Syrian Private University Medical Faculty

Medical Terminology M.A.Kubtan , MD – FRCS Lecture 3





- •Name the parts of the Integumentary system and discuss the function of each part.
- •Define the combining forms used in building words that relate to the Integumentary system.
- •Identify the meaning of related abbreviations.
- •Name the common diagnoses, laboratory tests and clinical procedures used in testing and treating the Integumentary system.

Objectives cont'd

•Define the major pathological conditions of the Integumentary system.

•Define surgical terms related to the Integumentary system.

•List common pharmacological agents used in treating the Integumentary system.

Skin is the largest organ of the body, and serves to:

- Protect against injury
- Protect against the sun UV rays
- Prevent entry of harmful microorganisms
- •Maintain the proper internal body
- temperature
- Excrete waste materials through perspiration
- Function as a sense organ





Epidermal Layer

Outermost skin layer
Consists of several sublayers
Top sublayer is called the stratum corneum
Nonvascular
Keratin is found in the cells



•Stratum germinativum is the bottom sublayer where new cells are produced that push up toward the stratum corneum



Dermal Layer

Also called the *corium*Contains two sublayers the *papillary* layer and the *reticular* layer
Holds many capillaries, lymph cells, nerve endings, sebaceous and sweat glands and hair follicles

•Collagen fibers are found in the connective tissue and when collagen fibers stretch, they form *striae*

Subcutaneous Layer

Also called the hypodermis Found between the dermal layer and the inner organs Consists of adipose or fatty tissue and some fibrous tissue

Fatty tissue protects inner organs and maintains body temperature
Blood vessels and nerves are present

subcutaneous

Hair

- •Hair grows out of the epidermis to cover parts of the body.
- •The *shaft* is what we see and the *root* lies below the surface of the skin.



Hair color is determined by the presence of melanin.

Baldness or *alopecia* may result from heredity, disease, injury, or chemotherapy.

Nails

•Nails are plates made of hard keratin that cover the dorsal surface of the fingers and toes.



•At the base of most nails a lunula or whitish half-moon is an area where keratin and other cells have mixed with air.

•The cuticle is a narrow band of epidermis that surrounds the base or bottom of nails.

Glands

•Sudoriferous glands, also known as sweat glands, secrete outward toward the surface of the body (exocrine) and are located almost everywhere on the body.



•The excretion of sweat is called *diaphoresis*.

Combining Forms	
Combining Form	Meaning
•adip(o)	fatty
•dermat(o)	skin
•hidr(o)	sweat, sweat glands
•ichthy(o)→	fish, scaly
•kerat(o)→	horny tissue
•lip(o)	fatty



Diagnostic, Procedural and Laboratory Tests



The field of **Dermatology** studies, diagnoses, and treats ailments of the skin.

Diagnostic, Procedural and Laboratory Tests

•Exudate (pus) is material that passes out of tissues. The laboratory can use this to determine the types of bacteria present.



•A scraping can also be done and placed on a growth medium to identify the presence of fungi.