

LABORATORY EXERCISE 17

THE JOINTS

MATERIALS NEEDED

textbook
human skull
human skeleton, articulated
models of synovial joints (shoulder, elbow, hip, and
knee)

For Demonstration:

fresh animal joint (knee joint preferred)
radiographs of major joints

SAFETY

- Wear disposable gloves when handling the fresh animal joint.
- Wash your hands before leaving the laboratory.

Joints are junctions between bones. Although they vary considerably in structure, they can be classified according to the type of tissue that binds the bones together. Thus, the three groups of joints can be identified as (1) fibrous joints, (2) cartilaginous joints, and (3) synovial joints.

Movements occurring at freely movable synovial joints are due to the contractions of skeletal muscles. In each case, the type of movement depends on the kind of joint involved and the way in which the muscles are attached to the bones on either side of the joint.

PURPOSE OF THE EXERCISE

To examine examples of the three types of joints, to identify the major features of these joints, and to review the types of movements produced at synovial joints.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. distinguish among fibrous, cartilaginous, and synovial joints;

2. identify examples of each type of joint;
3. identify the major features of each type of joint;
4. locate and identify examples of each of the six types of synovial joints;
5. identify the types of movements that occur at synovial joints;
6. describe the structure of the shoulder, elbow, hip, and knee joints.

PROCEDURE A—TYPES OF JOINTS

1. Review a textbook section on *classification of joints*.
2. Examine the human skull and articulated skeleton to locate examples of the following types of joints:

Fibrous joints

syndesmosis
suture
gomphosis

cartilaginous joints

synchondrosis
symphysis

synovial joints

3. Complete Part A of Laboratory Report 17.
4. Locate examples of the following types of synovial joints in the skeleton. At the same time, examine the corresponding joints in the models and in your own skeleton. Experiment with each joint to experience its range of movements.

ball-and-socket joint
condyloid joint
gliding joint
hinge joint
pivot joint
saddle joint

5. Complete Parts B and C of the laboratory report.

Laboratory Report Joints Answer

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Laboratory Report Joints Answer:

Joint Pain Decoded: Facts, Myths, and Answers to Your Most Googled Questions Dr. Subhasish Pati ,2026-12-24 Joint Pain Decoded Facts Myths and Answers to Your Most Googled Questions **Hearings, Reports and Prints of the Joint Committee on Atomic Energy** United States. Congress. Joint Committee on Atomic Energy,1975 **Introduction to Splinting** Brenda M. Coppard,Helene Lohman,2008-01-01 Helps readers master the basic theory principles and techniques of splinting needed for clinical practice Using a combination textbook workbook format it integrates theory and technical knowledge with hands on learning features that equip readers with essential clinical knowledge critical thinking skills and problem solving skills associated with splinting The content has been updated to include new research and techniques current trends and new information sources A companion CD contains video clips demonstrating how to fabricate specific splints *Report of the Joint Committee of the Michigan Legislature of 1877, on an Alleged Defalcation, and Matters Connected Therewith, in the Laboratory Department of the University of Michigan* Michigan. Legislature. Joint Committee on the University of Michigan,1877 *Introduction to Orthotics - E-Book* Brenda M. Coppard,Helene Lohman,2014-11-05 NEW Fabrication processes appear in special boxes to allow for quick reference NEW Fabrication processes forms and grading sheets are included on the Evolve companion website allowing you to create a personalized study guide UPDATED content includes new case studies references evidence based research tables and more on the science of orthotic intervention NEW Additional learning exercises show how to apply theory to practice NEW More integration of patient safety addresses this important aspect of patient care **Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly** New South Wales. Parliament,1913 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931 *Report of the Joint Committee of the Legislature to Investigate What Disposition Should be Made as to the Sites at Yorktown, Westchester County* New York (State). Joint Committee to Investigate What Disposition Should be Made as to the Sites at Yorktown, Westchester County,1918 Report of the Joint Committee on Tuberculin Test, 1911 Illinois. General Assembly. Joint Committee on Tuberculin Test,1911 Department of Defense Appropriations for 1998: Secretary of Defense and chairman, Joint Chief of Staff United States. Congress. House. Committee on Appropriations. Subcommittee on National Security,2002 *Sm Lab Exer Anat Physio Cat Di* Gerard J. Tortora,1999-11 *Report of the Proceedings of the ... Meeting of the Joint Convention of American Instructors of the Deaf* Convention of American Instructors of the Deaf,1924 *Laboratory Manual to Accompany Essentials of Anatomy and Physiology* Kevin T. Patton,2004-02 Kevin Patton divides the lab activities typically covered in A P lab into 42 subunits allowing instructors the flexibility to choose the units and sequence that integrates with lecture material Basic content is introduced first and gradually more complex activities are developed Features include procedure check lists coloring exercises boxed hints safety alerts separate lab reports and a full color histology mini reference Scientific and Technical

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