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***and tables condense material for easier retention and review. Shares the knowledge and experience of renowned anesthesia expert Dr. Manuel C. Pardo, Jr. and a team of more than 80 global***

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***Guyton and Hall Textbook of  
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***1. Genetics, Epigenetics and  
Genomics: An Overview 2.  
Mendel's Laws of Inheritance 3.  
Lethality and Interaction of***

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**Genes 4. Genetics of  
Quantitative Traits (QTs): 1.  
Mendelian Approach (Multiple  
Factor Hypothesis)5. Genetics  
of Quantitative Traits:2.  
Biometrical Approach6.  
Genetics of Quantitative**



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***Traits: 3. Molecular Markers  
and QTL Analysis7. Genetics  
of Quantitative Traits:4.  
Linkage Disequilibrium (LD)  
and Association Mapping8.  
Multiple Alleles and  
Isoalleles9. Physical Basis of***

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***Heredity1. The Chromosome  
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Physical Basis of Heredity2.  
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***Sturkie's Avian Physiology  
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Management of Common  
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monitoring. Therapist Driven Protocols (TDPs) used by RTs in hospitals to assess patients, initiate care, and evaluate outcomes, are incorporated throughout the text to demonstrate the value of

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following an established protocol. Learning Objectives highlight key content at the beginning and at the end of each chapter in a bulleted section and parallel the three areas tested on the NBRC

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and focuses on the content most relevant to clinical and pre-clinical students. The detailed but lucid text is complemented by didactic illustrations that summarize key concepts in physiology and

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pathophysiology. Emphasizes core information around how the body must maintain homeostasis in order to remain healthy, while supporting information and examples are detailed. Summary figures and

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**showing students how  
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website at [www.ataglanceser  
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interactive multiple choice  
questions and digital  
flashcards**

**Living Nature, not dull Art**

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**Shall plan my ways and rule  
my heart -Cardinal Newman  
Nature and Art 1868 One of  
the ineluctable  
consequences of growth in  
any field of science is that  
subjects of inquiry once**

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**established tend to give birth to subsubjects and that the subsubjects once established will in time undergo further mitotic division. Not so many years ago, problems surrounding**

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**the ietus and newly born infant lay in a realm almost to be described as a "no-man's land." Obstetricians properly gave major consideration to understanding and learning**

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**about processes and disorders concerned with maternal health and safety. The welfare of the infant was regarded as of secondary importance. Pediatricians on their part hesitated to**

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**invade the nursery, a sanctum regarded as belonging to the domain of the accoucheur. And the pathologist, enveloped in the mysteries of life and death in the adult, found scant tim~**

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**for the neonate and the  
placenta.**

**Yoost and Crawford's  
Fundamentals of Nursing is  
back for a second-edition  
encore! The text that made  
its name by focusing on**



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**simple language and active learning continues its focus on helping you truly understand, apply, and retain important nursing information and concepts. Using a warm and**

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**conversational style, this  
new second edition guides  
you towards a basic  
understanding of the  
nursing profession and then  
logically progresses through  
the nursing process and into**

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**the safe and systematic  
methods of applying care.  
Each chapter features  
realistic and complex case  
studies and critical thinking  
exercises woven throughout  
the content to help you**

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**continually apply what you've learned to actual patient care. A conceptual care mapping approach — created by Yoost and Crawford themselves — further your ability to make**

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**clinical judgments and synthesize knowledge as you develop plans of care after analyzing and clustering related patient assessment data. All of this paired with a wealth of student-friendly**

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different – and effective –  
way for you to easily master  
the fundamentals of nursing.  
UNIQUE! Warm, friendly**

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**writing style slows down the  
pace of information to give  
readers time to critically  
think and master all  
fundamental concepts and  
skills. UNIQUE! Building  
block approach groups**

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**topics and concepts together thematically, in the order needed for readers to build their knowledge. UNIQUE! Objective-driven approach presents clearly defined, numbered objectives that**



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**coordinate with all content  
and then wrap up with  
Objective Summaries.  
UNIQUE! Active learning  
activities are incorporated  
throughout every chapter to  
help readers learn to apply**

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**chapter content to broader nursing concepts and realistic patient scenarios. UNIQUE! Conceptual care mapping is taught and used throughout the text in conjunction with the**

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**Conceptual Care Map  
Creator. UNIQUE! Emphasis  
on QSEN reinforces the  
Quality and Safety Education  
for Nurses competencies,  
including: patient-centered  
care, teamwork and**

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**collaboration, evidence-based practice, quality improvement, safety, and informatics. Special feature boxes cover the areas of: diversity consideration, evidence-based practice,**

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**informatics, patient  
education, healthy literacy,  
health assessment  
questions, interprofessional  
collaboration and  
delegation, ethical and legal  
practice, home care**

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**considerations, safe practice alerts, QSEN, critical thinking exercises, and nursing care guidelines. NEW! Interprofessional collaboration and delegation content appears throughout**

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**the text along with new IPE activities that are integrated into the Evolve resources. NEW & UNIQUE! Review and exam questions tied to learning objectives use a building-block style**

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**approach that starts at lower Bloom's taxonomy levels in early chapters and builds to more complex levels as readers acquire more knowledge. NEW! Emphasis on assignment and**



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**delegation covers the differences between them and how and when they're appropriate for an RN. NEW! Content on complementary therapies has been integrated throughout the**

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**text to reflect the changes to  
the NCLEX exam. NEW!**

**Additional information has  
been added in the areas of  
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Patient Education, Drugs of  
Abuse, Zika, Ebola, and**

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**more.**

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Life  
Pocket Book of Hospital  
Care for Children**

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## **Genetics Classical To Modern**

### **Respiration and Circulation**

*John E. Hall's Pocket Companion  
to Guyton and Hall Textbook of  
Medical Physiology, 12th Edition  
offers at-a-glance reference to the*

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many children from immigrant  
and refugee families are not doing  
well in school, due in part to  
linguistic and cultural*



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*disadvantages. Teaching dual-language learners requires cultural sensitivity, an understanding of language acquisition, and intentional teaching strategies. Combining research and techniques, this*

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*resource helps early childhood educators support dual-language learners as they develop the skills necessary for school readiness and success.*

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*midwifery, reproductive physiology, clinical genetics, and support for women in labor. Interwoven throughout is information on primary care, gynecology, maternity care, and neonatal care. With chapters*

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*written by a variety of expert midwives and an increased emphasis on reproductive anatomy and physiology, this new edition assists students and clinicians in understanding not only what to do but why. Updated*

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*to reflect evidence-based care, this edition also discusses the pathophysiology of various conditions in the context of normal changes in the reproductive cycle. Also included are numerous new anatomical and*

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*perform nursing skills with  
complete confidence!*

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over 200 basic, intermediate, and  
advanced nursing skills.*

*Streamlined theory content in  
each chapter features a quick,*

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*Nursing process framework*

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*incorporates the areas of delegation and collaboration; reporting and recording; safety guidelines; and teaching, pediatric, geriatric, and home care considerations. Basic skills presented in streamlined*

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*procedural guidelines format makes it easy learn and review basic nursing skills. Clinical Decision Points within skills address key safety issues or possible skill modifications for specific patient needs. Rationales*



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*for each skill step explain why steps are performed in a specific way, including their clinical significance and benefit, and incorporate the latest research findings. Video clip icons indicate video clips that are related to*

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*skills and procedures in the book  
and related lessons in Nursing  
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*Biology: Concepts and  
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Sciences, Volume 10:**

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movements in respiratory**

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**research, including studies on the breathing process in humans; how respiratory muscles aid in respiration; and how various drugs affect breathing. The book also**

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**presents how respiratory muscles in humans, birds, and mammals function during different activities. The text also outlines the diseases that arise due to limited**

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**expiratory airflow and how  
muscles undergo fatigue.  
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and organized into 77  
chapters, the book further  
looks into the function of  
the lung during**

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**respiration through the  
comparison of the  
breathing patterns of  
humans, birds, and  
mammals. The text also  
elaborates how drugs are  
instituted in various**

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**laboratory exercises to determine their effects on the respiratory system in all the subjects mentioned. The book also identifies the different parts of the body that are**



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**involved in the breathing process. Readers and scholars who are interested in research concerning the trends in respiratory physiology will find this book**

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**interesting.**

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writing style and  
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practice nursing in a  
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competencies, rationales**

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key terms, numbered  
objectives, key points,  
critical thinking  
questions, critical  
thinking activities,  
glossary, and references.**

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**apply concepts beyond the scope of the chapter. Cultural Considerations related to biocultural variations as well as health promotion for specific ethnic groups**

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**demonstrate how to provide  
culturally competent care.  
Elder Care Points  
highlight changes that  
occur with aging and how  
they affect nursing care.  
Home Care boxes highlight**



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**the necessary adaptations  
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techniques for the patient  
in the home care setting.  
NEW! Rationales for NCLEX  
review questions at the  
end of each chapter help**

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**information. NEW! In depth discussion of the Quality and Safety Education for Nurses (QSEN) within the text provides the knowledge, skills and attitudes necessary to**

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**continuously improve the quality and safety of the healthcare systems.**

**Medicine is grounded in the natural sciences, among which biology stands out with regard to the**

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**understanding of human physiology and conditions that cause dysfunction. Ironically though, evolutionary biology is a relatively disregarded field. One reason for this**

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omission is that evolution is deemed a slow process. Indeed, macroanatomical features of our species have changed very little in the last 300,000 years. A more detailed look,

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**however, reveals that  
novel ecological  
contingencies, partly in  
relation to cultural  
evolution, have brought  
about subtle changes  
pertaining to metabolism**



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**and immunology, including adaptations to dietary innovations, as well as adaptations to the exposure to novel pathogens. Rapid pathogen evolution and evolution of**

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**cancer cells cause major problems for the immune system to find adequate responses. In addition, many adaptations to past ecologies have turned into risk factors for somatic**

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**disease and psychological disorder in our modern worlds (i.e. mismatch), among which epidemics of autoimmune diseases, cardiovascular diseases, diabetes and obesity, as**

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well as several forms of cancer stand out. In addition, depression, anxiety and other psychiatric conditions add to the list. The Oxford Handbook of Evolutionary

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**Medicine is a compilation of cutting edge insights into the evolutionary history of ourselves as a species, and how and why our evolved design may convey vulnerability to**

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**disease. Written in a classic textbook style emphasising physiology and pathophysiology of all major organ systems, the Oxford Handbook of Evolutionary Medicine will**

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**be valuable for students as well as scholars in the fields of medicine, biology, anthropology and psychology.**

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**sequence requirements of a  
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**concepts through an  
evolutionary lens. Biology  
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exceed the requirements of  
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**allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features**

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**that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.**  
**Foundations of Anesthesia**

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**Proceedings of the 28th  
International Congress of  
Physiological Sciences,  
Budapest, 1980  
Biology  
Understanding Life  
Textbook of Medical**

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**Physiology**

Fundamentals of Sleep Technology provides a thorough understanding of the use of polysomnography and other technologies in the evaluation and management of sleep disorders. Coverage includes in-

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depth reviews of the neurophysiology and cardiopulmonary aspects of sleep, along with the pathophysiology of sleep disorders. Detailed sections on polysomnography include recording procedures, identifying

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and scoring sleep stages and sleep-related events, and report generation. Chapters discuss therapeutic interventions including positive airway pressure, supplemental oxygen, surgical and pharmacologic treatments, and

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patient education. A section focuses on pediatric sleep disorders and polysomnography. Also included are chapters on establishing and managing a sleep center and accrediting a sleep program.

### Fundamentals of Sleep Technology



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is endorsed by American Association of Sleep Technologists (AAST). AAST committees oversaw the development of this book, defining the table of contents, recruiting the Editors, and providing most of the contributors.

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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 on mechanisms in assessing the biological

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plausibility of associations observed in epidemiologic studies.

Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report

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specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is

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relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Designed for a one or two semester

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non-majors course in introductory biology taught at most two and four year colleges. This course typically fulfills a general education requirement, and rather than emphasizing mastery of technical topics, it focuses on the

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understanding of biological ideas and concepts, how they relate to real life, and appreciating the scientific methods and thought processes. Given the authors' work in and dedication to science education, this text's writing style,

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pedagogy, and integrated support package are all based on classroom-tested teaching strategies and learning theory. The result is a learning program that enhances the effectiveness & efficiency of the teaching and learning experience



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in the introductory biology course like no other before it.

About the book this book presents concise and comprehensive coverage of the subject with emphasis on applied aspects of physiology. The concepts are

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Varney's Midwifery

Doing Biology

How Tobacco Smoke Causes  
Disease

The Oxford Handbook of  
Evolutionary Medicine

Regulation of Tissue Oxygenation,

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Sturkie's Avian Physiology is the classic comprehensive single volume on the physiology of domestic as well as wild birds. The Sixth Edition is thoroughly revised

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recent advances in the field.  
The text also covers the  
physiology of flight,  
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earlier editions, is a must for anyone interested in comparative physiology, poultry science, veterinary medicine, and related fields. This volume establishes the standard for those who need

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stress, the avian endocrine system, bone, the metabolic demands of migration, behavior and control of body temperature Features extensively revised chapters on the cardiovascular system,

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pancreatic hormones,  
respiration, pineal gland,  
pituitary gland, thyroid,  
adrenal gland, muscle, gastro-  
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incubation, circadian rhythms,  
annual cycles, flight, the avian

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immune system, embryo physiology and control of calcium. Stands out as the only comprehensive, single volume devoted to bird physiology Offers a full consideration of both blood

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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

In the new edition of  
**BIOLOGY: CONCEPTS AND**  
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Lisa Starr have partnered with the National Geographic Society to develop a text designed to engage and inspire. This trendsetting text introduces the key concepts of biology to non-biology majors

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biology and helping students make connections to chapter content. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to

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the blood flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where

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oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the

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mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or  $P_{O_2}$  on the cell surface falls to a critical



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level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical  $P_{O_2}$ . In

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order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be capable of regulation to ensure survival of all tissues under a wide range of

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circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the cardiovascular and respiratory systems, as well as the

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properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved. This fully revised new edition of the classic reference

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Featuring contributions from internationally recognized experts in point-of-care sonography, Emergency Point-of-Care Ultrasound, Second Edition combines a wealth of images with clear, succinct text

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to help beginners, as well as experienced sonographers, develop and refine their sonography skills. The book contains chapters devoted to scanning the chest, abdomen, head and neck, and extremities, as well as paediatric evaluations, ultrasound-guided vascular access, and more. An entire section is devoted to the

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communities and regions with underdeveloped healthcare systems, hostile environments, and cyberspace. Each chapter begins with an introduction to the focused scan under discussion and a detailed description of methods for obtaining useful images. This is followed by examples of normal and abnormal

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edition carrying the latest information. -  
Radical changes have been made in the  
chapters carrying extreme medicolegal  
significance in the prevailing scenario,  
namely--Asphyxial Deaths (especially the  
herculean issue of hanging vs.  
strangulation); Medicolegal Examination  
of the Living (with eloquent analysis of the

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latest anti-rape law); Medicolegal Implications of Injuries (especially clarifying the concept of endangering life/dangerous to life); Firearm Injuries; Medical Negligence through latest case-law, etc. - Relevant cases have been instilled to illustrate medicolegal principles encountered during day-to-day problems. -

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The aim of this treatise is to summarize the current understanding of the



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mechanisms for blood flow control to skeletal muscle under resting conditions, how perfusion is elevated (exercise hyperemia) to meet the increased demand for oxygen and other substrates during exercise, mechanisms

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underlying the beneficial effects of regular physical activity on cardiovascular health, the regulation of transcapillary fluid filtration and protein flux across the microvascular exchange vessels, and the

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role of changes in the skeletal muscle circulation in pathologic states. Skeletal muscle is unique among organs in that its blood flow can change over a remarkably large range. Compared to blood flow at

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rest, muscle blood flow can increase by more than 20-fold on average during intense exercise, while perfusion of certain individual white muscles or portions of those muscles can increase by as much as

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80-fold. This is compared to maximal increases of 4- to 6-fold in the coronary circulation during exercise. These increases in muscle perfusion are required to meet the enormous demands for oxygen and nutrients by

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the active muscles. Because of its large mass and the fact that skeletal muscles receive 25% of the cardiac output at rest, sympathetically mediated vasoconstriction in vessels supplying this tissue allows

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central hemodynamic variables (e.g., blood pressure) to be spared during stresses such as hypovolemic shock.

Sympathetic vasoconstriction in skeletal muscle in such pathologic conditions also

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effectively shunts blood flow away from muscles to tissues that are more sensitive to reductions in their blood supply that might otherwise occur. Again, because of its large mass and percentage of



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cardiac output directed to skeletal muscle, alterations in blood vessel structure and function with chronic disease (e.g., hypertension) contribute significantly to the pathology of such disorders. Alterations in

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skeletal muscle vascular resistance and/or in the exchange properties of this vascular bed also modify transcapillary fluid filtration and solute movement across the microvascular barrier to

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influence muscle function and contribute to disease pathology. Finally, it is clear that exercise training induces an adaptive transformation to a protected phenotype in the vasculature supplying

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skeletal muscle and other tissues to promote overall cardiovascular health. Table of Contents: Introduction / Anatomy of Skeletal Muscle and Its Vascular Supply / Regulation of Vascular Tone in Skeletal Muscle /

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Exercise Hyperemia and  
Regulation of Tissue  
Oxygenation During Muscular  
Activity / Microvascular  
Fluid and Solute Exchange in  
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Muscle Circulation in Aging  
and Disease States:

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Protective Effects of  
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