

1. Introduction

Overview of the book

Cell

Levels of organization in the body

Physiology of the blood and body fluids

Descriptive anatomical terms

2. Head and neck

Overview of the head and neck

Skull

Cellular physiology of the nervous system

The process of nervous transmission

Orbit

Nose

Face

Parotid region

Temporal and infratemporal fossa

Ear and vestibular apparatus

Oral cavity

Neck

Midline structures of the neck

3. Thorax

Overview of the thorax

Surface anatomy of the thorax

Thoracic wall

Thoracic cavity

Pleurae and lungs

Cardiac cycle

Structure and function of the blood vessels

Lymph and the lymphatic system

Control of the cardiovascular system

Cardiovascular receptors and central control

Regulation of circulation in individual tissues

Computed tomography scanning of the thorax and
angiography of the great vessels

Electrocardiography

Ventilation and gaseous exchange

Surface tension and surfactant

Gaseous exchange in the lungs

Lung perfusion

Gas transport in the blood

Control of respiratory function

4. Abdomen

- Overview of the gastrointestinal system
- Arterial supply of the gut
- Venous drainage of the gut
- Nerve supply of the gut
- Lymphatic drainage of the gut
- Anterior abdominal wall
- Posterior abdominal wall
- Peritoneum
- Upper gastrointestinal system
- Stomach
- Liver, gallbladder and biliary tract
- Pancreas
- Small intestine
- Large intestine
- Spleen
- Kidneys and ureters
- Renal tubules, loop of henle and collecting ducts
- Loop of henle
- Renal functions and homoeostasis
- Organization of the suprarenal glands

5. Pelvis

- Overview of the pelvis
- Structure of the pelvis
- Functions of the reproductive system
- Pelvic wall and bony pelvis
- Pelvic contents
- Perineum
- Lymphatic drainage of the pelvis and perineum
- Transgender anatomy

6. Musculoskeletal system

- Overview of the musculoskeletal system
- Physiology of skeletal muscle
- Skeletal muscle contraction
- Muscle function and motor control
- Bone
- Upper limb
- Surface anatomy of the upper limb
- Bones and joints of the upper limb
- Muscles of the upper limb
- Nerve supply to the upper limb
- Arterial supply to the upper limb

Venous drainage of the upper limb
Lymphatic drainage of the upper limb
Special regions of the upper limb
Regions and components of the lower limb
Surface anatomy of the lower limb
Bones and joints of the lower limb
Muscles and tendons of the lower limb
Nerve supply to the lower limb
Arterial supply to the lower limb
Venous drainage of the leg
Lymphatic drainage of the lower limb
Special regions of the lower limb
Vertebral column
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