

AWESOME ANATOMY INTRODUCTIONS – Ch 1 Notes

I. Introduction

Anatomy:

Micro-cell, histology
Gross-surface, regional, systems

Physiology:

Cell physiology
System physiology
Pathological physiology

Structure determines function

II. Levels of Organization

Atoms/Molecules:

Cells:

Tissues:

Organs:

Organ Systems:

Organism:

III. Characteristics of Life

Maintaining boundaries:

Movement:

Digestion:

Excretion:

Growth:

Reproduction:

Metabolism:

Responsiveness (irritability):

IV. Survival Needs

Nutrients

1. _____ are main fuel. _____ and _____ build cell structures. _____ and _____ are for chemical reactions.
2. Oxygen
 - In order to get energy from food, you need Oxygen
3. Water – makes up _____ to _____ % of body weight
4. Body Temperature:
 - Decrease temperature and reactions get _____
 - Increase temperature and reactions get _____
 - Body heat is from using _____
5. Atmospheric Pressure
 - Force exerted by weight of air
 - High altitude – air is thin, pressure is lower

IV. Homeostasis

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V. Language of Anatomy

A. Anatomical Position

Body erect, feet together, arms hang at side

**palms facing _____

B. Directional terms

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Superior

Inferior

Anterior

Posterior

Medial

Lateral

Proximal

Distal

Only applies to ARMS and LEGS

Superficial

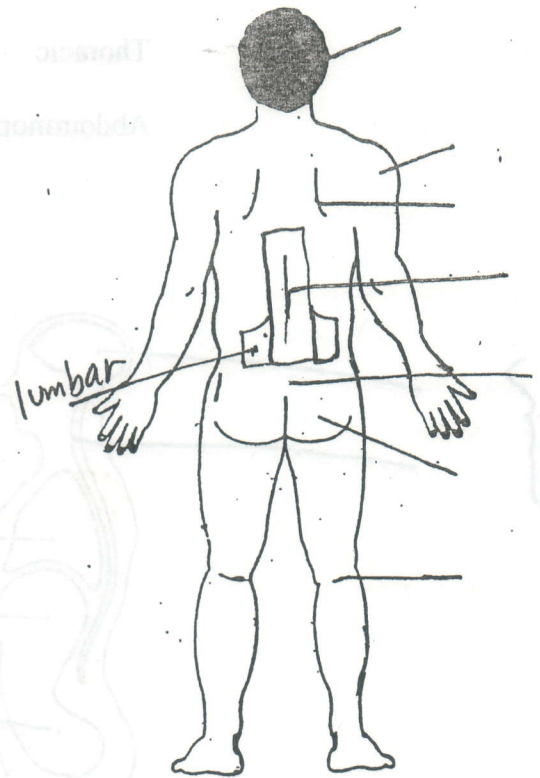
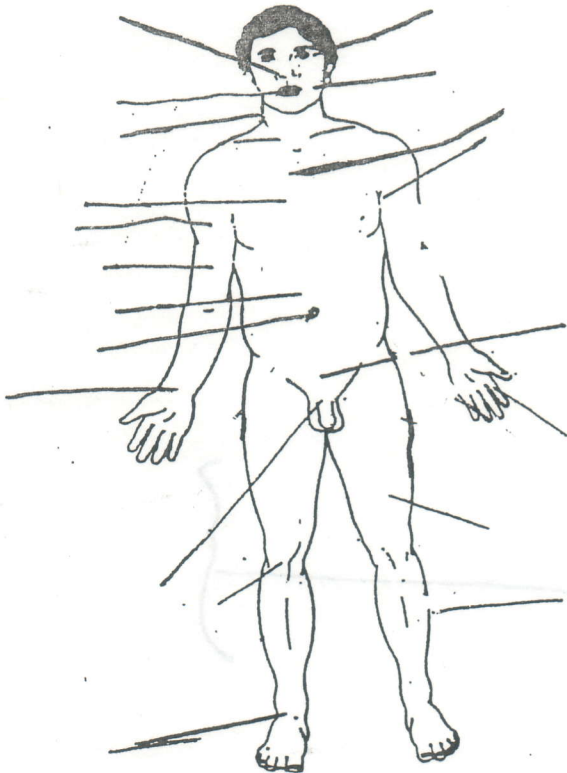
Deep

C. Body Landmarks

Visible landmarks on body for reference

Anterior:

Posterior:



D. Body planes

Medial (Sagittal)

Frontal (Coronal)

Transverse (cross section)

E. Body Cavities

Dorsal:

Cranial

Spinal

Ventral:

Thoracic

Abdominopelvic

