



Sohag university

Histology department

Faculty of medicine

Skin and musculoskeletal block

Skin

Histology cases

Prepared by

Dr/ Hoda M. Elsayed

Assistant professor of histology

Case 1



A 25 years old male presented with scaly skin over the knees. He was diagnosed as psoriasis. Psoriasis is a common skin disorder characterized by a rapid renewal of the epidermis with increased epidermal thickness..

1-What is the normal proliferation rate of the epidermis?

a-15-20 hours

b-15-20 days

c-15-20 weeks

d-15-20 months

2-Which layer is responsible for epidermal renewal?

a-stratum spinosum

b- stratum granulosum

c-stratum basale

d-stratum lucidum

3-Which layer of the epidermis undergo normal shedding?

a-stratum corneum

b-stratum basale

c-stratum granulosum

d-stratum lucidum

4-The fully differentiated cell layer in the epidermis is called?

a-Corneocyte

b-Merkel

c-Langerhans

d-Melanocyte

Case 2:



A 40 years old male presented with depigmented areas in his face. He was diagnosed as vitilligo which is characterized by degeneration and disappearance of melanocyte.

1-In which layer melanocyte lie?

- a-Stratum basale
- b-Stratum spinosum
- c-Stratum granulosum
- d-Stratum lucidum

2-Which is the characteristic feature of melanocyte?

- a-Keratohyaline granules
- b-Berbek granules
- c-Keratinosomes
- d-Melanosmes

3-Melanin is transferred from melanocyte to which of the following cells?

- a-Merkel cell
- b-Keratinocyte
- c-Langerhans cell
- d-Lymphocyte

4-Which is the function of melanin in the skin?

.....

5-To which part of the cell melanin is transferred?

Case 3:



A 15 years old male presented with acne which is a disorder affected sebum secreting gland in the skin.

1-What is the name of the affected gland?

- a-Sebaceous gland
- b-sweat gland
- c-lacrimal gland
- d-None of the above

2-In which layer lie this gland?

- a-Stratum basale
- c- Stratum corneum
- c-dermis
- d-none of the above

3-The duct of this gland open in which of the following structure?

- a-Upper third of hair follicle
- b-Lower third of hair follicle
- c-Middle of the hair follicle
- d-None of the above

4-What is the nature of the gland secretion?

- a-glycoproteins
- b-lipids
- c-proteins
- d-glycolipids

5- Describe the structure of the gland?

.....
.....

Case 4



A 20 years old male presented with a local area devoid of hair. He was diagnosed as alopecia areata which an autoimmune disorder affecting the hair follicles.

1-In which layer of the skin lie the hair follicle

a-Epidermis

b-Dermis

c-Hypodermis

d-Both b& c

2-Which of the following are part of the hair?

a-cortex

b-cuticle

c-medulla

d-all of the above

3- Which of the following are parts of the hair follicle?

a-inner root sheath

b-outer root sheath

c-all of the above

d-none of the above

4- Enumerate different parts of hair arise from matrix cells?

a-.....

b-.....

c-.....

Case 5



A 30 years old female presented with a watery vesicle as a result of first degree burn which affect the superficial layer only of the skin?

1-What is name of this layer?

a-Epidermis

b-Dermis

c-Hypodermis

d-Both b& c

2- Which is the major cell population in this layer?

a-Keratinocyte

b-Merkel cell

c-Langerhans cell

d-lymphocyte

3- Enumerate different strata of the superficial layer of the skin?

a-.....

b-.....

c-.....

d-.....

4- Which of the above layers are responsible for regeneration and healing from burn?

.....

5- What is the normal renewal rate of the skin?

.....

Case 6



A 22 years old male presented with hyperpigmented area in his skin. It was diagnosed clinically and by histopathological examination as nevus which is an increase in the number of melanocyte.

1-In which layer melanocyte lie?

- a-Stratum basale
- b-Stratum spinosum
- c-Stratum granulosum
- d-Stratum lucidum

2-Which is the characteristic feature of melanocyte?

- a-Keratohyaline granules
- b-Berlek granules
- c-Keratinosomes
- d-Melanosomes

3-Melanin is transferred from melanocyte to which of the following cells?

- a-Merkel cell
- b-Keratinocyte
- c-Langerhans cell
- d-Lymphocyte

4-Which is the function of melanin in the skin?

.....

5-In which part of the cell melanin is located?

.....