Record Nr. UNINA9910460762603321 Autore Ward Jeremy P. T. Titolo The respiratory system at a glance // Jeremy P.T. Ward, Jane Ward, Richard M. Leach Pubbl/distr/stampa Chichester, West Sussex, [England]:,: John Wiley & Sons,, 2015 ©2015 **ISBN** 1-118-76106-5 Edizione [Fourth edition.] Descrizione fisica 1 online resource (120 p.) Collana At a Glance Disciplina 616.2 Soggetti Respiratory organs - Diseases Respiratory Tract Diseases Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. The Respiratory System at a Glance; Contents; Preface to fourth edition; Nota di contenuto Units and symbols; List of abbreviations; About the companion website; Part 1 Structure and function; 1 Structure of the respiratory system: lungs, airways and dead space; Lungs; Airways; Dead space; 2 The thoracic cage and respiratory muscles; Thoracic cage; The sternum; The ribs and intercostal space; The diaphragm; Muscles of respiration; 3 Pressures and volumes during normal breathing; Functional residual capacity; Intrapleural pressure; Pressures, flow and volume during a normal breathing cycle; Lung volumes 4 Gas lawsFractional concentration and partial pressure of gases in a gas mixture; Water vapour pressure; The effect of pressure and temperature on gas volumes; Gases dissolved in liquids; Note on timederivative symbols; 5 Diffusion; The alveolar-capillary membrane; Diffusion and perfusion limitation; Factors affecting diffusion across a membrane (Fick's and Graham's laws); Factors affecting DLco (TLco); 6 Lung mechanics: elastic forces; Assessing the stiffness of the lungs: lung compliance; Dynamic pressure-volume loops and dynamic compliance: The air-fluid interface lining the alveoli

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