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The Lungs and the Pulmonary
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~~System Respiratory System~~

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How do lungs work? - Emma
Bryce

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Respiratory and Circulatory
Systems Working Together
Cardiovascular System
Anatomy | Hemodynamics (Part
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1) *Circulatory System /
Pulmonary Circulation*

ATP \u0026amp; Respiration:

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Pathophysiology, Diagnostics

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``The circulatory system and respiratory system work together to supply cells with the nutrients and oxygen they need to stay alive.
`` 4.

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respiratory, circulatory,
and excretory systems.
respiratory system. nasal
cavity. pharynx. Esophagus.

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A system of organs,
functioning in the process
of gas exchange... hollow
space behind the

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Key ...~~

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Circulatory And

37-1 The Circulatory System

3. The circulatory system and respiratory system work together to supply cells with the nutrients and oxygen they need to stay alive. 4. Functions of the Circulatory System Humans

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and other vertebrates have closed circulatory systems. In a closed circulatory system, blood is transported within a system of vessels.

5.

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~~Respiratory Systems~~

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respiratory, circulatory,
and excretory systems.

respiratory system. nasal
cavity. pharynx. Esophagus.

A system of organs,
functioning in the process

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of gas exchange... hollow
space behind the nose.
throat; passageway for food
to the esophagus and air to
the la...

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Systems (continued) Section
37-2 Blood and the Lymphatic
System (pages 951-955) This

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section describes the functions of the different components of blood. It also outlines the role of the lymphatic system. Blood Plasma (page 951) 1.

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(continued) 14. Why is the blood that enters the heart from the systemic circulation oxygen-poor? The cells of the body have

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absorbed much of the oxygen
the blood once contained and
loaded the blood with carbon
dioxide.

~~Chapter 37 Circulatory And
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Key~~

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Chapter 37 Circulatory
System Answers CIRCULATORY
SYSTEM. All organisms move
substances internally from
one place to another. Some
organisms rely on .
diffusion. for this
movement; humans cannot

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because we are too large &
complex. We require a
circulatory system. Chapter
37 Circulatory And
Respiratory Systems Section
... Page 9/18

~~Chapter 37 Circulatory~~

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Respiratory the respiratory
brings oxygen into the body,
and expels carbon dioxide
from the body; the
circulatory system

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transports these gases
throughout the body Click
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Systems Section 3

This presentation describes

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various aspects of the
regulation of tissue
oxygenation, including the
roles of the circulatory
system, respiratory system,
and blood, the carrier of
oxygen within these
components of the

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cardiorespiratory system.

The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood flowing through the pulmonary capillaries. The

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cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and

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moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP), the energy currency of all

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cells. The mitochondria are able to produce ATP until the oxygen tension or P_{O_2} on the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to

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maintain a continuous supply of oxygen to the mitochondria at or above the critical P_{O_2} . In order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be

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capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of

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the cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

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This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings

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on mechanisms in assessing
the biological plausibility
of associations observed in
epidemiologic studies.

Mechanisms of disease are
important because they may
provide plausibility, which
is one of the guideline

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Criteria for assessing
evidence on causation. This
report specifically reviews
the evidence on the
potential mechanisms by
which smoking causes
diseases and considers
whether a mechanism is

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likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible,

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and to assessing the
potential risks of tobacco
products.

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notes that enhance
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students' learning. Student
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as a point of focus in class discussion to strengthen students' critical thinking skills. UNIQUE! Rules of Thumb highlight rules, formulas, and key points that are important to clinical practice. Bulleted

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Learning objectives aligned with summary checklists to highlight key content at the beginning and at the end of each chapter, paralleling the three areas tested on the 2015 NBRC Therapist Multiple-Choice Examination:

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recall, analysis, and
application.

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tradition as the world's

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clinical students. The detailed but lucid text is complemented by didactic illustrations that summarize key concepts in physiology and pathophysiology.

Emphasizes core information around how the body must

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maintain homeostasis in order to remain healthy, while supporting information and examples are detailed. Summary figures and tables help quickly convey key processes covered in the text. Reflects the latest

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available, their husbandry
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leads to sections on gross

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anatomy, endocrinology and reproduction, followed by more detailed sections on neuroanatomy, vasculature, cell biology and histology of particular organs and structures, and a section on molecular biology. High

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control of food intake,
molting, stress, the avian
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migration, behavior and
control of body temperature
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chapters on the
cardiovascular system,
pancreatic hormones,
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pituitary gland, thyroid,
adrenal gland, muscle,
gastro-intestinal
physiology, incubation,

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consideration of both blood and avian metabolism on the companion website (<http://booksite.elsevier.com/9780124071605>). Tables feature hematological and serum biochemical parameters together with circulating

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concentrations of glucose in
more than 200 different
species of wild birds

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grounding in this
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Multiple new aspects of respiratory management of the newborn. For example, ventilator management of infants with unusually severe bronchopulmonary dysplasia and infants with omphalocele is discussed, as

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well as positioning of endotracheal tube in extremely low birth weight infants, noninvasive respiratory support, utilization of a protocol-driven respiratory management, and more. This

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book includes a chapter on noninvasive respiratory function monitoring during chest compression, analyzing the efficacy and quality of chest compression and exhaled carbon dioxide. It also provides an overview on

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new trends in the management of fetal and transitioning lungs in infants delivered prematurely. Lastly, the book includes a chapter on neonatal encephalopathy treated with hypothermia along with mechanical

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ventilation. The interaction of cooling with respiration and the strategies to optimize oxygenation and ventilation in asphyxiated newborns are discussed.

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