



ANATOMY

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INTRODUCTION

- Anatomy – The Study of Human Body Structure
- Definition: Anatomy is the branch of science that deals with the study of the structure and organization of living organisms.
- Importance: Understanding anatomy is crucial for medical professionals, researchers, and anyone interested in human health.



Types of Anatomy

- Gross Anatomy: Study of large structures visible to the naked eye
- Examples: organs, bones, muscles
- Microscopic Anatomy (Histology): Study of tiny structures visible only under a microscope
- Examples: cells, tissues, microscopic structures



Gross Anatomy

- Definition: Study of large structures visible to the naked eye.
- Branches:
 - Systemic Anatomy: Study of specific systems (e.g., skeletal, muscular, nervous)
 - Regional Anatomy: Study of specific regions (e.g., head, neck, thorax, abdomen)
 - Surface Anatomy: Study of external features (e.g., landmarks, palpable structures)



Histology

- Definition: Study of tiny structures visible only under a microscope
- Types of tissues:
 - Epithelial tissue: Forms lining of organs and glands
 - Connective tissue: Supports and connects other tissues (e.g., bone, cartilage, fat)
 - Muscle tissue: Responsible for movement (e.g., skeletal, smooth, cardiac)
 - Nervous tissue: Transmits signals (e.g., neurons, glial cells)



Anatomical Terminologies

- Directional terms:
 - Superior: Above (e.g., head is superior to shoulders)
 - Inferior: Below (e.g., feet are inferior to knees)
 - Anterior: Front (e.g., abdomen is anterior to spine)
 - Posterior: Back (e.g., spine is posterior to abdomen)
- Planes:
 - Sagittal plane: Divides body into left and right
 - Frontal plane: Divides body into front and back
 - Transverse plane: Divides body into top and bottom



Anatomical Planes and Axes

- Axes:
- Sagittal axis: Runs from front to back
- Frontal axis: Runs from side to side
- Vertical axis: Runs from top to bottom



Conclusion

- Anatomy is a fundamental field of study in medicine and healthcare
- Understanding anatomy is essential for:
 - Diagnosis and treatment of diseases
 - Surgical procedures
 - Medical research and development



Any Question



Thank You 😊