

Inflammatory Diseases of Hair Follicles, Sweat Glands, and Cartilage

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Correct Associations with Acne Vulgaris

- Decreased Ki-67 proliferation follicular epithelium
- Decreased serum antibody levels to *Propionibacterium acnes*
- Isotretinoin reduces sebum production
- Elevated 5-alpha reductase activity in both normal and acne-prone areas

May have more than one answer

Answer

- Isotretinoin reduces sebum production

Microbial Associations?

Disease	Microbial
Steroid Acne	P. Acnes
Acne vulgaris	P. Ovale
Perioral dermatitis	H. pylori
Rosacea	Demodex

Answers

Disease	Microbial
Steroid Acne	P. Ovale
Acne vulgaris	P. Acnes
Perioral dermatitis	None
Rosacea	Demodex H. pylori

Which disease exhibits granulomas?

Disease	Granulomas?
Acne vulgaris	
Ofuji's disease	
Democidosis	
Steroid acne	
Perioral dermatitis	
Follicular mucinosis	

Answers

Disease	Granulomas?
Acne vulgaris	Foreign body giant cells but no granulomas
Ofuji's disease	No
Democidosis	Yes, caseating and non-caseating
Steroid acne	Yes, often suppurative
Perioral dermatitis	Yes, usually non-caseating
Follicular mucinosis	No

Pertinent histopathological differential diagnoses for
Eosinophilic Pustular Folliculitis include:

- Incontinentia pigmenti
- Follicular mucinosis
- Pseudomonas folliculitis
- Erythema toxicum neonatorum
- Acne vulgaris

May have more than one answer

Answers

- Incontinentia pigmenti
- Pseudomonas folliculitis
- Erythema toxicum neonatorum

Hair Definitions

Structure	Definition
Telogen hair	Roots embedded in subQ fat
Vellus hair	Growing phase
Anagen hair	Resting phase
Catagen hair	Lack melanin pigment
Terminal hair	Apoptotic keratinocytes

Answers

Structure	Definition
Telogen hair	Resting phase
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Terminal hair	Roots embedded in subQ fat

Which alopecias show identical histopathology and can only be distinguished by clinical examination?

- Postmenopausal Frontal Fibrosing Alopecia
- Traction alopecia
- Lichen planopilaris
- Tufted folliculitis
- Folliculitis decalvans

Answers

- Postmenopausal Frontal Fibrosing Alopecia
- Lichen planopilaris

PFFA may show progressive recession of the frontal hairline with marked decrease or absence of the eyebrows, and focal scarring.

Key Histopathological Clues

Disease	Histopathology
Follicular Degeneration Syndrome	Follicular scarring with columns of fibrosis
Traction Alopecia	Eccentric thinning of follicular epithelium with lamellar fibroplasia
Pseudopelade of Brocq	Perifollicular lymphocytic inflammation lower infundibulum
Central Centrifugal Scarring Alopecia	Premature dequamation of the IRS
Postmenopausal Frontal Fibrosing Alopecia	Melanin pigment casts

Answers

Disease	Histopathology
Follicular Degeneration Syndrome	Premature dequamation of the IRS
Traction Alopecia	Melanin pigment casts
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Key Histopathological Clues

Disease	Histopathology
Androgenetic alopecia	Increased telogen hairs and miniaturized hairs
Telogen effluvium	Melanin pigment casts
Alopecia Areata	Increased telogen hairs without miniaturization
Trichotillomania	Miniaturization of the hair follicle

Answers

Disease	Histopathology
Androgenetic alopecia	Miniaturization of the hair follicle
Telogen effluvium	Increased telogen hairs without miniaturization
Alopecia Areata	Increased telogen hairs and miniaturized hairs
Trichotillomania	Melanin pigment casts