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□□□ Cell organisation and organelles

Membranes and transport

□□□ DNA replication and repair

□□□ Gene expression – transcription and translation

□□□ Regulation of gene expression

□□□ Cell signalling

☐☐☐ Cell cycle, cell death and cancer biology

2.1 Proteins and protein structure

2.2 Enzymes and enzyme kinetics

2.3 Bioenergetics and glycolysis

2.4 TCA cycle and oxidative phosphorylation

2.5 Glycogen and gluconeogenesis

☐☐☐ Lipid metabolism

□□□ Nitrogen metabolism and the urea cycle

□□□ Integration of metabolism: fed, fasting and diabetes

□□□ Anatomical language, planes and imaging

☐☐☐ Upper limb

☐☐☐ Lower limb

□□□ Thorax

☐ ☐ ☐ Abdomen

☐☐☐ Pelvis and perineum

□□□ Head and neck

☐ ☐ ☐ Back and vertebral column

□□□ Microscopy and tissue preparation

□□□ Epithelium and connective tissue

☐☐☐ Muscle and nervous tissue

4.4 Organ histology: circulatory, respiratory and digestive

☐☐☐ Organ histology: circulatory, respiratory and digestive

4.5 Organ histology: urinary, endocrine, reproductive and skin

☐☐☐ Organ histology: urinary, endocrine, reproductive and skin

4.6 Early development: fertilisation to gastrulation

☐☐☐ Early development: fertilisation to gastrulation

4.7 Organogenesis and congenital anomalies

☐☐☐ Organogenesis and congenital anomalies

5. Human Physiology

5.1 Homeostasis and body fluids

☐☐☐ Homeostasis and body fluids

5.2 Excitable cells and muscle

☐☐☐ Excitable cells and muscle

5.3 Cardiovascular physiology

☐☐☐ Cardiovascular physiology

5.4 Respiratory physiology

☐☐☐ Respiratory physiology

5.5 Renal physiology and acid–base

☐☐☐ Renal physiology and acid–base

5.6 Gastrointestinal physiology

☐☐☐ Gastrointestinal physiology

5.7 Endocrine and reproductive physiology

☐☐☐ Endocrine and reproductive physiology

6. Medical Genetics

6.1 Chromosomes and karyotypes

☐☐☐ Chromosomes and karyotypes

6.2 Mendelian inheritance and pedigrees

☐☐☐ Mendelian inheritance and pedigrees

6.3 Non-Mendelian inheritance

☐☐☐ Non-Mendelian inheritance

6.4 Mutation and variant interpretation

☐☐☐ Mutation and variant interpretation

6.5 Population genetics

☐☐☐ Population genetics

6.6 Genetic testing and counselling

☐☐☐ Genetic testing and counselling

6.7 Multifactorial disease and pharmacogenomics

☐☐☐ Multifactorial disease and pharmacogenomics

7. Medical Immunology

7.1 Innate immunity

☐☐☐ Innate immunity

7.2 Antigen recognition: antibodies, receptors and MHC (MHC)

☐☐☐ Antigen recognition: antibodies, receptors and MHC

7.3 Adaptive responses: T and B cells T B

☐☐☐ Adaptive responses: T and B cells

7.4 Immunological memory and vaccination

☐☐☐ Immunological memory and vaccination

7.5 Hypersensitivity

☐☐☐ Hypersensitivity

7.6 Autoimmunity and tolerance

☐☐☐ Autoimmunity and tolerance

7.7 Immunodeficiency and transplantation

☐☐☐ Immunodeficiency and transplantation

8. Medical Microbiology and Infection

8.1 Classification and the diagnostic laboratory

☐☐☐ Classification and the diagnostic laboratory

8.2 Bacteria: structure, growth and pathogenesis

☐☐☐ Bacteria: structure, growth and pathogenesis

8.3 Viruses

☐☐☐ Viruses

8.4 Fungi and parasites

☐☐☐ Fungi and parasites

8.5 Host–pathogen interaction and transmission

☐☐☐ Host–pathogen interaction and transmission

8.6 Antimicrobials and resistance

☐☐☐ Antimicrobials and resistance

8.7 Infection prevention and control

☐☐☐ Infection prevention and control

9. Neuroscience

9.1 Neurons, synapses and neurotransmitters

☐☐☐ Neurons, synapses and neurotransmitters

9.2 Somatosensory and pain pathways

☐☐☐ Somatosensory and pain pathways

9.3 Motor systems

☐☐☐ Motor systems

9.4 Special senses

☐☐☐ Special senses

9.5 Autonomic nervous system

☐☐☐ Autonomic nervous system

9.6 Higher functions: sleep, memory and language

☐☐☐ Higher functions: sleep, memory and language

9.7 Lesion localisation

☐☐☐ Lesion localisation

10. Pathology

10.1 Cell injury, adaptation and death

☐☐☐ Cell injury, adaptation and death

10.2 Inflammation and repair

☐☐☐ Inflammation and repair

10.3 Haemodynamic disorders

☐☐☐ Haemodynamic disorders

10.4 Neoplasia

☐☐☐ Neoplasia

10.5 Cardiovascular and respiratory pathology

☐☐☐ Cardiovascular and respiratory pathology

10.6 Gastrointestinal, liver and renal pathology

☐☐☐ Gastrointestinal, liver and renal pathology

10.7 Laboratory medicine and the pathology report

☐☐☐ Laboratory medicine and the pathology report

11. Pharmacology

11.1 Pharmacokinetics

☐☐☐ Pharmacokinetics

11.2 Pharmacodynamics

☐☐☐ Pharmacodynamics

11.3 Autonomic pharmacology

☐☐☐ Autonomic pharmacology

11.4 Cardiovascular and renal drugs

☐☐☐ Cardiovascular and renal drugs

11.5 Antimicrobial and anticancer drugs

☐☐☐ Antimicrobial and anticancer drugs

11.6 CNS drugs and analgesia

☐☐☐ CNS drugs and analgesia

11.7 Adverse reactions, interactions and safe-medication principles

☐☐☐ Adverse reactions, interactions and safe-medication principles

12. Epidemiology, Biostatistics and Evidence-Based Medicine

12.1 Measuring disease: incidence and prevalence

☐☐☐ Measuring disease: incidence and prevalence

12.2 Study designs

☐☐☐ Study designs

12.3 Bias, confounding and causation

☐☐☐ Bias, confounding and causation

12.4 Diagnostic tests

☐☐☐ Diagnostic tests

12.5 Statistical inference for clinical data

☐☐☐ Statistical inference for clinical data

12.6 Clinical trials and systematic reviews

☐☐☐ Clinical trials and systematic reviews

12.7 Critical appraisal and applying evidence

☐☐☐ Critical appraisal and applying evidence

13. Clinical Foundations – – Communication, Reasoning and Ethics

13.1 The consultation and history-taking

☐☐☐ The consultation and history-taking

13.2 Principles of physical examination

☐☐☐ Principles of physical examination

13.3 Clinical reasoning and differential diagnosis

☐☐☐ Clinical reasoning and differential diagnosis

13.4 Communicating with patients

☐☐☐ Communicating with patients

13.5 Medical ethics: autonomy, consent and confidentiality

☐☐☐ Medical ethics: autonomy, consent and confidentiality

13.6 Patient safety and quality

☐☐☐ Patient safety and quality

13.7 Public health and health systems

☐☐☐ Public health and health systems