

REPRODUCTIVE SYSTEM

Lecture 19

Reproductive System

- The reproductive system is a collection of organs and a network of hormone production that work together to create life

Functions of the Reproductive System

- Production of Gametes
 - Gametes are reproductive cells, produced by the gonads (male and female)
 - Male gonads are called Testes which produce Sperm cells.
 - Female gonads are called Ovaries which produce Egg cells or Oocytes.
- Fertilization
 - Process by which the sperm and egg cells meet.
- Development and nourishment of a new individual
 - Development of fetus once fertilization happens.
 - Nourishment is through breastfeeding after birth.
- Production of Reproductive Hormones
 - Hormones control the development of sex-specific body forms, routine functions of the reproductive system, and reproductive behavior.
 - Male produces Testosterone
 - Female produces Estrogen and Progesterone.

Male Reproductive System



Testes

- Small ovoid organs inside the Scrotum
- Both exocrine and endocrine glands.
 - Its exocrine has a duct that secretes sperm cells out of the body
 - Its endocrine has no duct and directs Testosterone into the bloodstream.
- Produces Testosterone (hormone)



Structure of the Testes

Tunica Vaginalis	The white part of the testes is a serous membrane consisting of squamous epithelium.
Tunica Albuginea	Also a white fibrous connective tissue capsule that surrounds each testis.
Septa	Extensions into testis, dividing it into lobules.
Lobules	Contain seminiferous tubules.
Seminiferous Tubules	Where sperm cells are developed.
Interstitial Cells	Also called Leydig cells, produces testosterone hormone.

- The combined length of the seminiferous tubules in both testes is nearly half a mile.
- Tubuli Recti
 - The seminiferous tubules empty into a set of short straight tubules.
- Rete Testis
 - These in turn empty into a tubular network.
- Efferent Ductules

Anatomy And Physiology 9e Marieb Reproductive System

Ian Peate, Elizabeth Gormley-Fleming



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Clinical Anatomy and Physiology for Veterinary Technicians Thomas P. Colville, Joanna M. Bassert, 2015-03-10 NEW Vocabulary Fundamentals list of terms at the beginning of each chapter introduce readers to new scientific terms and their pronunciations Exercise and Human Reproduction Diana Vaamonde, Stefan S du Plessis, Ashok Agarwal, 2016-03-07 Providing a comprehensive review of the interactions between exercise and human reproduction this unique text focuses on both the positive and negative consequences of sport and physical activity on male and female fertility and infertility and the biological mechanisms and processes behind them Beginning with a review of the structure and function of the male and female reproductive systems as well as fertilization and gestation the discussion then turns to the physiology and endocrinology of sport and exercise which is further elaborated in subsequent chapters on the impact of physical activity hormonal changes pathologies and consequences of drug use for active men and women Additional chapters address related topics such as the impact of sport on young athletes and developing reproductive potential physical activity and pregnancy the use of oral contraceptives in athletes oxidative stress and the impact of nutritional deficiencies on athletes fertility with a final chapter providing recommendations and therapeutic guidelines for exercise related reproductive disorders Covering everything from the fundamental principles of sports physiology and human reproductive potential to the interaction between physical exercise and the endocrinology of the reproductive system Exercise and Human Reproduction is an authoritative resource for helping clinicians understand how the reproductive system adapts to activity and exercise and offers strategies to avoid potential harm to human reproduction *Fundamentals of Children and Young People's Anatomy and Physiology* Ian Peate, Elizabeth Gormley-Fleming, 2025-04-23 Fundamentals of Children and Young People s Anatomy and Physiology THIRD EDITION The latest edition of an essential resource for nursing and healthcare students covering the anatomy and physiology of children and young people Fundamentals of Children and Young People s Anatomy and Physiology 3rd Edition contains the critical knowledge associated with anatomy and physiology required to provide safe and effective care to children and young people Emphasising the application of evidence based theory to practice this comprehensive yet accessible textbook helps nursing and healthcare students understand how children s anatomical and physiological systems influence disease processes and treatment options differently than in adults This third edition includes an expanded focus on ethnic minority communities and representation of gender and LGBTQI issues to ensure a more inclusive understanding of diversity in the population Readers will also find A collection of effective pedagogical tools designed to enhance learning including chapter specific learning objectives clinical considerations and self assessment questions Practical discussions with a focus on access to care determinants of health and health inequalities Detailed considerations of the mental health of children and young people and how it impacts their anatomy and physiology This is the ideal book for nurses nursing associates healthcare assistants and allied health professionals and those studying within those fields **Introduction to**

the Anatomy and Physiology of Children Janet MacGregor, 2008-04-18 Fully updated this new edition provides an introduction to normal healthy physical development for all professionals who specialise in working with children The author an experienced nurse teacher guides the reader through the key changes in body systems and functions from embryo to birth through childhood and adolescence Chapter 1 sets the scene for physical needs in child development such as the need to be warm and safe Chapters 2 to 9 cover the body systems skeletal nervous cardiovascular respiratory renal digestive reproductive and immune The embryology and physiological function at birth is explored in each chapter before the text moves on through the many changes over the next decade to puberty and the arrival at adult functioning A new final chapter provides a holistic account of children s development body and mind Each chapter is illustrated with line drawings and tables and ends with scenarios which illustrate how knowledge supports good practice in a real life situation and a quiz to consolidate learning Concise and clearly written this introductory text will be essential reading for all those working with children and families in the health and social care sector enabling them to ensure children enjoy a safe and healthy childhood in line with Every Child Matters and new national service framework directives

Fundamentals of Children's Anatomy and Physiology Ian Peate, Elizabeth Gormley-Fleming, 2015-01-27 When caring for the well or ill child recognising and responding to their anatomical and physiological differences is essential Fundamentals of Children s Anatomy and Physiology provides child nursing students and registered nurses with a succinct but complete overview of the structure and function of the child s body plus clinical applications throughout to demonstrate how the concepts relate to real life nursing Each chapter lists learning outcomes and includes clinical considerations body maps a range of high quality illustrations and test your knowledge questions The book is also accompanied by a companion website with further self assessment and quizzes

Physical Aspects of Organs and Imaging Hartmut Zabel, 2017-06-12 Medical Physics covers the applied branch of physics concerned with the application of concepts and methods of physics to diagnostics and therapeutics of human diseases The first part Physical and Physiological Aspects of the Body covers those body systems that have a strong physical component such as body mechanics energy household action potential signal transmission in neurons respiratory and circulatory system as well as visual and sound perception The second part of this volume Imaging Modalities without Ionizing Radiation introduces sonography endoscopy and magnetic resonance imaging The second volume complements the imaging modalities with the use of ionizing radiation x ray radiography scintigraphy SPECT and PET This first part is followed by chapters on radiation treatment of tumors in particular x ray radiotherapy proton and neutron radiation therapy and brachytherapy The last part treats aspects of diagnostics and therapeutics beyond radiology including laser applications multifunctional nanoparticles and prosthetics This first volume connects the basic principles of physics with the functionality of the body and with physical methods used for diagnostics and therapeutics covers the first part of the entire field including the physics of the body and imaging methods without the use of ionizing radiation provides an introduction for Bachelor students to the

main concepts of Medical Physics during their first semesters guiding them to further specialized and advanced literature contains many questions answers related to the content of each chapter is also available as a set together with Volume 2 Contents Part A Physical and physiological aspects of the body Brief overview of body parts and functions Body mechanics and muscles Elastomechanics bones and fractures Energy household of the body Resting potential and action potential Signal transmission in neurons Electrophysical aspects of the heart The circulatory system The respiratory system Kidneys Basic mechanism of vision Sound and sound perception Part B Imaging modalities without ionizing radiation Sonography Endoscopy Magnetic resonance imaging Questions answers *Flesh and Blood* George C. Denniston, Frederick Mansfield Hodges, Marilyn Fayre Milos, 2013-03-09 Who owns your sex organs Different cultures today and in different epochs have given a variety of answers to this question It may seem self evident that every individual owns and has sovereignty over his or her own body parts such as the head legs nose stomach pancreas and other body parts The sex organs however seem to be an exception Even though they are as much an integral part of the individual as a leg or a liver the sex organs are unique in that many cultures have established laws and taboos over the use and even the mere display of the sex organs Thus certain cultures have placed constraints over the individual s ownership of his or her sex organs and actively regulate and restrict the individual s access and use of those organs In other cultures the question of ownership of the sex organs is more decisively answered In any culture where circumcision to any degree of either the male or female is practiced permitted encouraged or even merely tolerated it is clear that the individual is not considered to own his own sex organs In the United States today the medical establishment has created an is considered acceptable and desirable that anyone for environment where it any reason can authorize or execute the amputation of the foreskin from a male child s penis **Clinical**

Applications of Human Anatomy and Physiology for Healthcare Professionals Jassin M. Jouria, Jr., 2018-06-30

Anatomy and Physiology is effectively a broad introductory course that requires the student to devote an enormous amount of effort to understand it on even a basic level While this necessitates time it can be streamlined in the early stages of one s learning so that the student may understand why he or she is required to invest such a large amount of time into learning Clinical Applications of Human Anatomy Physiology is the textbook that accomplishes this Clinical Applications of Human Anatomy Physiology is a book that combines both areas of knowledge for a full comprehension of the human body It is targeted to healthcare students in need of a better understanding of human physiology to combine with their clinical training The main objective of this book is to elucidate the organization and functioning of the major Clinical Applications of Human Anatomy Physiology is a book that combines both areas of knowledge for a full comprehension of the human body It is targeted to healthcare students in need of a better understanding of human physiology to combine with their clinical training The main objective of this book is to elucidate the organization and functioning of the major organs and systems with an emphasis on the applications of this knowledge on the daily clinical routine One of the main differences of this textbook that

sets it apart from others is that it not only provides the information it also contextualizes it Every chapter starts introducing a case study that is related to the content that is going to be approached At the end of the chapter there is the conclusion of each case study which presents the final diagnosis showing every step of the process This context is essential so that when the student faces this situation in the real life clinic he or she will be able to deal with it efficiently Clinical Applications of Human Anatomy Physiology also has sections of questions to practice the knowledge that was obtained during the chapter and the answers to each question are explained so no doubts remain after studying All of this means that Clinical Applications of Human Anatomy Physiology is a fully rounded book that combines information and practical applications as well as questions that help the student to understand and retain all the information in a very efficient and effective way This book has all the information you need to get started on your journey to learning about the human body

Infertility in the Male Larry I. Lipshultz, Stuart S. Howards, Craig S. Niederberger, Dolores J. Lamb, 2023-06-15 Practical guidance for treating men with suboptimal fertility and reproductive problems covering clinical evaluations diagnosis and care

Cancer Nursing Susan L. Groenwald, 1993

Reviewing **Anatomy And Physiology 9e Marieb Reproductive System**: Unlocking the Spellbinding Force of Linguistics

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