# Labs 1 and 2: MUSCULAR SYSTEM

<u>Cat Muscles</u>	<u>Structures</u>
1. Pectoralis major	
2. Pectoralis minor	
3. *Clavotrapezius	
4. *Acromiotrapezius	
5. *Spinotrapezius	Lumbodorsal Fascia
6. *Clavodeltoid	
7. *Acromiodeltoid	
8. *Spinodeltoid	
9. Latissimus dorsi	
10. Levator scapulae ventralis	
11. Serratus ventralis	
12. Rhomboideus (major, minor, capitis)	
13. Supraspinatus	Rotator cuff
14. Infraspinatus	
15. Teres major	
16. Subscapularis	
17. Digastric	
18. Mylohyoid	
19. Sternomastoid	
20. Cleidomastoid	
21. Sternohyoid	

- 22. Masseter
- 23. Triceps brachii (long, lateral, medial heads)
- 24. Biceps brachii
- \* Cat only

<u>Cat Muscles</u>	<u>Structures</u>
25. Brachialis	
26. Flexors, lower forelimb	
27. Extensors, lower forelimb	
28. External oblique	Aponeurosis
29. Internal oblique	
30. Transversus abdominis	Peritoneum
31. Rectus abdominis	Linea alba
32. External intercostals	
33. Internal intercostals	Pleura
34. Sartorius	Tailor's muscle
35. Gracilis	
36. Tensor fascia lata	
37. Gluteus medius	
38. Gluteus maximus	
39. Biceps femoris	
40. Semimembranosus	Sciatic nerve
41. Semitendinosus	Hamstring Muscles:
	1. Biceps Femoris
	2. Semitendinosus
	3. Semimembranosus
42. Quadriceps femoris	
a. Rectus femoris	
b. Vastus medialis	
c. Vastus lateralis	
d. Vastus intermedius	
13 Gastrochemius	Calcaneal (Achilles) tendon

- 43. Gastrocnemius
- 44. Soleus

Calcaneal (Achilles) tendon

HUMAN MUSCLE LIST			
<u>Muscle</u> Masseter	<u>Origin</u> zygomatic arch	<i>Insertion</i> mandibular ramus	<u>Action</u> closes jaw
Temporalis	temporal bone	mandible	closes jaw
Sternocleidomastoi	d sternum & clavicle	mastoid process	flexes neck forward (if both contract)
Pectoralis major	clavicle, sternum	greater tubercle (humerus)	flexion, adduction, medially rotates arm
Deltoid	acromion & spine of scapula, clavicle	deltoid tuberosity (humerus)	abducts arm
Intercostals:			
External	lower border of each rib	upper border of next rib	elevate ribcage, inspiration
Internal	upper border of rib below	lower border of rib above	depress ribcage, expiration
Rectus abdominis	pubic symphysis	xiphoid process, 5th-7th costal cartilages	flexes vertebral column, abdominal compression
External oblique	lower 8 ribs	linea alba, iliac crest	flexes vert. column, abdom. compression, lateral flexion
Trapezius	occipital bone, spines of thoracic vertebrae	clavicle, spine & acromio of scapula	n extends head; adducts, elevates, or depresses scapula
Latissimus dorsi	lower thoracic vert. & lumbar vert.	humerus	extension, adduction med. rotation of humerus
Teres major scapula	inferior angle of	intertubercular groove (humerus)	medially rotates and adducts humerus

<u>Muscle</u>	<u>Origin</u>	Insertion	<u>Action</u>
Rhomboids (Major and minor)	spinous processes upper thoracic vert.	vertebral border of scapula	adducts & rotates scapula
Biceps brachii short head: long head:	coracoid process (scapula) tubercle above glenoid cavity	radial tuberosity	flexion of forearm
Triceps brachii long head: lateral head: medial head:	glenoid cavity humerus (post.) humerus	ulna (olecranon process)	extension of forearm
Gluteus maximus	ilium, sacrum, coccyx	fascia lata (iliotibial tract)	extension of hip (climbing stairs)
Sartorius	ASIS	medial aspect of proximal tibia	flexes leg, laterally rotates thigh
Quadriceps femoris {Rectus femoris, Vastus intermediu Vastus lateralis, Vastus medialis}	s: arises by 4 heads, from ilium and femur s,	tibial tuberosity	leg extension flexes thigh
Biceps femoris	ischial tuberosity, linea aspera (femur)	fibula and tibia	flexes leg, extends & adducts thigh
Gastrocnemius	condyles of femur	calcaneus via calcaneal tendon	plantar flexion

# Lab 3 : Digestive System:

Parotid gland	Greater Omentum
Submandibular gland	Lesser Omentum
Vestibule	Stomach
Tongue	Fundus
Filiform papillae	Body
Lingual frenulum	Pylorus Locate on
-	Greater curvature / models/charts
Hard palate	Lesser Curvature
Soft palate	Pyloric Sphincter
Oropharynx	Rugae
Nasopharynx	Small Intestines:
Epiglottis	Duodenum
Glottis	Jejunum
Trachea	lleum
Larynx	Pancreas
Esophagus	Mesenteries
Diaphragm	Colon:
Parietal peritoneum	Cecum
Visceral peritoneum	Appendix
Liver	Ascending Locate on
Falciform ligament	Transverse (models/charts
Gall bladder	Descending
	Sigmoid colon
Liver lobes:	2
Caudate	Spleen
Right	Kidney
Left	Urinary Bladder
Quadrate	
	Common hepatic duct
	Cystic duct Locate on
	Common bile duct models/charts
	Pancreatic duct

# Digestive System

	The <b>soft palate</b> separatesfrom
2.	During deglutition, the <b>soft palate</b> moves(directional term)
	to prevent food from entering
3.	The hard palate is a horizontal plate made up of
	andbones.
4.	Important functions of the <b>lips</b> includeand
5.	The(number) permanent <b>teeth</b> include the upper teeth located in the
	and the lower teeth located in the
6.	The main functions of the <b>tongue</b> include,,
	and
7.	Pharynx meansin Latin and has 3 subdivisions:
	,, and
8.	Name the 3 pairs of <b>salivary glands</b> and the % of saliva that they produce: a b c
9.	Three functions of <b>saliva</b> include: a. b. c. d.
10. 11.	The <b>teeth</b> that are important in biting and cutting are The <b>teeth</b> that are the longest and are important in grasping and holding are the
12.	The 3 parts of the <b>esophagus</b> are,, and
13.	The esophagus conveys from theto the
14.	Another name for reflux esophagitis is
15.	The "hole" in the diaphragm for the passage of the esophagus is the
16.	<ul> <li>Name the four main functions of the digestive system:</li> <li>a.</li> <li>b.</li> <li>c.</li> </ul>

d.

17. The 2 types of digestion areand
18. Digestion begins in the
19. Another name for chewing is
20. Food is prevented from entering the nasal cavity during swallowing by the
21. What muscles push food particles into the pharynx?
22. The structure that prevents food from entering the respiratory system is the
23. Name the structure that connects the pharynx with the stomach:
24. Once it has been swallowed, the food mass is called a
25. The term for the involuntary wavelike contractions that propel the digesting food to the stomach is
26. Rugae are also known as and function in
27. The stomach cells secrete:,, and
28. What effect do these secretions have on the bolus?
29. The bolus mixed with stomach secretions is called
30exits the stomach through theand enters the
31. The main site of nutrient absorption is the
<ul><li>32. Name the 3 parts of the small intestines (proximal to distal):</li><li>a.</li><li>b.</li><li>c.</li></ul>
33. Name the four parts of the stomach from proximal to distal:,
34. The muscular structure that prevents reflux of stomach contents is called the
35. The structures that allow the stomach to expand as it fills are the

36.	What is the function of the major duodenal papilla?
37.	Where is the stomach located? Between which 2 organs?
38.	What is the function of the stomach?
	What 2 processes contribute to this function?
39. 1	What is the function of the pyloric sphincter?
40.	Name the 4 layers of the stomach (outermost to innermost):
a b	
41. ]	Name the layers of the muscularis.:,,
42. 1	How does that compare to the rest of the digestive tract?
43.	List 2 functions of gastric mucus: a. b.
44. E a b c d	
45. ]	Name the structure that separates the 2 anterior lobes of the liver:
	Histologically, the liver is composed of functional units called
	Name 2 basic functions of the liver: a. b.
48. ]	Name the 2 structures that receive <b>bile</b> from the liver: and
40	

49. The structure that carries **pancreatic secretions** to the duodenum is the

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