

Lab 5: Skeletal and Muscular Systems

LABORATORY OBJECTIVES

- Identify a male versus a female skeleton
- Identify the bones that make up the human body
- To investigate articulations and synsarial joint movement
- To investigate muscles and bones working together-using dissection of a chicken wing
- muscle fatigue



INTRODUCTION:

Our skeletal and muscular systems work together to support our bodies and allow us to move in the various ways we do. The skeletal system also does other important things for our bodies; it protects our soft body parts, produces blood cells, and stores minerals and fats.

Our muscular system also has other functions; it helps maintain internal body temperature and assists with movement of fluid in our veins and lymphatic vessels - it also protects the organs of the abdominal region, and stabilizes joints.

ACTIVITY 1: Is the skeleton male or female?

MATERIALS

- Sammy the skeleton (Sammy could stand for Samuel or Samantha!)

METHODS

"The pelvis tells the story": Distinct features adapted for childbearing distinguish adult females from males. Other bones and the skull also have features that can indicate sex, though less reliably. In young children, these sex-related features are less obvious and more difficult to interpret. Subtle sex differences are detectable in younger skeletons, but they become more defined following puberty and sexual maturation.¹

The differences:

Female pelvic bones

- Broader sciatic notch
- Rounded articular surface

Male pelvic bones

- Narrower sciatic notch
- Flat articular surface

¹ From Smithsonian Institution: <http://www.speke.org> & <http://www.smithsonian.edu/education/education.cfm>, note on Sexing.pdf

Skeletal And Muscular Systems Lab Manual

Kevin T. Patton



Skeletal And Muscular Systems Lab Manual:

Skeletal and Muscular Systems Deloris Johnson, 1997-12-01 **Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians - E-Book** Thomas P. Colville, Joanna M. Bassert, 2023-01-18 Learn to apply your A P learning in the lab setting with the Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians 4th Edition This practical laboratory resource features a variety of activities such as terminology exercises illustration identification and labelling case presentations and more to help reinforce your understanding of veterinary anatomy and physiology The laboratory manual also features vivid illustrations lists of terms and structures to be identified and step by step dissection guides to walk you through the dissection process Clinically oriented learning exercises introduce you to the language of anatomy and physiology as you identify structures and learn concepts Clear step by step dissection instructions for complex organs such as the heart familiarize you with the dissection process in a very visual easy to understand format Learning objectives the clinical significance of the content and lists of terms and structures to be identified appear at the beginning of each chapter Review activities and study exercises are included in every chapter to reinforce important information High quality full color illustrations provide a solid understanding of the details of anatomic structure

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