

A&P Lecture 1 Cheat Sheet by Morghay123 via cheatography.com/53154/cs/14364/

General Definitions

Anatomy: The science of body structures and relationships

Physiology: The science of body functions

Homeostasis: a condition of equilibrium (balance) in the body's internal environment

Structural Levels of the Body

1. Chemical Level	Atoms (C,H,O,N,P)
2. Cellular Level	Chemicals together - smallest basic living unit of the body
3. Tissue Level	Cells coming together
4. Organ Level	Stomachsingle organisms in a body
5. Organ System Level	Digestive System Group of organs
6. Organism Level	Human Organ Systems

Organ Grou	ups = Organ Systems
Integumen tary	hair, skin, nails, endocrineal glands
Skeletal	Bones, Cartilage, Joints
Muscular	Skeletal Muscle
Nervous	Brain, spinal cord, nerve
Lymphatic	thymus, spleen, lymphatic vessel, lymph node
Respirator y	Larynx, lung, bronchea, pharynx
Reproduct ive	Ovary, testes, penis, vagina, mamary gland
Urinary	Kidney, ureterm urinary bladder, urethra
Cardiovas cular	Heart, artery, vein, blood vessels
Endocrine	Pineal gland, thyroid gland, pancreas, ovary, testis, adrenal

Positive Feedback System: Normal Childbirth (cont)

3. Oxtocin is released into the blood

4. Contractions enhanced and baby pushes farther down the uterus

5. Cycle continues to the birth of the baby (no stretching)

Sagittal Plane	Head to toe slice dividing body into right and left sides
Mid-sagittal/ median plane	At the mid line, equal right and left halves
Transverse Plane	Slice that cuts the body into superior and inferior parts
Coronal or frontal plane	Slice that cuts the body into anterior and posterior parts

Upper Limb	arm, forearm, wrist, hand
Lower Limb	thigh, leg, ankle, foot
Trunk	thorax, abdomen, pelvis

Feedback Systems

Receptor	Body	Nerve ending of the
	structure	skin response to
	that	temperature change
	monitors	
	and sends	
	input to the	
	control	
	center	
Control	Brain	Sets range of
Center		values; evaluates
		input; generates
		output command as
		Nerve impulses

output from the control center and produces a respponse skeletal muscles to that changes contract which causes shivering to controlled generate heat

Recieves

conditions

(effectors) found in nearly Positive Feedback System: Normal every organ or tissue; if body temp drops, brain sends 1. Uterine an impulse to the contrations cause

Negative Feedback

Digestive

External (running) or	Baroreceptors
internal (stress)	(pressure sensitive
stimulus increase BP	receptors)
- Detect higher Bp	- send nerve

stomach, pancreas

gland,, thymus, pituitary gland

Pharynx, anus, small intestine, large intestine, gallbladder, liver,

> impulses to brain (control center) for interpretation

2. Stretch-sensitive

impulse to brain

receptors in cervix send

- Response sent via - BP drops and nerve impulse to heart homeostasis is and blood vessels restored

- Drop in BP negates the original stimulus

Tissue Types Connective

Epithelial

Nervous

Muscle

Different types of tissues can be grouped together to form an organ.

Skin= Epidermis (epithelial tissue) + Dermis (connective tissue)

Heart=Outerwall (epithelial &

Connective)+Middle (muscle)+Inner Wall (epithelial & connective)

Characteristics Essential for Life

Organization

Metabolism

Responsiveness

Growth

Development

Reproduction

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cervix to open

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Effector



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Control of Homeostasis	
Physical Insults	exercise, cut in hand
Chemical in the Internal Environment	Glucose/Salt fluxuations
Physiological Stress/Imbalance	Flu Shot
Disruptions (long and short term)	Short: Exercise Long: cells stop producing dopamine> Parkinsons
Homeostatic Imbalances: Normal equilibrium of body processes are disrupted	

Intro Terms for Body Orientation	
Anatomical position	Standing, facing forward, palms forward
Supine	when laying face up
Prone	When laying face down
Superior	The head is above the shoulders
Inferior	The shoulders are below the head
Caudal	Towards the tail
Cranial/ Cephalic	Towards the head
Proximal	Closer to you
Anterior	Front
Posterior/ Dorsal	Back
Lateral	off to the side of the midline
Medial	Towards the midline
Superficial	On the surface
Deep	Inside



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