

1. Record Nr.	UNINA9910460527503321
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Titolo	Anatomy and physiology for nurses at a glance / / Ian Peate, Professor of Nursing, Head of School, School of Health Studies, Gibraltar ; Muralitharan Nair, Independent Nursing Consultant, England
Pubbl/distr/stampa	Chichester, West Sussex, [England] : , : Wiley Blackwell, , 2015 ©2015
ISBN	1-118-74627-9
Descrizione fisica	1 online resource (168 p.)
Collana	At a Glance
Disciplina	612
Soggetti	Human physiology Human anatomy Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Title Page; Copyright Page; Contents; Preface; Abbreviations; Acknowledgements; How to use your revision guide; About the companion website; Part 1 Foundations; Chapter 1 The genome; Genetics; The double helix of DNA; RNA; Nucleotides; Bases; Chromosomes; Protein synthesis; Gene transference; Chapter 2 Homeostatic mechanisms; Homeostasis; Feedback mechanisms; Negative feedback; Positive feedback; Chapter 3 Fluid compartments; Total body water; Fluid regulation; Chapter 4 Cells and organelles; Cells; Cell membrane; Mitochondria; Endoplasmic reticulum; Nucleus; Cytoplasm; Lipid bilayer Membrane proteins Functions of the plasma membrane; Chapter 5 Transport systems; Osmosis; Diffusion; Facilitated diffusion; Active transport; Endocytosis and exocytosis; Chapter 6 Blood; Blood; Formation of blood cells; RBC; WBC; Platelets; Blood plasma; Chapter 7 Inflammation and immunity; Immune system; Types of immunity; Chapter 8 Tissues; Tissues; Epithelial tissue; Nervous tissue; Connective tissue; Muscle tissue; Part 2 The nervous system; Chapter 9 The brain and nerves; Brain; Neuron; Cranial nerves; Chapter 10 Structures of the brain; Structures of the brain; Cerebrum; Diencephalon

Brain stem; Cerebellum; Limbic system; Ventricles of the brain; Cerebrospinal fluid; Chapter 11 The spinal cord; Spinal cord; Spinal cord sections; Functions of the spinal cord; Reflex actions; Spinal nerves; Chapter 12 The blood supply; Circle of Willis; Function of the circle of Willis; Blood-brain barrier (BBB); Function of BBB; Chapter 13 The autonomic nervous system; ANS; Sympathetic nervous system; Parasympathetic nervous system; Autonomic control by the CNS; Autonomic reflexes; Chapter 14 Peripheral nervous system; PNS; Peripheral nervous system connections; Sensory division; Motor division; Part 3 The heart and vascular system; Chapter 15 The heart; Heart; Walls of the heart; Chambers of the heart; Valves of the heart; Blood vessels of the heart; Chapter 16 Blood flow through the heart; Blood flow; Pulmonary circulation; Systemic circulation; Coronary circulation; Coronary arteries; Coronary veins; Chapter 17 The conducting system; Cardiac conduction; SA node; AV node; Bundle of His; Left and right bundle branches; Purkinje fibres; Cardiac cycle; Chapter 18 Nerve supply to the heart; Autonomic nervous system; Chemical regulation of the heart; Baroreceptors; Other factors in heart regulation; Chapter 19 Structure of the blood vessels; Blood vessels; Structure; Arteries; Veins; Capillaries; Chapter 20 Blood pressure; What is blood pressure?; Physiological factors; Control of blood pressure; Taking blood pressure; Chapter 21 Lymphatic circulation; Lymphatic system; What is lymph?; Lymph nodes; Lymphatic organs; Functions of the lymphatic system; Part 4 The respiratory system; Chapter 22 The respiratory tract; Respiratory system; Upper respiratory tract; Lower respiratory tract; Blood supply; Chapter 23 Pulmonary ventilation; Breathing; Inspiration; Exhalation

## Sommario/riassunto

Anatomy and Physiology for Nurses at a Glance is the perfect companion for study and revision for pre-registration nursing and healthcare students, from the publishers of the market-leading at a Glance series. Combining superb illustrations with accessible and informative text, this book covers all the body systems and key concepts encountered from the start of the pre-registration nursing or healthcare programme, and is ideal for anyone looking for an overview of the human body. Providing a concise, visual overview of anatomy and physiology and the related biological sciences, this book will help