

Dermspeak: Unlocking the Lingo of Dermatologic Diagnoses

For Skin, Bones, Hearts, Private Parts Conference 2024

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- Thank you

Learning Objectives

- Review the unique language used in dermatology to describe lesions and rashes including primary morphology, secondary changes, and distribution
- Understand when selected diagnostic tests and important historical features can assist in making a dermatologic diagnosis
- Describe the pathology behind several common dermatologic conditions
- Have fun reviewing basic dermatologic terminology and conditions using an interactive game-based modality

Poll Everywhere



What word do you use most often in your medical documentation when describing a lesion or rash?

Nobody has responded yet.

Hang tight! Responses are coming in.

Dermspeak: Unlocking the Lingo of Dermatologic Diagnoses

Win up to 1,000 points per answer

Jeopardy Categories

Jeopardy Board

Don't Forget the Nails

A Little Pathophysiology

I'd Like to Buy a Test

Distinctive Distributions

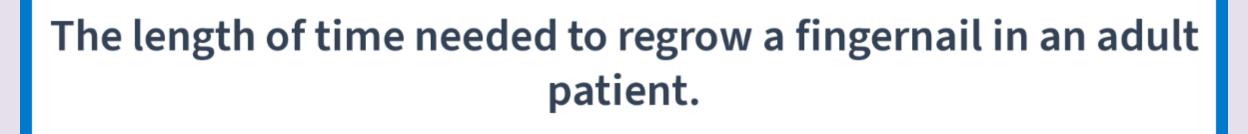
Primary Morphology

Historical Significance

Main Jeopardy Board

Don't Forget the Nails	I'd Like to Buy a Test	Primary Morphology	A Little Pathology	Distinctive Distribution	Historical Significance
100	100	100	100	100	100
200	200	200	200	200	200
300	300	300	300	300	300
400	400	400	400	400	400
500	500	500	500	500	500

Don't Forget the Nails: 100



The length of time needed to regrow a fingernail in an adult patient.

1 month 2 months 3 months 6 months 12 months

The length of time needed to regrow a fingernail in an adult patient.

1 month	
	0%
2 months	
	0%
3 months	
	0%
6 months	
	0%
12 months	
	0%

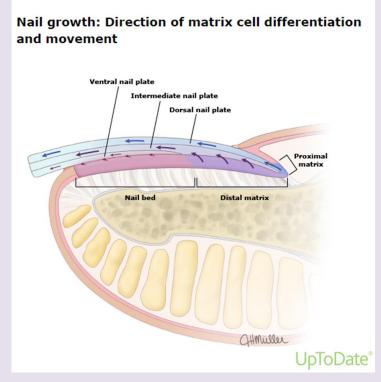
Leaderboard

Nobody has responded yet.

Basic Nail Health

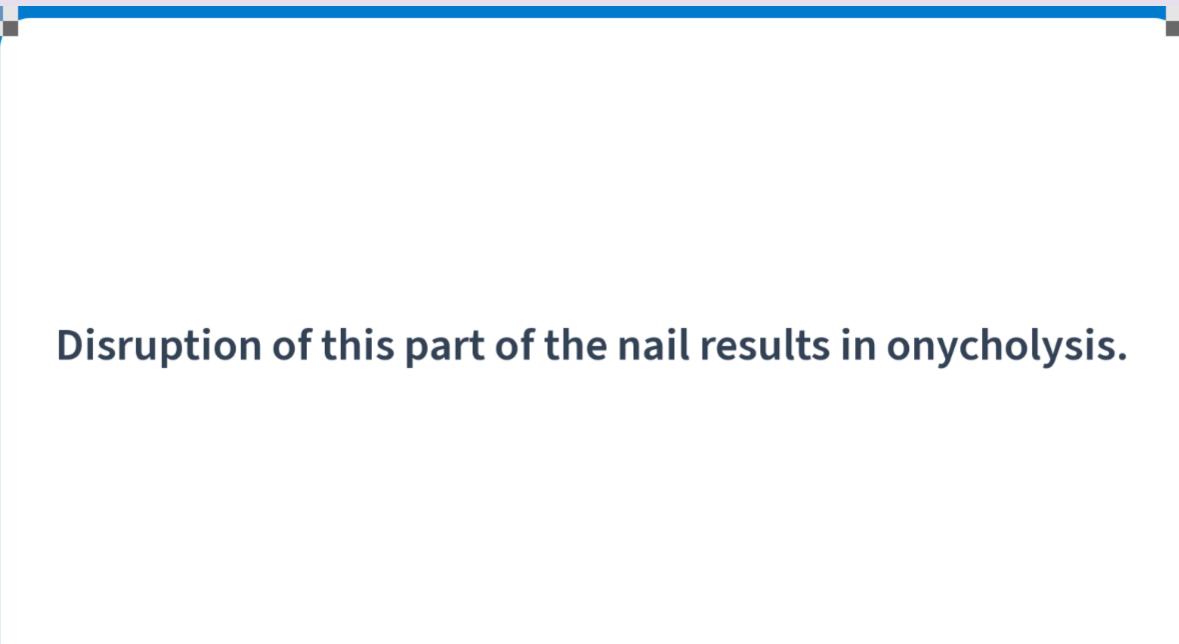
- Nail matrix is the germinative epithelium from which the nail matrix keratinocytes differentiate to form the nail plate
- Fingernail regrowth takes 6 months
- Toenail regrowth takes 12-18 months
- Nail growth slows with aging and in the presence of vascular disease and can be interrupted by systemic illness, trauma, or medications
- Skin diseases with nail involvement psoriasis, lichen planus, alopecia areata, Darier disease, sarcoidosis
- Good nail habits
 - Keep nails trimmed short
 - Avoid trauma
 - Avoid contact irritants and wet work
 - Use nail cosmetics sparingly if at all
 - Protect hands from cold or windy weather





BOARD

Don't Forget the Nails: 200



Disruption of this part of the nail results in onycholysis.

Nail plate

Lunula

Hyponychium

Paronychium

Disruption of this part of the nail results in onycholysis.

Nail plate	
	0%
Lunula	
	0%
Hyponychium	
nyponyemam	0%
Paronychium	
	0%

Leaderboard

Nobody has responded yet.

Onycholysis

- Distal separation of the nail plate from the bed
- Onycholytic portion looks white due to air beneath the plate
- Associated with trauma, wet work, psoriasis, lichen planus, medications, onychomycosis, contact dermatitis
- Predisposes to secondary subungual infections



BOARD

Don't Forget the Nails: 300

Transverse grooves the result of temporary arrest of proximal nail matrix proliferation that move distally with nail growth.

Transverse grooves the result of temporary arrest of proximal nail matrix proliferation that move distally with nail growth.

Pitting

Physiologic furrows and ridges

Mees' lines

Splinter hemorrhages

Beau lines

Transverse grooves the result of temporary arrest of proximal nail matrix proliferation that move distally with nail growth.

Pitting	0%
	0%
Physiologic furrows and ridges	00/
	0%
Mees' lines	
	0%
Splinter hemorrhages	
	0%
Beau lines	
	0%

Leaderboard

Nobody has responded yet.

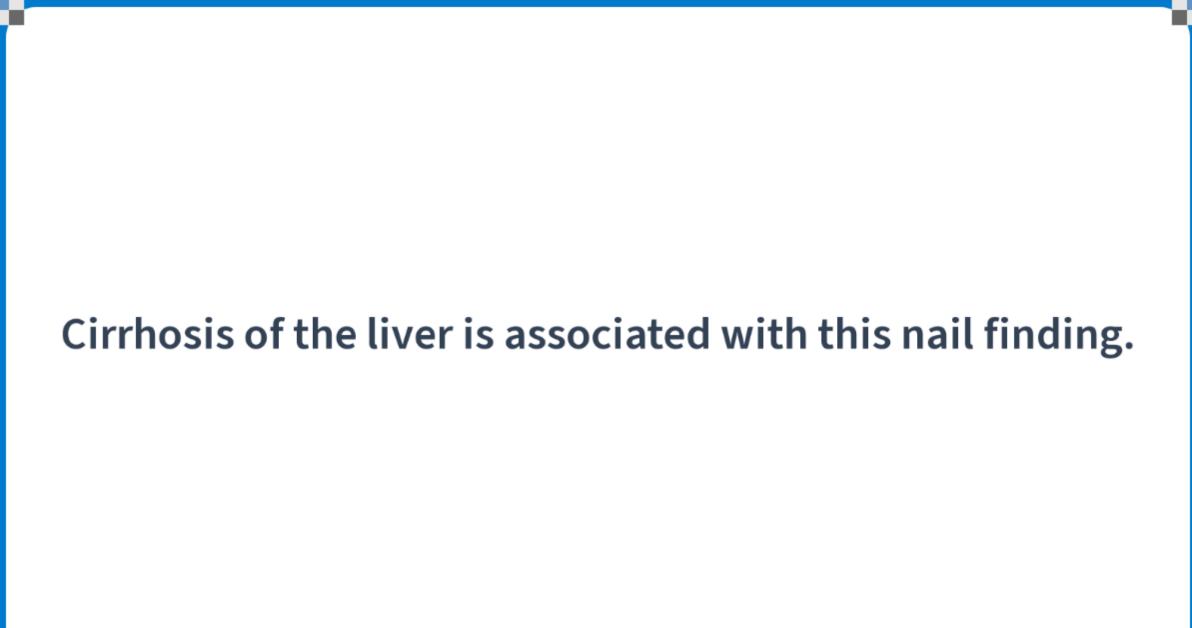
Beau Lines

- Result from temporary arrest of the proximal nail matrix proliferation an appear as transverse grooves that move distally with nail growth
- Can measure the time of insult with distance from proximal fold - @ one month for every mm from the fold
- Causes include trauma, local cutaneous disease such as dermatitis or paronychia, medications, viral infections, pemphigus, Kawasaki disease



BOARD

Don't Forget the Nails: 400



Cirrhosis of the liver is associated with this nail finding.

Red lunula

Splinter hemorrhages

Longitudinal white lines

Terry's nails

Cirrhosis of the liver is associated with this nail finding.

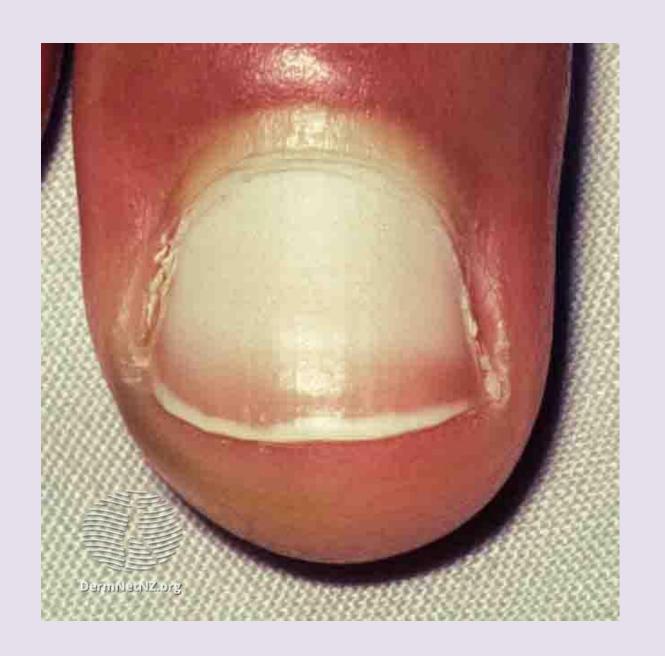
Red lunula	
	0%
Splinter hemorrhages	
	0%
Longitudinal white lines	
	0%
Terry's nails	
	0%

Leaderboard

Nobody has responded yet.

Terry Nails

- Leukonychia that involves more than the proximal 2/3 of the nail plate
- Distal 1/3 appears red
- Nail sign of systemic disease
 - Liver cirrhosis
 - Autoimmune hepatitis
 - T2DM
 - -RA
 - Reactive arthritis
 - CHF



BOARD

Don't Forget the Nails: 500

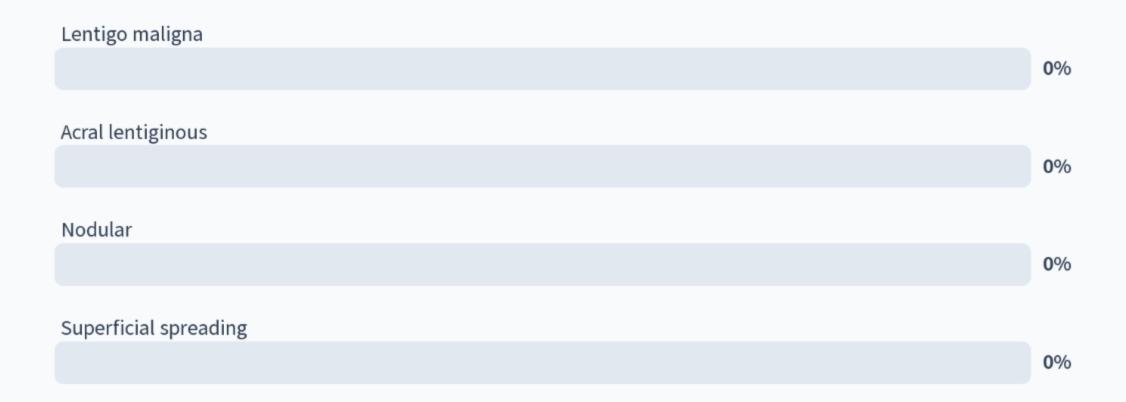


This variant of melanoma presents in the nail beds often in higher Fitzpatrick skin types

Lentigo maligna Acral lentiginous Nodular

Superficial spreading

This variant of melanoma presents in the nail beds often in higher Fitzpatrick skin types



Leaderboard

Nobody has responded yet.



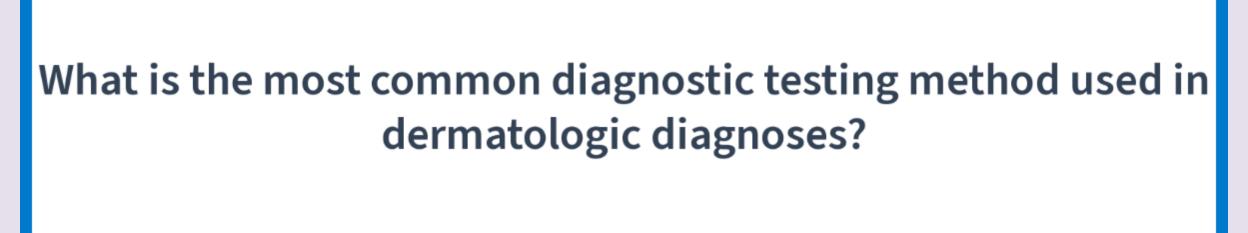
Acral Lentiginous Melanoma

- Rare
 - 1-3% white
 - 15-30% occur in darker skin
- Brown-black longitudinal stripe in nail plate
- More common in higher Fitzpatrick types

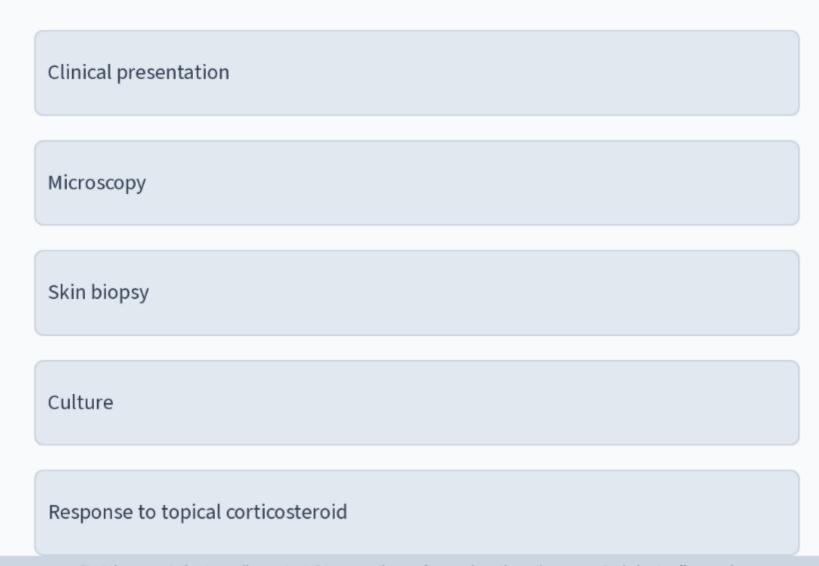


BOARD

I'd Like to Buy a Test: 100



What is the most common diagnostic testing method used in dermatologic diagnoses?



What is the most common diagnostic testing method used in dermatologic diagnoses?

Clinical presentation	
	0%
Microscopy	
	0%
Skin biopsy	
	0%
Culture	
	0%
Response to topical corticosteroid	
	0%

Leaderboard

Nobody has responded yet.

BOARD

I'd Like to Buy a Test: 200

Diagnostic test used to evaluate the erythematous and violacious lesions of petechiae and purpura.

Diagnostic test used to evaluate the erythematous and violacious lesions of petechiae and purpura.

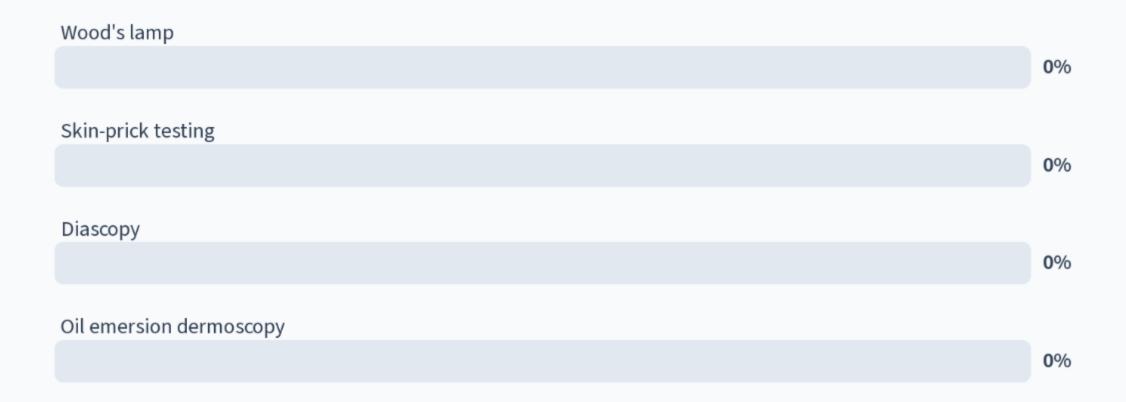
Wood's lamp

Skin-prick testing

Diascopy

Oil emersion dermoscopy

Diagnostic test used to evaluate the erythematous and violacious lesions of petechiae and purpura.



Leaderboard

Nobody has responded yet.

Diascopy



BOARD

I'd Like to Buy a Test: 300

The presence of multi-nucleated giant cells on this diagnostic test is helpful in the diagnosis of cutaneous HSV.

The presence of multi-nucleated giant cells on this diagnostic test is helpful in the diagnosis of cutaneous HSV.

Tzanck smear

Gram stain

Lugol's iodine wash

Acetowhitening

The presence of multi-nucleated giant cells on this diagnostic test is helpful in the diagnosis of cutaneous HSV.

Tzanck smear

Gram stain

Lugol's iodine wash

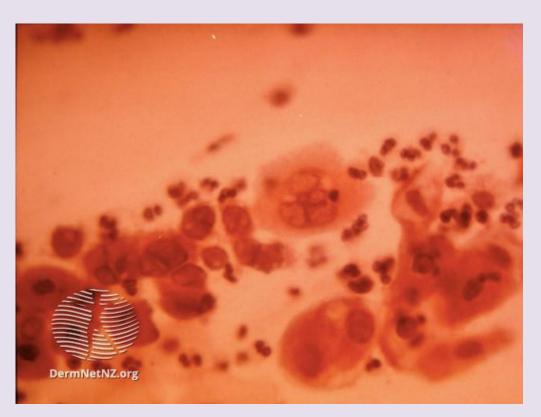
Acetowhitening

Leaderboard

Nobody has responded yet.

Tzanck Smear

- Most commonly used for diagnosis of herpes simplex and varicella-zoster
- Findings in HSV include multinucleated giant cells, acantholytic cells, keratinocyte ballooning, and nuclear molding
- Sensitivity 40-80%
- PCR is the most sensitive method to confirm HSV infection
- Also use Tzanck to see molluscum bodies in MC when clinical presentation is atypical or in immunocompromised patients to differentiate from deeper fungal infections



BOARD

I'd Like to Buy a Test: 400

The dimple sign is positive in which of the following dermatologic conditions?

The dimple sign is positive in which of the following dermatologic conditions?

Molluscum contagiosum

Verruca plantaris

Actinic keratosis

Dermatofibroma

The dimple sign is positive in which of the following dermatologic conditions?

Molluscum contagiosum	
	0%
Verruca plantaris	
	0%
Actinic keratosis	
	0%
Dermatofibroma	
	0%

Leaderboard

Nobody has responded yet.

Dermatofibroma-Dimple Sign





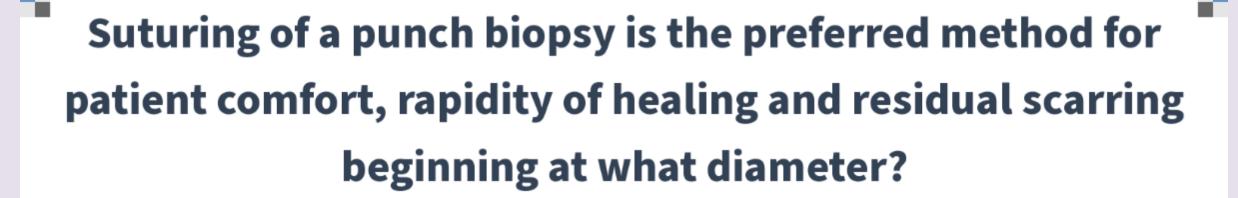
BOARD

I'd Like to Buy a Test: 500

Suturing of a punch biopsy is the preferred method for patient comfort, rapidity of healing and residual scarring beginning at what diameter?

Suturing of a punch biopsy is the preferred method for patient comfort, rapidity of healing and residual scarring beginning at what diameter?

2 mm 4 mm 5 mm 8 mm



2 mm

4 mm

5 mm

8 mm

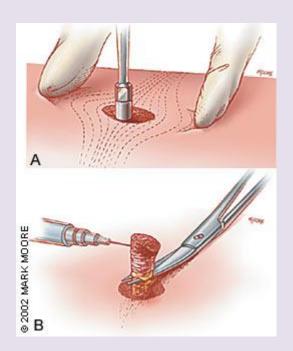
Leaderboard

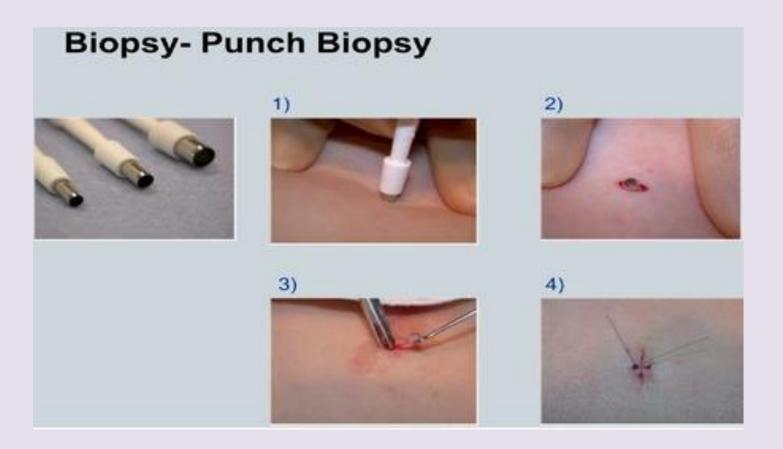
Nobody has responded yet.











BOARD

Primary Morphology: 100



Flat hyperpigmentation less than 1 cm in diameter



Flat hyperpigmentation less than 1 cm in diameter

macule	
	0 %
n a bala	
patch	0%
	0 70
plaque	
	0 %
flare	00/-
	0%
plaque	
	0%

Leaderboard

Nobody has responded yet.

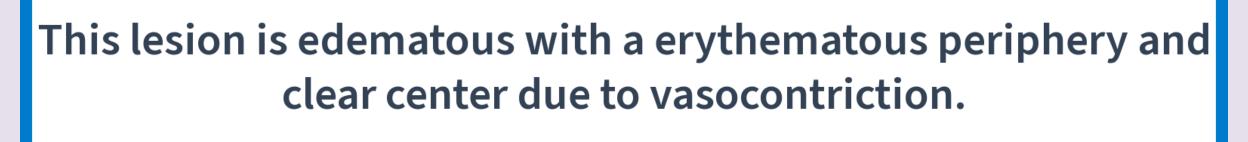
Macules





BOARD

Primary Morphology: 200



This lesion is edematous with a erythematous periphery and clear center due to vasocontriction.

Wheal Plateau Excoriation Plaque

This lesion is edematous with a erythematous periphery and clear center due to vasocontriction.

Wheal	
	0%
Plateau	
	0%
Everyintian	
Excoriation	0%
Plaque	
	0%

Leaderboard

Nobody has responded yet.



BOARD

Primary Morphology: 300

Multiple lesions blending together

Multiple lesions blending together

Excoriated Confluent Serpiginous Annular

Multiple lesions blending together

Excoriated	
	0%
Confluent	
	0%
Serpiginous	
	0%
Annular	
	0%

Leaderboard

Nobody has responded yet.



BOARD

Primary Morphology: 400

Trauma to the skin that induces skin lesions

Trauma to the skin that induces skin lesions

Nikolsky's sign

Lichenification

Koebnerization

Dennie-Morgan Lines

Trauma to the skin that induces skin lesions

Nikolsky's sign	
	0%
Lichenification	
	0%
Koebnerization	
	0%
Dennie-Morgan Lines	
	0%

Leaderboard

Nobody has responded yet.



BOARD

Primary Morphology: 500

Vasculitis often produces these lesions

Vasculitis often produces these lesions

Collarette scales

Flaccid bullae Wheals and flares Palpable purpura Erythema migrans

Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

Vasculitis often produces these lesions

Flaccid bullae	
	0%
Wheals and flares	
	0%
Palpable purpura	
	0%
Erythema migrans	
	0%
Collarette scales	
	0%

Leaderboard

Nobody has responded yet.



Describing a Rash: Primary Lesions

- Macule/Patch Flat, non-palpable lesion
- Papule/Nodule Raised lesion
- Plaque A plateau-like lesion, confluent papules
- Vesicle/Bulla Circumscribed, elevated lesion containing fluid
- Pustule Elevated lesion containing pus
- Wheal Transient, elevated, edematous lesion often with clearing in center
- Maculopapular Some flat, some raised
- <u>Target/Iris</u> Concentric circles, different colors or levels

Describing a Rash: Secondary Changes

- <u>Lichenification</u> Thickened skin with distinct borders
- <u>Crusted</u> Hard and rough surface caused by dried sebum, exudate, blood, or necrotic tissue
- Scaly Heaped up horny epithelium, flaky
- Macerated Increase in water content, soggy
- Fissure Thin, linear erosion or ulcer
- Atrophy Loss of skin or tissue, thinning, shiny
- <u>Excoriated</u> Shallow hemorrhagic excavation, linear or punctate, from scratching
- Erosion Partial break in epidermis
- <u>Ulcer</u> Full thickness loss of the epidermis

BOARD

A Little Pathophysiology: 100

Epidermal hyperplasia results in scaly plaques

Epidermal hyperplasia results in scaly plaques

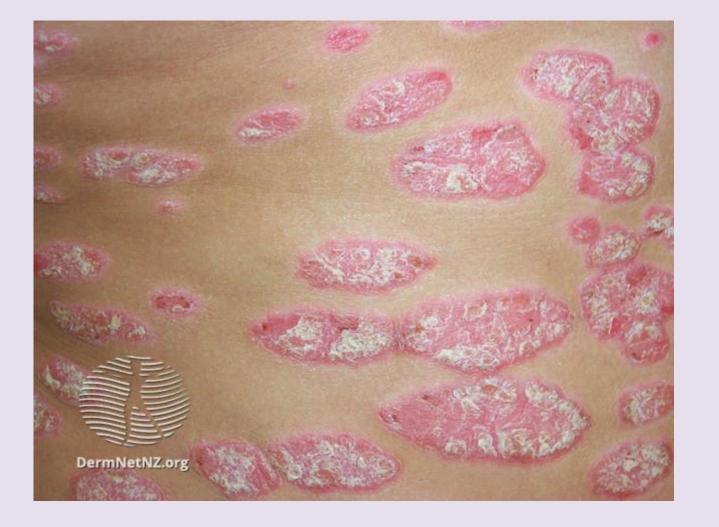
Psoriasis vulgaris Melasma Granuloma annulare Atopic dermatitis

Epidermal hyperplasia results in scaly plaques

Psoriasis vulgaris	
	0%
Melasma	
	0%
Granuloma annulare	
	0%
Atopic dermatitis	
	0%

Leaderboard

Nobody has responded yet.



BOARD

A Little Pathophysiology: 200

Inflammatory condition of the face associated with telangiectasias and Demodex infestation

Inflammatory condition of the face associated with telangiectasias and Demodex infestation

Rosacea Scabies Acne vulgaris Discoid lupus

Inflammatory condition of the face associated with telangiectasias and Demodex infestation

Rosacea

Scabies

Acne vulgaris

Discoid lupus

Leaderboard

Nobody has responded yet.







BOARD

A Little Pathophysiology: 300

Autoimmune subepidermal blistering disease

Autoimmune subepidermal blistering disease

bullous pemphigoid pemphigus vulgaris bullous impetigo

erythema multiforme

Autoimmune subepidermal blistering disease

bullous pemphigoid	
	0%
pemphigus vulgaris	
	0%
bullous impetigo	
	0%
erythema multiforme	
	0%

Leaderboard

Nobody has responded yet.





BOARD

A Little Pathophysiology: 400



Type IV, cell-mediated delayed hypersensitivity reaction of the skin.

Allergic contact dermatitis

Atopic dermatitis

Irritant contact dermatitis

Urticaria



Leaderboard

Nobody has responded yet.





BOARD

A Little Pathophysiology: 500

Activation of insulin-growth factor receptors on keratinocytes leading to keratinocyte and dermal fibroblast proliferation

Activation of insulin-growth factor receptors on keratinocytes leading to keratinocyte and dermal fibroblast proliferation

Pityriasis rosea Acanthosis nigricans Pityriasis alba Vitiligo Melasma

Activation of insulin-growth factor receptors on keratinocytes leading to keratinocyte and dermal fibroblast proliferation

Pityriasis rosea	
	0%
Acanthosis nigricans	
	0%
Pityriasis alba	
	0%
Vitiligo	
	0%
Melasma	
	0%

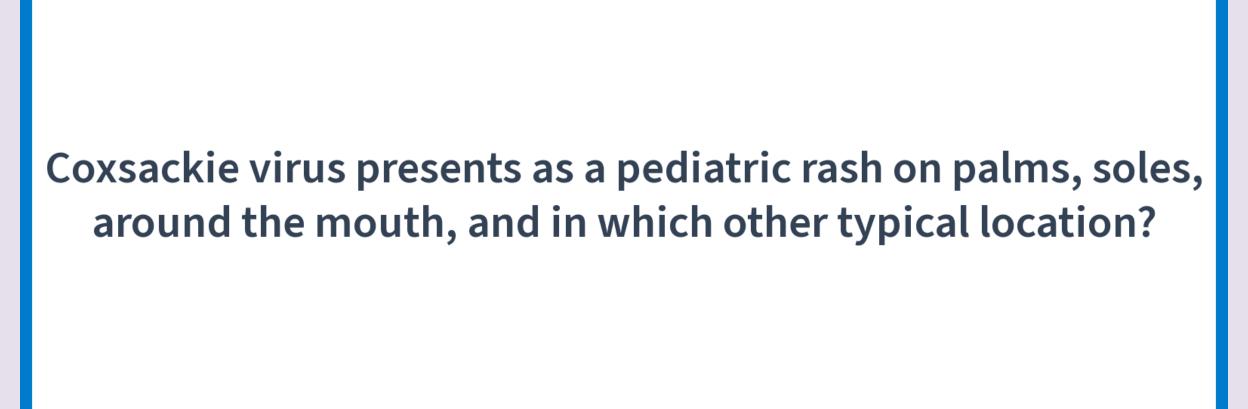
Leaderboard

Nobody has responded yet.



BOARD

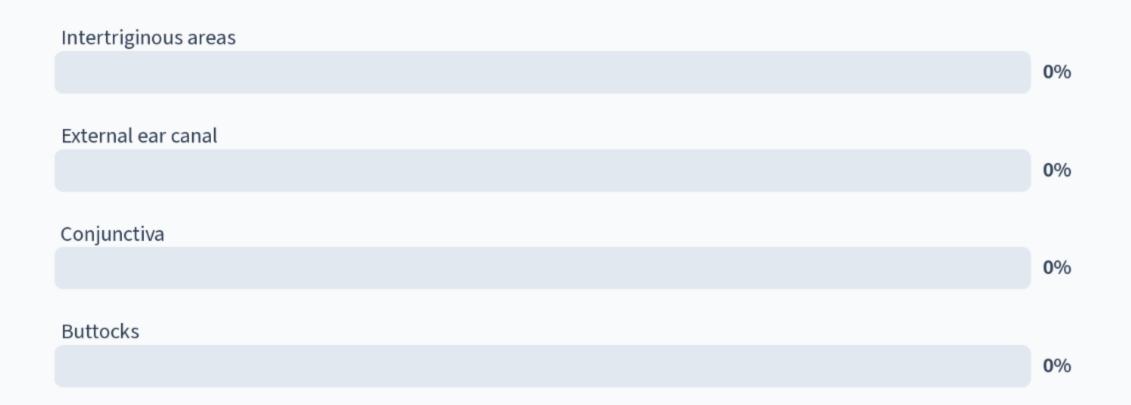
Distinctive Distribution: 100



Coxsackie virus presents as a pediatric rash on palms, soles, around the mouth, and in which other typical location?

Intertriginous areas External ear canal Conjunctiva **Buttocks**

Coxsackie virus presents as a pediatric rash on palms, soles, around the mouth, and in which other typical location?



Leaderboard

Nobody has responded yet.

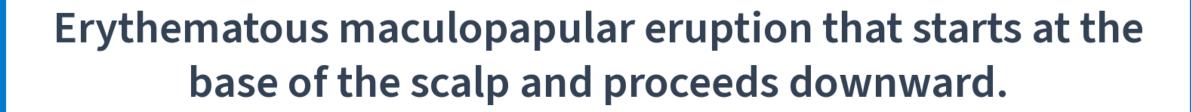




https://www.consultant360.com/article/consultant360/eczema-coxsackium

BOARD

Distinctive Distribution: 200



Erythematous maculopapular eruption that starts at the base of the scalp and proceeds downward.

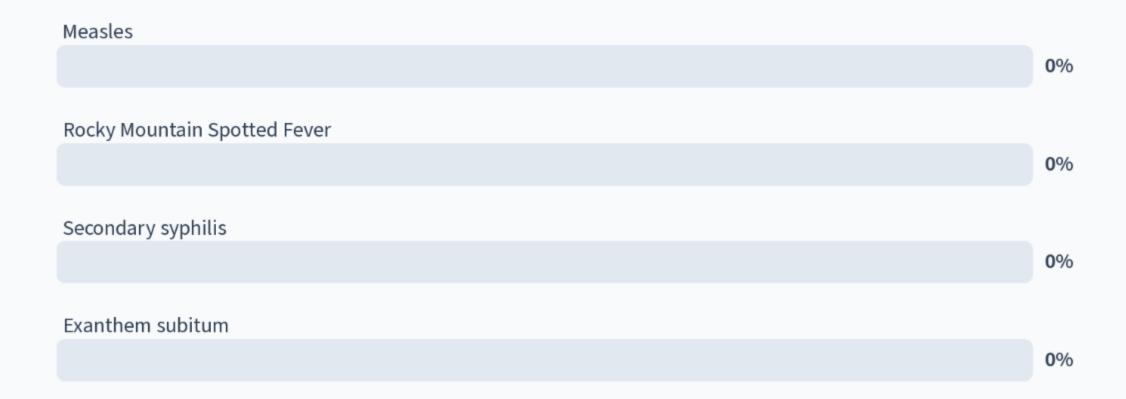
Measles

Rocky Mountain Spotted Fever

Secondary syphilis

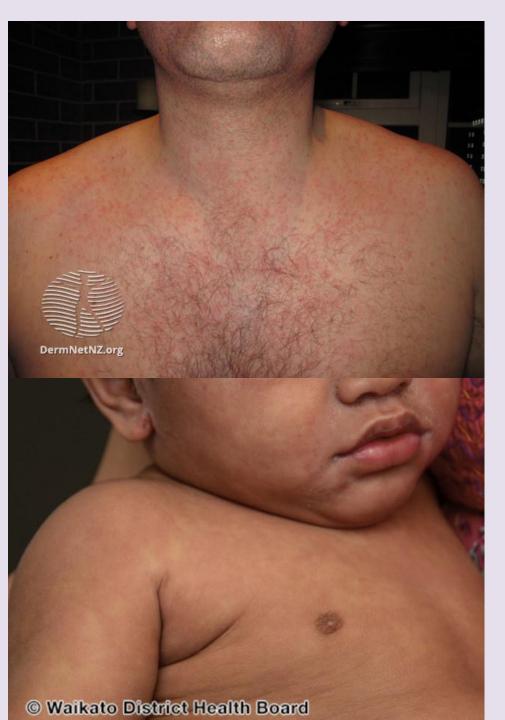
Exanthem subitum

Erythematous maculopapular eruption that starts at the base of the scalp and proceeds downward.



Leaderboard

Nobody has responded yet.





BOARD

Distinctive Distribution: 300

This common skin condition often presents in a dribbledown pattern on the anterior and posterior truck and consists of fawn-colored slightly scaly macules. This common skin condition often presents in a dribble-down pattern on the anterior and posterior truck and consists of fawn-colored slightly scaly macules.

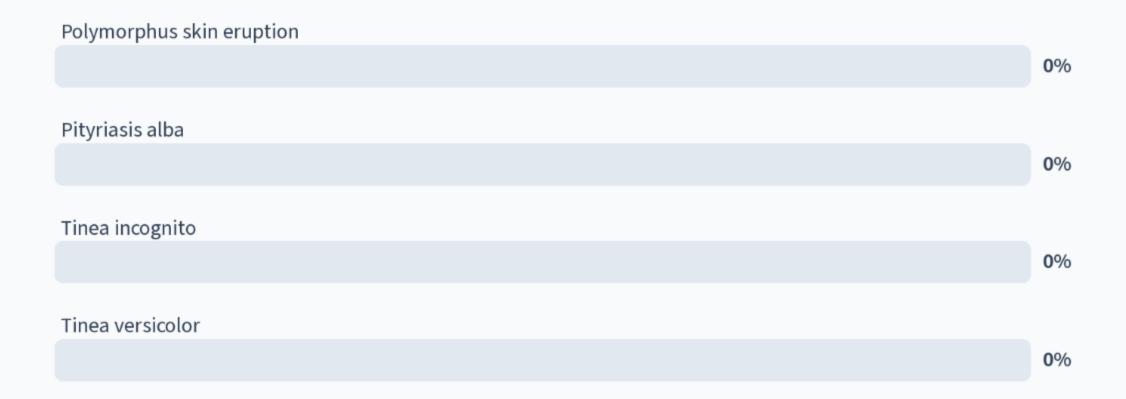
Polymorphus skin eruption

Pityriasis alba

Tinea incognito

Tinea versicolor

This common skin condition often presents in a dribble-down pattern on the anterior and posterior truck and consists of fawn-colored slightly scaly macules.



Leaderboard

Nobody has responded yet.





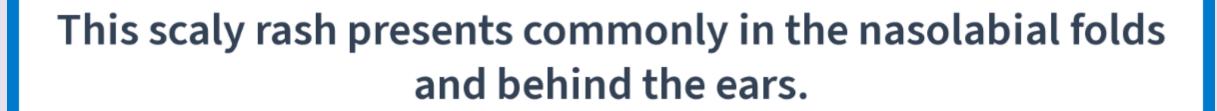
Figure 13-71 Tinea versicolor. The most common presentation with thin fawn-colored scaling papules on the upper chest.





BOARD

Distinctive Distribution: 400



This scaly rash presents commonly in the nasolabial folds and behind the ears.

Seborrheic dermatitis

Systemic lupus erythematosus

Rosacea

Peri-orificial dermatitis

This scaly rash presents commonly in the nasolabial folds and behind the ears.

Seborrheic dermatitis	
	0%
Systemic lupus erythematosus	
	0%
Rosacea	
	0%
Peri-orificial dermatitis	
	0%

Leaderboard

Nobody has responded yet.





BOARD

Distinctive Distribution: 500

This hypersensitivity reaction often produces targetoid lesions on the palms, soles and mucous membranes.

This hypersensitivity reaction often produces targetoid lesions on the palms, soles and mucous membranes.

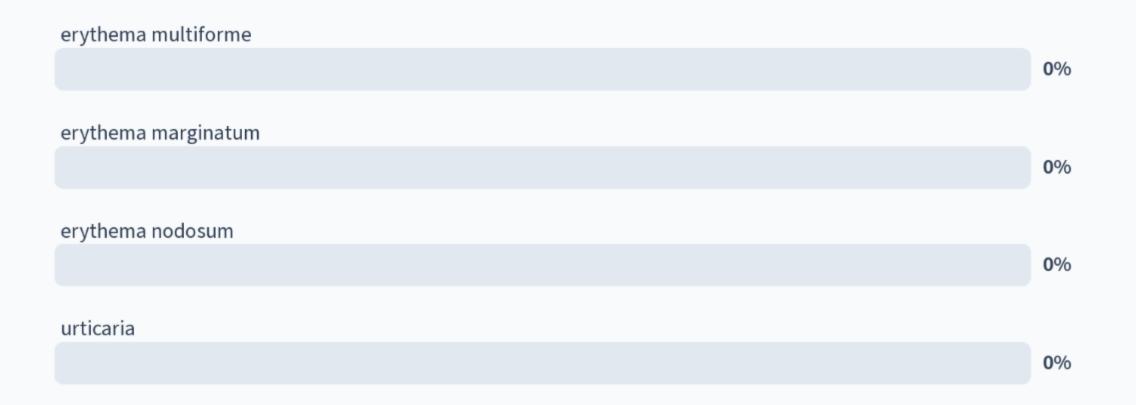
erythema multiforme

erythema marginatum

erythema nodosum

urticaria

This hypersensitivity reaction often produces targetoid lesions on the palms, soles and mucous membranes.





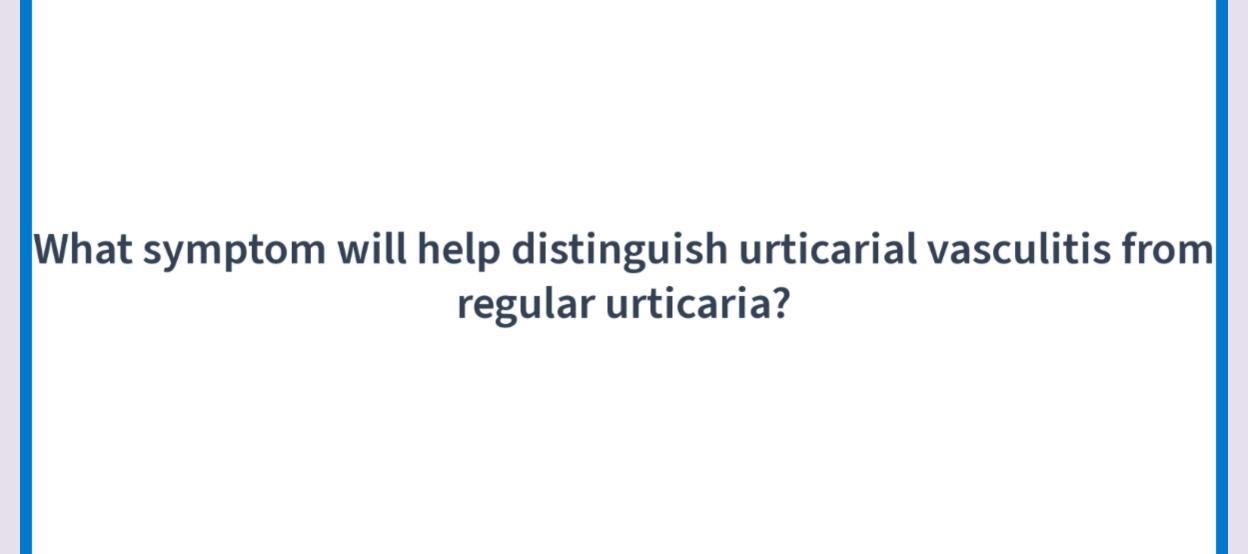
Nobody has responded yet.





BOARD

Historical Significance: 100



What symptom will help distinguish urticarial vasculitis from regular urticaria?

pain pruritius distal than central distribution presence of redness

What symptom will help distinguish urticarial vasculitis from regular urticaria?

pain	
	0%
pruritius	
	0%
distal than central distribution	
	0%
presence of redness	
	0%

Leaderboard

Nobody has responded yet.





BOARD

Historical Significance: 200

A disseminated rash that worsens with fever and fades when fever subsides in a cyclic daily fashion

A disseminated rash that worsens with fever and fades when fever subsides in a cyclic daily fashion

juvenile idiopathic arthritis roseola malaria secondary syphilis erythema marginatum

A disseminated rash that worsens with fever and fades when fever subsides in a cyclic daily fashion

juvenile idiopathic arthritis	
	0%
roseola	
	0%
malaria	
	0%
secondary syphilis	
	0%
erythema marginatum	
	0%

Leaderboard

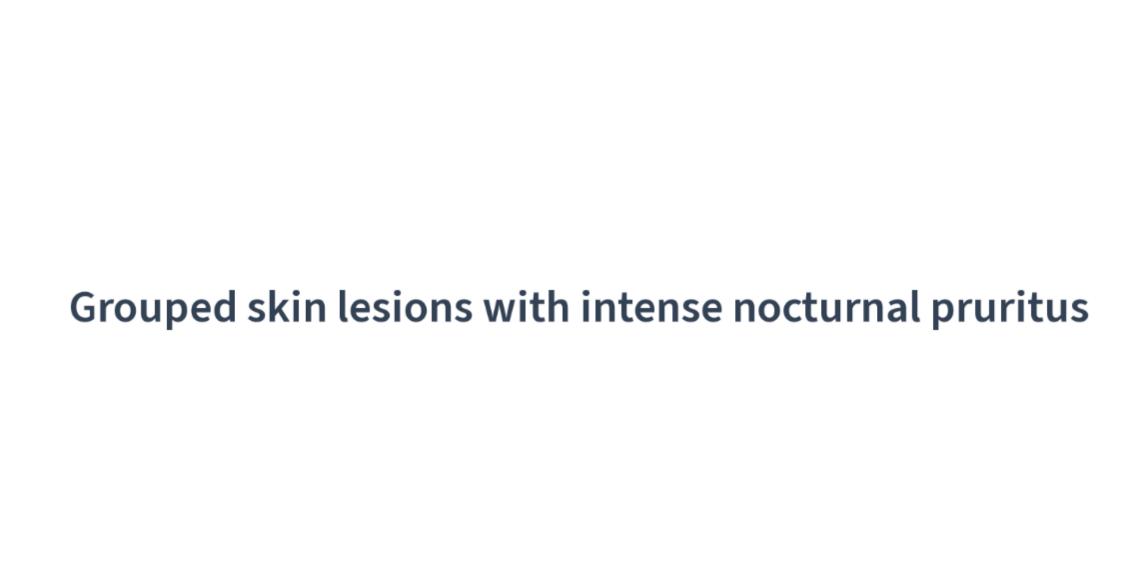
Nobody has responded yet.





BOARD

Historical Significance: 300





Grouped skin lesions with intense nocturnal pruritus

erythema multiforme	
	0%
scabies	
	0%
herpes zoster	
	0%
pityriasis rosea	
	0%

Leaderboard

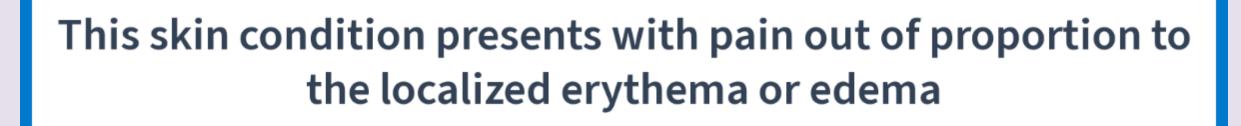
Nobody has responded yet.





BOARD

Historical Significance: 400



This skin condition presents with pain out of proportion to the localized erythema or edema

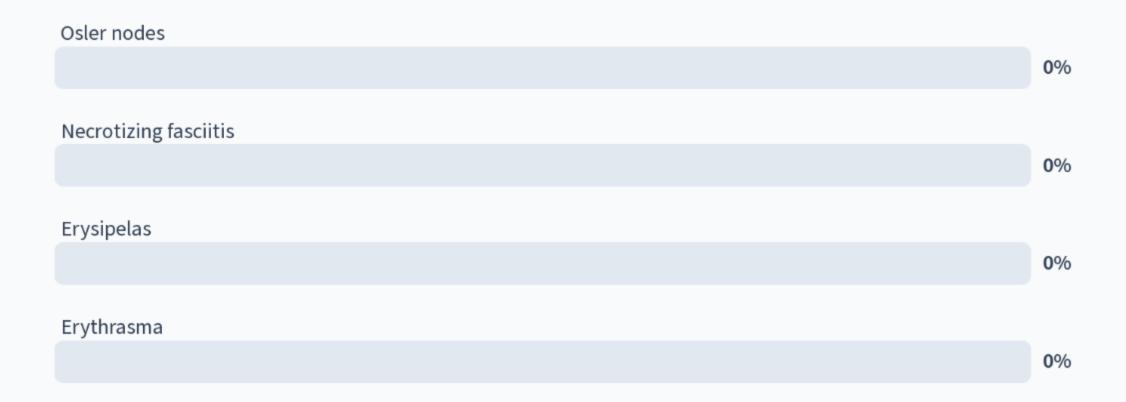
Osler nodes

Necrotizing fasciitis

Erysipelas

Erythrasma

This skin condition presents with pain out of proportion to the localized erythema or edema



Leaderboard

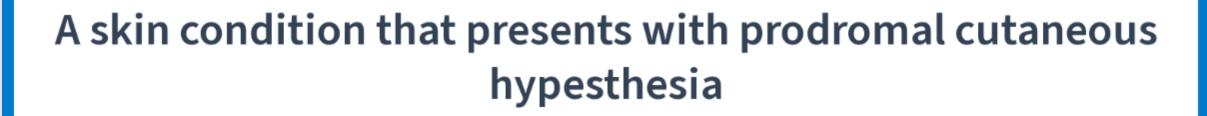
Nobody has responded yet.





BOARD

Historical Significance: 500



A skin condition that presents with prodromal cutaneous hypesthesia

Orolabial herpes

Tinea versicolor

Pityriasis rosea

Allergic contact dermatitis

A skin condition that presents with prodromal cutaneous hypesthesia

Orolabial herpes	
	0%
Times version lan	
Tinea versicolor	
	0%
Pityriasis rosea	
	0%
Allergic contact dermatitis	
	0%



Nobody has responded yet.





BOARD

A Few Good Resources

- Images http://www.dermnetnz.org
- UTD Approach to the clinical dermatologic diagnosis
 - https://www.uptodate.com/contents/approach-to-the-clinicaldermatologicdiagnosis?search=dermatology%20terms&source=search_result&sele ctedTitle=1~150&usage_type=default&display_rank=1
- VisualDx skin of color atlas https://www.visualdx.com/
- Global Skin Atlas http://www.globalskinatlas.com/searchdiag.cfm
- Fitzpatrick's Color Atlas & Synopsis of Clinical Dermatology
 - Wolff K, Johnson RA, McGraw Hill
- Clinical Dermatology, 5th Ed online and print
 - Habif T, Mosby

References

 Christenson LJ et al, Primary closure vs second-intention treatment of skin punch biopsy sites. Arch Dermatol;vol 141, Sept 2005. Accessed at www.archdermatol.com on May 31, 2023.