



Quiz

Fundamentals and Foundations in Dermatology – Quiz

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Received: 30 April 2024
Accepted: 13 July 2024
Epub Ahead of Print: 09 September 2024
Published: 07 February 2025

DOI
[10.25259/IJPGD_65_2024](https://doi.org/10.25259/IJPGD_65_2024)

Quick Response Code:



QUESTIONS

- Pertinax bodies are seen inside
 - Keratinocytes
 - Onychocytes
 - Trichocytes
 - Koilocytes
- Autotaxin plays an important role in itch associated with
 - Atopic dermatitis
 - Cholestasis
 - Uraemia
 - Amyloidosis
- The fundamental three-dimensional structure of keratinocytes in the stratum corneum and stratum granulosum, as shown by scanning electron microscopy and immunofluorescent microscopy, is
 - Truncated octahedron
 - Icosahedron
 - Triacontahedron
 - Tetrakaidecahedron
- The type II Keratin expressed in hair matrix is
 - K75
 - K76
 - K85
 - K86
- The 'perivascular extravasation unit' is located around
 - Precapillary arterioles
 - Capillaries
 - Post-capillary venules
 - Papillary loops
- The microbiome of antecubital fossa in healthy individuals is formed majorly by
 - Malassezia* and *Actinobacteria*
 - Malassezia* and *Proteobacteria*
 - Ascomycetes* and *Bacteroidetes*
 - Ascomycetes* and *Firmicutes*

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7. All are X-linked dominant disorders except:
 - a) Conradi-Hunermann-Happle syndrome
 - b) Incontinentia pigmenti
 - c) Focal dermal hypoplasia
 - d) Wiskott-Aldrich syndrome
8. All the following transcription factors are important for development, migration and survival of melanocytes except
 - a) MITF
 - b) KIT
 - c) SOX10
 - d) PAX3
9. The most common cyclobutene pyrimidine dimer (CPD) responsible for ultraviolet (UV-B) induced carcinogenesis is
 - a) CC-CPD
 - b) CT-CPD
 - c) TC-CPD
 - d) TT-CPD
10. The resident memory CD8+ T-cells reside in
 - a) Epidermis
 - b) Papillary dermis
 - c) Reticular dermis
 - d) Hypodermis
11. The central regulator of epithelial identity is
 - a) Beta-catenin
 - b) p63
 - c) BMP
 - d) SHH
12. Granular keratinocytes are defective in
 - a) Epidermolytic hyperkeratosis
 - b) Ichthyosis bullosa of Siemens
 - c) Ichthyosis hystrix
 - d) Epidermolysis bullosa simplex
13. Which of the following has the least contribution to the total skin surface lipids?
 - a) Triglycerides
 - b) Wax esters
 - c) Squalene
 - d) Cholesterol
14. Which of the following quality reporting tools is not used for systematic reviews/meta-analysis?
 - a) AMSTAR
 - b) OCEBM
 - c) PRISMA
 - d) QUOROM
15. The effectiveness of an intervention is measured by all except:
 - a) Explanatory studies
 - b) Pragmatic studies
 - c) Large simple studies
 - d) Peto studies
16. TGF-beta can be upregulated by all except
 - a) TNF-alpha
 - b) UV-B
 - c) Lipopolysaccharide
 - d) Retinoic acid
17. The number of pathophysiological reactive units in the skin are
 - a) 1
 - b) 2
 - c) 3
 - d) 4
18. The minimum punch size required for biopsy in a suspected case of panniculitis is
 - a) 4
 - b) 5
 - c) 6
 - d) 7
19. Which of the following is not a constituent of Michel's medium?
 - a) Ammonium sulphate
 - b) N-ethyl maleimide
 - c) p-ethyl maleimide
 - d) Magnesium sulphate
20. The level of split in friction blister is
 - a) Granular layer
 - b) Spinous layer
 - c) Suprabasal
 - d) Subepidermal
21. Depending on the anatomic component(s) primarily involved, nodules are of
 - a) 2 types
 - b) 3 types
 - c) 4 types
 - d) 5 types
22. Who described the basic morphological terms for fundamental skin lesions?
 - a) Robert Willian
 - b) Thomas Bateman
 - c) Daniel Turner
 - d) Louis Alibert
23. The initial molecules to reach the viable skin layers following the application of a topical drug formulation diffuse through
 - a) Transcellular pathway
 - b) Intercellular pathway
 - c) Follicular pathway
 - d) Eccrine pathway

24. Senear-Caro ridge is seen in
 a) Psoriasis
 b) Lichen planus
 c) Palmoplantar keratoderma
 d) Porokeratosis
25. In which form of teledermatology, the primary healthcare provider communicates with a dermatologist?
 a) Primary
 b) Secondary
 c) Tertiary
 d) Patient assisted
26. Fluorescence-advanced videodermatoscopy has a wavelength of
 a) 364 nm
 b) 400 nm
 c) 405 nm
 d) 464 nm
27. The sweat gland placodes are formed at what gestational age (in weeks)?
 a) 9
 b) 10
 c) 12
 d) 14
28. The major protein in stratum corneum is
 a) Filaggrin
 b) Involucrin
 c) Loricrin
 d) Envoplakin
29. Identify the Noyes-Whitney equation
 a) $kp = D \cdot K_{se}/v/h$
 b) $\log kp = -2.7 + 0.71 \cdot \log P - 0.0061 \cdot MW$
 c) $J_{max} = kp \cdot C_v, sat$
 d) $dC/dt = D \cdot A \cdot K_w/o (C_s - C_b)/v \cdot h$
30. Cells within the Huxley layer that extend through the Henle layer and attach directly to the companion layer are referred to as
 a) Fluegelzellen or wing cells
 b) Tadpole cells
 c) Brush cells
 d) Lozenge cells

ANSWERS

1. b^[1]
2. b^[2]
3. d^[3]
4. c^[4]
5. c^[5]
6. a^[6]
7. d^[7]
8. b^[8]

9. d^[9]
10. a^[10]
11. b^[11]
12. b^[12]
13. d^[3]
14. b^[13]
15. a^[13]
16. a^[14]
17. c^[15]
18. c^[15]
19. c^[16]
20. b^[15]
21. d^[17]
22. a^[18]
23. b^[19]
24. a^[20]
25. b^[21]
26. c^[22]
27. c^[11]
28. a^[3]
29. d^[23]
30. a^[4]

Ethical approval: Institutional Review Board approval is not required.

Declaration of patient consent: Patient's consent not required as there are no patients in this study.

Financial support and sponsorship: Nil.

Conflicts of interest: There are no conflicts of interest.

Use of artificial intelligence (AI)-assisted technology for manuscript preparation: The author confirms that there was no use of artificial intelligence (AI)-assisted technology for assisting in the writing or editing of the manuscript and no images were manipulated using AI.

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How to cite this article: Gaurav V. Fundamentals and Foundations in Dermatology – Quiz. Indian J Postgrad Dermatol. 2025;3:103-6. doi: 10.25259/IJPGD_65_2024