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Dissection and Identification of Fetal Pig Muscles



Time Allotment: Muscle dissection; 4 hours.



Multimedia Resources: See Appendix D for a list of multimedia offerings.

The Anatomy of the Fetal Pig (CBS, 62 minutes, VHS, DVD)

Fetal Pig (DryLab Plus) (ED, CD-ROM)

The Fetal Pig: A Technological Dissection (ED, CD-ROM)



Solution:

Carboglycerine solution

30 grams fungicide (Benomyl, Sigma)

250 milliliters glycerine

1 liter water

Mix together and store in a closed container.

Dissection Review

Many human muscles are modified from those of the pig (or any quadruped) as a result of the requirements of an upright posture. The following questions refer to these differences.

1. How does the human trapezius muscle differ from the pig's?

2. How does the deltoid differ?

3. How does the extent and orientation of the human sartorius muscle differ from its relative position in the pig?

4. Explain the differences in terms of differences in function.

5. The human rectus abdominis is definitely divided by four transverse tendons (tendinous intersections). These tendons are absent or difficult to identify in the pig. How do these tendons affect the human upright posture?



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