

Revision questions on the core concept videos and edderm101:core concepts PDF.



Audio track answers are [here](#). The URL for the audio answers is:

<https://soundcloud.com/user-40888762/sets/basic-concepts-skin-science>

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- Q1 Skin has two main components. One is thick, one thin; one cellular the other less so. Tell me more.
- Q2. In addition to keratinocytes, name three other cell types found in the epidermis.
- Q3. What is the main role of fibroblasts in the dermis?
- Q4. Name three appendageal structures.
- Q5. Name the four layers of the epidermis
- Q6. What are the granules in the granular layer made up of?
- Q7. If you inactivate desmosomes, what physical sign or type of lesion might you see?
- Q8. Name two ways in which desmosomes may be inactivated.
- Q9. Explain the components of the 'bricks and mortar' model. How do they work?
- Q10. What are lipid lamellae? What function do they serve?
- Q11. A range of different agents that damage skin (friction, irritants) produce two changes in the epidermis: what are they, and what names do we use for them?
- Q12. Name an enzyme important in melanin biosynthesis. Mutations of it cause what disease?
- Q13. Name and describe the two classes of melanin. What phenotypes are associated with them?
- Q14. Is there more melanin in melanocytes or keratinocytes?
- Q15. Do women have thicker skin than men?
- Q16. Name two diseases associated with collagen mutations.
- Q17. Why do those treated with steroids or those who are old, bruise easily?
- Q18. Name a mediator released from mast cells. Describe 3 effects of release of this agent.
- Q19. Why may the absence of or significant malfunction of sweat glands be fatal?
- Q20. Describe the action of three hormones on sebum excretion.
- Q21. Name three types of hair, and name three phases of the hair cycle
- Q22. Why is your hair longer on the scalp than on your chest?
- Q23. Which grow quicker, finger or toenails? Why do you think there is this difference?
- Q24. Is there a parasympathetic nerve supply to skin?
- Q25. Name three arguments for why pain and itch appear to have some relation.
- Q26. How do sedative antihistamines work in atopic dermatitis? Are you sure?
- Q27. Compare and contrast Type 1 and Type 4 hypersensitivity reactions (list 3 differences). Name some example diseases that we can ascribe to these reactions.



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