

HUMAN ANATOMY & PHYSIOLOGY I

STUDY GUIDE FOR LAB PRACTICAL I

INSTRUCTOR: CJ SHUSTER

-you must also know all diagrams from your lab book (including associated word lists).

-you must know all microscope slides and dissections as outlined on this study guide.

-you are also responsible for the wall charts.

THIS IS A REVIEW, AND DOES NOT INCLUDE DRAWINGS, VALUES ETC. FROM THE MANUAL!!!!!! THIS IS NOT A CONTRACT!!! My only guarantee is that this will cover 90-95% of the items seen on the lab practicals.

CHAPTER 9-AXIAL SKELETON:

A. SKULL

sutures-know the ones outlined below

base

floor

coronal suture

squamosal suture

lambdoidal suture

sulci - those grooves inside the skull cap

sutural bone

frontal

orbit

supraorbital foramina

sagittal suture

parietal bone

occipital bone

lambdoidal suture

foramen magnum

occipital condyles

hypoglossal canals

occipitomastoid suture

temporal bone

squamosal sutures

styloid processes

mastoid process

external auditory meatus

internal auditory meatus

petrous portion

auditory ossicles - malleus, incus,

stapes

jugular foramen

carotid canals

foramen lacerum

foramen ovale

mandibular fossa

zygomatic process of temporal bone

also know the zygomatic arch

sphenoid bone

greater wing of the sphenoid

hypophyseal fossa

sella turcica

posterior clinoid process

optic foramina

anterior clinoid process

foramen ovale

foramen lacerum

foramen spinosum

ethmoid

crista galli

cribiform plate

perpendicular plate

nasal bones

maxillae

alveolar process, margins and processes

palatine process

incisive foramen/fossa

infraorbital foramen

zygomatic bones

temporal process of zygomatic bone

lacrimal bones with lacrimal canal

superior & inferior orbital fissures
vomer bone
nasal septum & nasal conchae
palatine bones
mandible
 mandibular condyles
 rami
 body
 angles
 mental foramina
 mandibular notch
 mandibular foramen
 coronoid process
paranasal sinuses
 ethmoid sinuses
 frontal sinus
 maxillary sinus
 sphenoid sinus
mastoid sinus
fontanel
 anterior/superior fontanel
 posterior fontanel

B. VERTEBRAL COLUMN

*be able to differentiate between
cervical, thoracic and lumbar vertebrae.
Know how many of each type there are.

vertebral column
vertebrae
vertebral foramen
vertebral canal
intervertebral disk
body
pedicles
intervertebral foramen
laminae
neural arch
transverse process
spinous process
 bifid spinous process
transverse foramen
articular facets
thoracic facets
pedicle
axis
atlas
odontoid process
cervical curve
thoracic curve
lumbar curve
sacral curve
sacrum
coccyx
hyoid
sternum
 manubrium
 body
 xiphoid process
costae
 costal cartilage
 costal end
 head & neck
 vertebrosternal (true)
 vertebrochondral (false)
 vertebral (floating)

This is a guide for what the student should learn off of the various models, dissections, etc. This is a guide only; it is not an exclusive list.

This list is for all axial skeletal labs (skull and vertebral column).

Skeletons, Models & Charts found in Regular Lab & Learning Lab

Articulated skeletons:

Any bone or associated structure (aponeurosis, etc.) you can see. Be able to ID bones & markings.

Disarticulated skeletons:

Any bone or associated structure (aponeurosis, etc.) you can see. Be able to ID bones & markings. Make sure to look at vertebrae, including C1 & C2.

Plastic Vertebrae types (on stand):

ID types of vertebra, individual parts of vertebrae, C1 & C2.

Full Vertebral Column: Curves, Regions, Vertebrae types, anything on word list you can see.

Partial Vertebral Column (has nerves & Spinal Cord): See above.

Any muscle or associated structure (aponeurosis, etc.) you can see. Superficial muscles only.

Ear Ossicles:

ID them. Know basics.

Jaw:

Know all parts on wordlist.

½ skull, mounted:

Know all parts on word list. Pay attention to hard palate region & sinuses.

Big Nose sagittal model:

Know all parts on word list. Pay attention to hard palate region & sinuses. Note nasal septum & ethmoid bone.

Painted skulls:

Know all parts on word list.

Fetal Skull: **See figure 7.33 in Lecture Book.**

The following models will not be in the learning lab

*these models are for guidance during regular lab period.

Disarticulated Skull
Human Demo Skull (take-apart skull) with sinuses

Other:

See ligaments of vertebral column and herniated disk image **in lecture book**.