# Muscular and Skeletal Systems

#### Endocrine system

- The skeleton protects the endocrine organs especially in the pelvis, chest, and brain.
- Bone growth, remodeling, and repair occurs in response to hormones.
- Androgens and growth hormone promote muscle strength and increase in mass.

#### Respiratory system

- Skeleton encloses and protects lungs
- Flexible ribcage enables ventilation of the lungs for exchange of gases (O<sub>2</sub>/CO<sub>2</sub>).
- Diaphragm and intercostals produce volume changes in breathing.

#### Cardiovascular system

- Heart and blood vessels transport O<sub>2</sub>, nutrients, and waste products to all the body.
- Bone marrow produces red blood cells
- Bone matrix stores calcium, which is required for contraction of muscle in the heart and blood vessels.

#### Digestive system

- Skeleton provides some protection and support for the abdominal organs.
- Digestive system provides nutrients for growth, repair, and maintenance of muscle and connective tissues.

#### Skeletal system

- Muscular activity maintains bone strength and helps determine bone shape.
- Muscles pull on bones to create movement.



#### Nervous system

- The skeleton protects the CNS.
- Bone acts as a store of calcium ions required for nerve function.
- Innervation of bone and joint capsules provides sensation and positional awareness.
- Muscular activity is dependent on innervation.

#### Lymphatic system and immunity

 Stem cells in the bone marrow give rise to the lymphocytes involved in the immune response.

#### Uninery system

- The skeleton protects the pelvic organs.
- Final activation of vitamin D, which is involved in calcium and phosphorus metabolism, occurs in the sidneys.
- Urination controlled by a voluntary sphincter in the urethra.

#### Reproductive system

- The skeleton protects the reproductive organs.
- Reproductive (sex) hormones influence skeletal development.

#### Muscular system

- Skeleton acts as a system of levers for muscular activity.
- Bone provides a store of calcium for muscle contraction.

#### Integumentary system

- Skin absorbs and produces precursor of vitamin D, which is involved in calcium and phosphorus metabolism.
- Skin covers and protects the muscle tissue.

#### General functions and effects on all systems

The skeletal system provides bony protection for the internal organs, especially the brain and spinal cord, and the lungs, heart, and pelvic organs. The muscular system acts with the skeletal system to generate voluntary movements. Smooth and cardiac muscle provide motility for involuntary activity.



# **Anatomy And Physiology Skeletal Tissues Packet**

John Hill Honeybourne, Michael Hill, Helen Moors

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Bone Tissue Engineering Fernando P.S.

Guastaldi, Bhushan Mahadik, 2022-03-07 This book provides a comprehensive overview of the state of the art research as well as current challenges and strategies to reconstruct large bone defects employing 3D printing technology Various topics covered include different 3D printing technologies that can be applied for bioengineering bone the aspects of basic bone biology critical for clinical translation tissue engineering platforms to investigate the bone niche microenvironment the pathway to clinical translation and regulatory hurdles Bone Tissue Engineering State of the Art in 3D Printing is an ideal book for students and researchers interested in learning more about the latest advances in employing different 3D printing technologies for bone tissue engineering **Anatomy and Physiology for Health Professionals** Jahangir Moini, 2019-01-03 Written with health professions students in mind the Third Edition of Anatomy and Physiology for Health Professionals offers an engaging approachable and comprehensive overview of human anatomy and physiology The Third Edition features a total of six multifaceted Units which build upon an understanding of basic knowledge take readers through intermediate subjects and finally delve into complex topics that stimulate critical thinking Heavily revised with updated content throughout chapters include useful features such as Common Abbreviations Medical Terminology the Metric System and more Students will want to take advantage of the many resources available to reinforce learning including Test Your Understanding questions that regularly assess comprehension flash cards for self study an interactive eBook with more than 20 animations and interactive and printable Lab Exercises and Case Studies

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