindness, stroke

Medium-vessel vasculitis

Anatomy: Arteries with muscular wall EX.renal, coronary artery Pathology: Mononeuritis multiplex (wrist/foot drop), mesenteric ischemia, cutaneous ulcers

They present to dermatologist if it comes with small vessel

Small-vessel vasculitis

Anatomy: Capillaries, arterioles, venules

Pathology: Palpable purpura, glomerulonephritis, pulmonary

hemorrhage

CHAPEL HILL CONSENSUS CLASSIFICATION

Large-vessel vasculitis

- Giant cell arteritis
- Takayasu's arteritis

Medium-vessel vasculitis

- Classic polyarteritis nodosa
- Kawasaki disease

Small-vessel vasculitis

- Wegener's granulomatosis
- Churg–Strauss syndrome
- Microscopic polyangiitis (polyarteritis)
- Henoch–Schönlein purpura
- Essential cryoglobulinemiaCutaneous leukocytoclastic vasculitis

Cutaneous small vessel vasculitis

Infections

Mycobacterial

Connective

Drugs

• Is the most common type of vasculitis and it primarily affect post-capillary venules

Pathogenesis:

- Caused by circulating immune complexes
- Tybe 3 immune Response
- These lodge in vessel walls and activate complement

Features:

- Palpable purpura is the hallmark
- Pinpoint to several centimeters differentiated from Palpable vesicles in the picture
- Early on lesion may not be palpable, Papulonodular, bullous, pustular or ulcerated forms may develop
- Predominate on the ankles and lower legs i.e dependent areas
- HSV seen in pediatric

Manifestations of the disease:

- Mild pruritis, fever, malaise, arthralgia and/or myalgia may occur
- Typically resolve in 3 to 4 weeks
- Residual postinflammatory hyperpigmentation may be seen
- Self-limiting

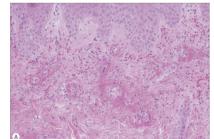
Histology:

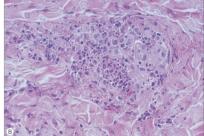
- May recur or become chronic
- Hemorrhagic vesicles or bullae may develop
- May be localized to the skin or may manifest in other organs.
- The internal organs affected most commonly include the joints, GIT, and the kidneys.
- Renal involvement present as glomerulonephritis
- The prognosis is good in the absence of internal involvement



Agiocentric segmental inflammation, endothelial cell swelling, fibrinoid necrosis of blood vessel walls(destruction of vessel wall and lumen) and a cellular infiltrate composed of neutrophil with RBC

extravasation.fibrin deposition in vessel wall





Work up

Detailed history and physical examination

History should focus on possible infectious disorders, prior associated diseases, drugs ingested, and a thorough review of systems

CBC, strep throat culture or ASO titer, Hep B & C serologies and ANA are a reasonable initial screen, renal profile

Urinalysis for RBC, proteins & cast

ormalysis for RBC, proteins & cast

Skin biopsy

Treatment

Treatment of cause.

Symptomatic treatment (if skin is only involved): rest, NSAIDS, Antihistamine

severe visceral involvement may require high doses of corticosteroids with or without an immunosuppressive agent

Immunosuppressive agents for rapidly progressive course and severe systemic involvement



· Streptococcal, meningococcal, urinary tract

· Systemic sclerosis, Sjogren syndrome

 Medium vessel vasculitides (Wegener granulomatosis, polyarteritis nodosa, Churg-Strauss syndrome)

Including antibiotics, antihypertensives

infections
• Hepatitis B and C, HIV

Tuberculosis

Dermatomyositis

myeloproliferative
lymphoma

Henoch-Schonlein purpura

monoclonal gammopathy
multiple myeloma

SLE and related conditions



Henoch-Schönlein purpura (HSP)

- Primarily occurs in male children
- Peak age 4-8 years
- Adults may be affected
- A viral infection or streptococcal pharyngitis are the usual triggering event
- In about 40 % of the cases the cutaneous manifestations are preceded by mild fever, headache, joint symptoms, and abdominal pain for up to 2 weeks

Manifestations of the disease:

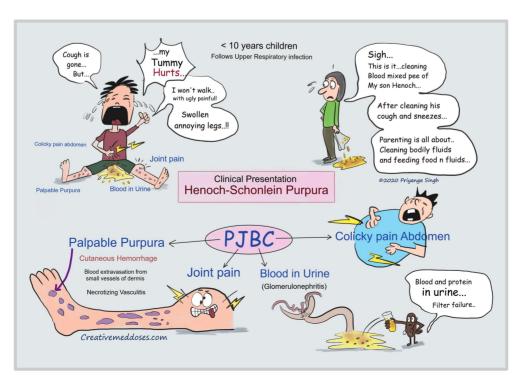
- Characterized by intermittent purpura, arthralgia, abdominal pain, and renal disease
- Typically purpura appears on the extensor surfaces of the extremities
- Become hemorrhagic within a day and fades in 5 days
- New crops appear over a few weeks
- May be associated with: pulmonary hemorrhage, Abdominal pain and GI bleeding
- GI radiographs may show "cobblestone" appearance
- Renal manifestations may occur in 25% or more but only 5% end up with ESRD

Diagnosis:

- IgA, C3 and fibrin depositions around the blood vessel have been demonstrated in biopsies of both involved and uninvolved skin by immunofluorescence techniques
- When You take biopsy and give one sample for histo the other for IF in IF you found IGA and C3 only in the first 48 H

Prognosis:

 The long-term prognosis in children with gross hematuria is very good; however, progressive glomerular disease and renal failure may develop in a small percentage







Mucocutaneous lymph node syndrome (Kawasaki's disease)

- Predominantly seen in children less than 5 years of age.
- Occurs most often in Japan
- It is coronary disease mainly

Diagnosis:



A patient should have a fever above 38.3 C for 5 days plus 4 of the 5 following criteria;

- 1. Edema of hands and feet
- 2. Polymorphous exanthema
- 3. Nonpurulent bilateral conjunctival injection
- 4. Changes in the lips and oral cavity
- 5. Acute, nonpurulent cervical adenopathy





Complications:

- Coronary arterial disease occurs and thrombocythemia may occur
- In combination, vessel occlusion may occur and the subsequent MI, which occur as the child is recovering from the acute illness

Treatment:

- IVIG is the cornerstone of treatment
- Antiplatelet therapy with aspirin is recommended
- (high dose)



Questions

1- Which of the following skin rashes is associated with diabetes mellitus?				
A)	Acanthosis nigricans	C) Pretibial myxedema		
B)	Palpable purpura	D) Striae		
2- W	hich of the following is not an indic	cation for HIV testing?		
A)	Any STD	C) Seborrheic Dermatitis		
B)	Oral hairy leukoplakia	D) lichen planus		
3- What is the best treatment for Cutaneous small vessel vasculitis without systemic involvement?				
A)	Methotrexate	C) Steroid		
B)	Bed rest			
4- What is pathognomonic sign for small vessel vasculitis?				
A)	Vesicles	C) Palpable purpura		
B)	Bulla	D) Scar		