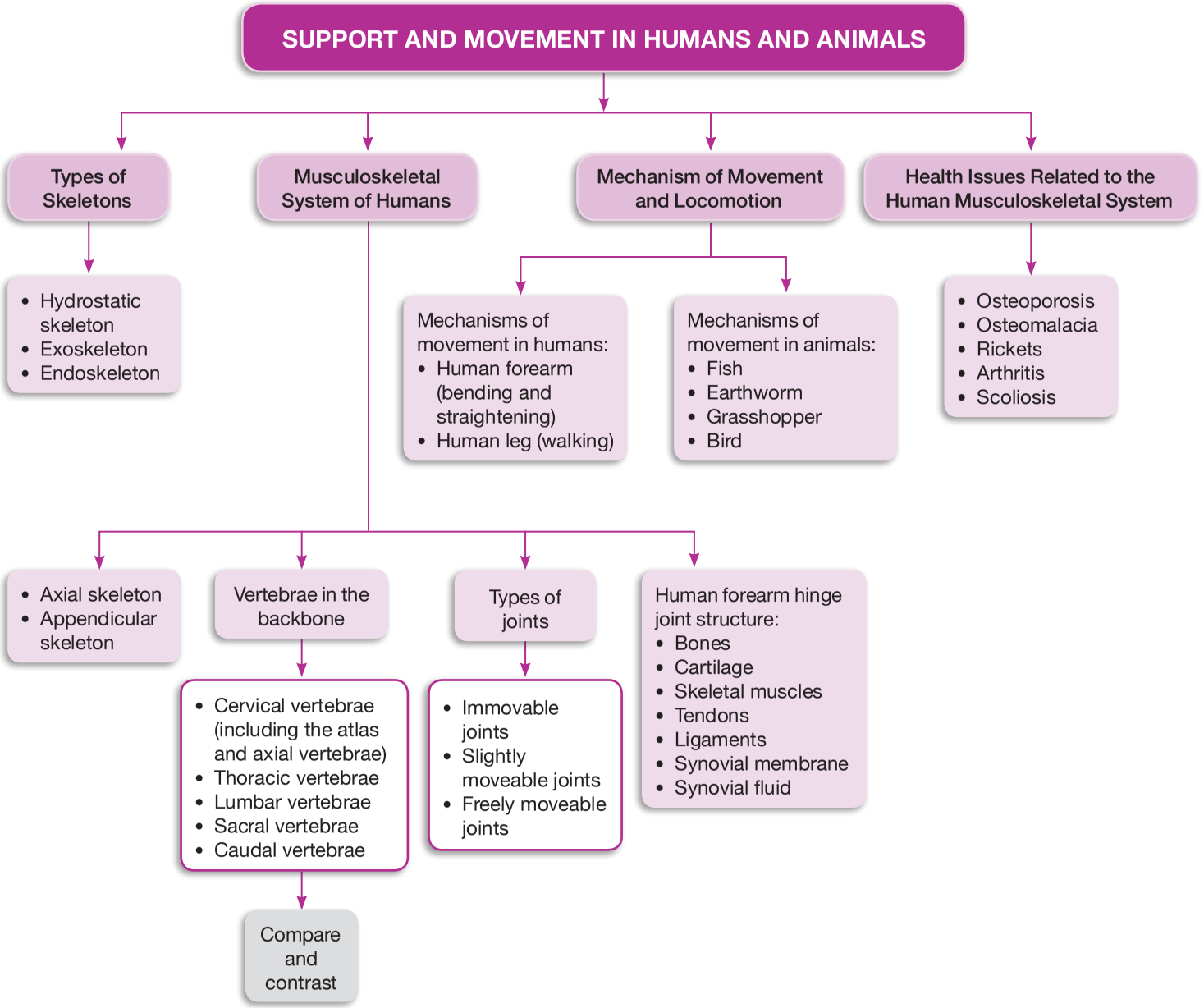
SUPPORT AND MOVEMENT IN HUMANS AND ANIMALS
Types of Skeletons
Musculoskeletal System of Humans
Mechanism of Movement and Locomotion
Health Issues Related to the Human Musculoskeletal System
• Hydrostatic skeleton
• Exoskeleton
• Endoskeleton
Mechanisms of movement in humans:
• Human forearm (bending and straightening)
• Human leg (walking)
Mechanisms of movement in animals:
• Fish
• Earthworm
• Grasshopper
• Bird
• Osteoporosis
• Osteomalacia
• Rickets
• Arthritis
• Scoliosis
• Axial skeleton
• Appendicular skeleton
Vertebrae in the backbone
Types of joints
Human forearm hinge joint structure:
• Bones
• Cartilage
• Skeletal muscles
• Tendons
• Ligaments
• Synovial membrane
• Synovial fluid
• Cervical vertebrae (including the atlas and axial vertebrae)
• Thoracic vertebrae
• Lumbar vertebrae
• Sacral vertebrae
• Caudal vertebrae
• Immovable joints
• Slightly moveable joints
• Freely moveable joints
Compare and contrast