

4: epithelium Cheat Sheet

by Aahj via cheatography.com/179048/cs/38145/

general features of epithelium

covers body surfaces & lines body cavites composed almost entirely of sheets of closely packed cells

very little intracellular space and extracellular material

no blood vessels: avascular

renewal: capacity to regenerate: good thing: balance cell death and cell proliferation

-more cell death than formed: ulcer -more cell formed: cancer

--most likely location of epi to get damaged is skin

epithelial cells are often strongly connected by junctions.

originate from 3 primary germ layers(eco,e-ndo,meso-derm)

polarity: diff area diff structure: apical side (the area of an epithelial cell adjacent to the exterior or to body cavity) opp area=basal;

ALWAYS supported by a layer extracellular matrix know as basement membrane.

BM: basement membrane or basal lamina

BM=interwoven network of laminin & collagen IV (4) attached by nidogen/entactin and proteoglycan

epithelial cell membrane attached via integrins to laminin.

II=lamina lucida: less fiber

LD: lamina densa

-proteoglycan rich in cards: positive to pas

function of epithelium

protection

absorption

secretion

transportation

filtration

sensory reception

types of epithelia

based on **number** of cell sin apical layer

1 layer: simple
1. squamous=flat, scale like

more than 1: stratified.
2. cuboidal=cube-shaped
3.columnar=column-shaped



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