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Organisms reproduce to ensure the continued survival of their respective species. For humans, our ability to produce offspring and contribute to genetic variability in the world is made possible by our body's reproductive system. In The Reproductive System, Third Edition, learn how the development of the reproductive systems in both males and females depends on the delicate and coordinated balance of genetic makeup, hormones, and the nervous

system. Also examined are the reproductive systems of males and females, and how the body develops from conception through puberty and into maturity. Packed with full-color photographs and illustrations, this absorbing book provides students with sufficient background information through references, websites, and a bibliography. When considering the physiological systems of the body, the degree of species variation within the reproductive system compared to other systems is remarkable. Furthermore, it is essential that researchers, educators, and students alike remain aware of the fundamental comparative differences in the reproductive

biology of domestic species. Written by renowned scientists in their respective fields, *Comparative Reproductive Biology* is a comprehensive reference on the reproductive systems of domestic species. The book offers both broad and specific knowledge in areas that have advanced the field in recent years, including advances in cell and molecular biology applied to reproduction, transgenic animal production, gender selection, artificial insemination, embryo transfer, cryobiology, animal cloning and many others. This seminal text includes topics in animal reproduction that are usually only found as part of other

books in animal science such as anatomy, histology, physiology, radiology, ultrasonography, and others. Comprehensive reference of the reproductive systems of domestic species. Written by a team of top researchers richly illustrated throughout, including 12 pages of color images. *Reproductive System, 2nd Edition* provides a concise and highly visual approach to the basic sciences and clinical pathology of this body system. This volume in *The Netter Collection of Medical Illustrations* (the CIBA "Green Books") has been expanded and revised by Drs. Roger P. Smith and Paul J. Turek to cover novel and important topics like sex

determination, fertility medicine, genetics, contraception, sexual dysfunction, and more. Classic Netter art, updated and new illustrations, and modern imaging make this timeless work essential to your library. Master knowledge of the development, function, and pathology of the male and female reproductive tracts through elegant and informed side-by-side discussions of these systems. View the artistic mastery and beauty of Netter's finest images, presented in one of the most complete and best organized series of illustrations of reproductive system in health and disease. Be inspired by the wondrously complex and

highly-evolved human reproductive tract through integrated discussions of primary and subspecialty concepts in clinical care. Get a deep understanding of complex topics in reproductive medicine through the brilliant text-atlas format that Netter has brought to new and richly artistic heights. Access today's clinical knowledge on all aspects of the reproductive system—including sexual development and dysfunction, genetics, fertility medicine, prostate health, contraception, and treatable problems in pregnancy—conveyed through beautiful illustrations and vivid radiologic images. Benefit from the expertise of two world-class

editors, Roger Smith, MD—a gynecologist—and Paul Turek, MD—a urologist and microsurgeon—both talented minds and clear thinkers in the field of reproductive biology and medicine. Connect the connection between basic and clinical sciences as only Netter can help you do through the visual integration of normal and pathologic structure and function in the reproductive tract. Learn and review the fundamental of reproductive medicine—with the classic Netter art, beautiful new and updated illustrations, and modern imaging. Apply the perspective of an experienced, international advisory board to many controversies and timely

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topics in clinical medicine. Explores the mating habits and reproductive process of several members of the plant and animal kingdoms. This acclaimed text has been fully revised and updated, now incorporating issues including aging of the reproductive system, and updates on the chapters on conception and Gamete Transport and Fertilization, and Pregnancy. Human Reproductive Biology, Third Edition emphasizes the biological and biomedical aspects of human reproduction, explains advances in reproductive science and discusses the choices and concerns of today. Generously illustrated in full color, the text

provides current information about human reproductive anatomy and physiology. The ideal book for courses on human reproductive biology - includes chapter introductions, sidebars on related topics of interest, chapter summaries and suggestions for further reading. All material completely updated with the latest research results, methods, and topics now organized to facilitate logical presentation of topics New chapters on Reproductive Senescence, Conception: Gamete Transport, Fertilization, Pregnancy: Maternal Aspects and Pregnancy: Fetal Development Full color illustrations Discusses the male and female

reproductive systems, explaining how they work together to form new life, and describing sexually transmitted diseases and other illnesses that affect the reproductive system. **This is the chapter slice "The Reproductive System" from the full lesson plan "Circulatory, Digestive & Reproductive Systems"** How can you tell the difference between an artery and a vein? Our resource tells you how! Learn the major organs of four body systems and how they work to keep us alive and healthy. We begin with blood, blood vessels and the heart. Next, we follow the path food takes from the mouth to the large intestine, and find out

how food is turned into fuel. Then it's on to how the liver, lungs and skin all help rid our body of toxins. We look inside the kidneys and intestines, and finish with how a tiny sperm and egg cell can grow into a baby. Reading passages, student activities, test prep, and color mini posters all included. All of our content is aligned to your State Standards and are written to Bloom's Taxonomy and STEM initiatives. New techniques in cellular and molecular biology have increased our understanding of the mechanisms controlling reproductive function in the female. Emphasizing these new techniques, Molecular Biology

of the Female Reproductive System provides a state-of-the-art review of local regulatory mechanisms that control reproductive processes. Stressing the interface of endocrinology, immunology, and cell biology, this book concentrates on the autocrine, paracrine, and endocrine systems that regulate both the functions of the ovary and uterus and the interaction between the early embryo and the mother. Key Features * Covers the mechanisms controlling reproductive function in the female * Offers a cellular and molecular approach to the control of reproductive function * Focuses on the ovary and

uterus, and includes a discussion of the early embryo, including * Hormonal control of folliculogenesis and luteal function * Cell-cell interactions in the follicle * Role of cytokines in regulating steroid and protein hormone production * Endocrine receptors and mechanisms in ovulation * Cell biology of the oviduct and uterus * Migratory cells * Paracrine regulation * Hormones of the trophoctoderm and early placenta * Interaction between trophoctoderm and endometrium * Provides extensive references The Reproductive System Biology Small, uncoordinated, and slick with amniotic fluid, a newborn

encounters the world outside of her mother's womb. We do not often consider that a child's birth is proof of the healthy functioning of both her mother's and father's reproductive systems. Moreover, her parents' endocrine systems had to secrete the appropriate regulating hormones to induce the production and release of unique male and female gametes, reproductive cells containing the parents' genetic material (one set of 23 chromosomes). Her parent's reproductive behavior had to facilitate the transfer of male gametes--the sperm--to the female reproductive tract at just the right time to encounter

the female gamete, an oocyte (egg). Finally, combination of the gametes (fertilization) had to occur, followed by implantation and development. In this book, you will explore the male and female reproductive systems, whose healthy functioning can culminate in the powerful sound of a newborn's first cry. Chapter Outline: Anatomy and Physiology of the Male Reproductive System Anatomy and Physiology of the Female Reproductive System Development of the Male and Female Reproductive Systems The Open Courses Library introduces you to the best Open Source Courses. Examines the role and function

of the human reproductive system. The endocrine system is essential to human life. It enables a person to grow, respond to change and stress, and helps turn food into energy. The reproductive system has one crucial task: that of making the next generation of people. Readers learn how these two remarkable systems work together to ensure survival of the human race. Discusses the composition and function of the reproductive system within the human body. This book will explain the definition, functions, organs and parts of the reproductive system, including the male and female reproductive system. It will

make you discover the reproductive system in its entirety. All in the form of questions and answers to facilitate understanding of the subject. The Reproductive System at a Glance is a comprehensive guide to normal reproductive biology and associated pathophysiology in both sexes. Concise, easy to read, and clearly structured, the double-page spreads progress from basic science to clinical abnormalities, and covers endocrine production and action, within one short volume. Chapters on disorders summarise epidemiology, pathophysiology, diagnosis and treatment. This new edition of The Reproductive System at a

Glance: • Is fully revised and updated throughout to reflect recent developments in practice • Now features histological and pathological slides to complement the “at a glance” style explanatory illustrations • Now features radiologic studies to supplement the text in selected chapters • Contains more detailed coverage of maternal adaptations to pregnancy • Includes a companion website at www.ataglanceseries.com/reproduction featuring self-assessment multiple choice questions, bonus single answer questions and flashcards The Reproductive System at a Glance is an ideal guide for

students studying both endocrine and reproductive subjects, and teaches the foundation concepts for the obstetrics and gynaecology rotation, helping health professionals and students achieve a broad and practical understanding of the topic. Discusses aspects of reproduction, including heredity, pregnancy, and contraception, and explains the stages of growth from fertilization to birth. The reproductive system is a set of organs that enable the process of sexual reproduction in an organism. For humans, this has resulted in the emergence of two different sexes, male and female, both of which have

significantly different sexual organs. The reproductive system is a complex one. It is prone to disease and other abnormal conditions. In such instances, a reference guide will surely be helpful to quickly identify any problem you are having so you can promptly have them treated. Physiology of Human Reproduction provides students with a concise and accessible overview of more than 200 vital concepts, from the basic physiology of the male and the nonpregnant female, to fertilization, embryonic and fetal growth, labor, lactation, and more. Presented in a readable style, key terms are highlighted throughout the

main text to enable students to quickly find a concept and read the appropriate information. Whether reading the book from cover to cover, or using a focused approach to learn about specific concepts, readers will find this textbook to be an invaluable tool for increasing their understanding of human reproduction. An essential companion for standard Anatomy and Physiology courses, this student-friendly textbook: Covers physiology of the male, the physiology of the nonpregnant female, pregnancy and lactation, and age-related changes such as menopause Discusses pregnancy, birth control, and

the reproductive system in childhood, adolescence, and puberty Describes the anatomy, physiology, and phases of the human sexual response Explains genetic conditions and disorders including androgen insensitivity syndrome and Kallman's syndrome Physiology of Human Reproduction is a must-have learning guide for students in the medical and life sciences, including medicine, nursing, biology, physiology, and biomedicine, as well as those in courses covering human reproduction and pregnancy. The female reproductive system consists of the hypothalamic-pituitary unit, the ovaries, the reproductive tract, and the external

genitalia. The functions of the female reproductive system are to produce and deliver oocytes, for sexual reproduction, and produce hormones that regulate reproductive function and secondary sex characteristics. Abnormalities in anatomic or physiologic function affect the development and delivery of gametes, and potential fertility. Female factor infertility can be divided into several categories: ovarian, tubal and peritoneal, uterine, cervical, and other. Management of female factors affecting fertility may include medical treatment, surgical intervention, or assisted reproductive techniques. This book provides a comprehensive

review of the clinical anatomy and physiology specific to female reproductive system, emphasizing causes and management of female infertility. By developing a clear understanding of what is normal, you will better understand abnormalities affecting female fertility and the mechanisms behind treatment. The Reproductive Biology of Bats presents the first comprehensive, in-depth review of the current knowledge and supporting literature concerning the behavior, anatomy, physiology and reproductive strategies of bats. These mammals, which occur world-wide and comprise a vast assemblage of species,

have evolved unique and successful reproductive strategies through varied anatomical and physiological specialization. These are accompanied by individual and/or group behavioral interactions, usually in response to environmental mechanisms essential to their reproductive success. Is the first book devoted to the reproductive biology of bats Contains in-depth reviews of the literature concerned with bat reproduction Contributors are widely recognized specialists Provides a powerful database for future research We all know that there are books and books written on how the human reproductive

systems works, as well as new discoveries constantly made in the field. However, for a student of biology, sifting through tomes on the subject that is only a small part of the larger subject can be tedious and time-consuming. Instead, it can help students to have a short, basic, go-to pamphlet that will help them remember the basics of the human reproductive system. Thus, they can spend time building up the rest of their biology knowledge, too. The fourth edition of *Human Reproductive Biology*—winner of a 2015 Textbook Excellence Award (Texty) from The Text and Academic Authors Association—emphasizes the

biological and biomedical aspects of human reproduction, explains advances in reproductive science and discusses the choices and concerns of today. Generously illustrated in full color, the text provides current information about human reproductive anatomy and physiology. This expansive text covers the full range of topics in human reproduction, from the biology of male and female systems to conception, pregnancy, labor and birth. It goes on to cover issues in fertility and its control, population growth and family planning, induced abortion and sexually transmitted diseases. This is the ideal book for courses on

human reproductive biology, with chapter introductions, sidebars on related topics, chapter summaries and suggestions for further reading. Winner of a 2015 Texty Award from the Text and Academic Authors Association. Beautifully redrawn full-color illustrations complement completely updated material with the latest research results, and clear, logical presentation of topics. Covers the basic science of reproduction—endocrinology, anatomy, physiology, development, function and senescence of the reproductive system—as well as applied aspects including contraception, infertility and

diseases of the reproductive system New companion website features full-color illustrations as PowerPoint and jpeg files for both professors and students to use for study and presentations Discusses the male and female reproductive systems, explaining how they work together to form new life, describing diseases that affect the system, and examining ethical debates from birth control to infertility. The male reproductive system consists of the hypothalamic-pituitary unit, the testes, the reproductive tract, and the external genitalia. The functions of the male reproductive system are to produce and deliver

spermatozoa, for sexual reproduction, and produce hormones that regulate reproductive function and secondary sex characteristics. Abnormalities in anatomic or physiologic function affect the development and delivery of spermatozoa, and potential fertility. Male factors are often the cause of a couple's failure to conceive, therefore, it is important to evaluate and treat the male partner. A male factor may be due to abnormalities of hormonal control, testicular function, or sperm transport or delivery. This book provides a comprehensive review of the clinical anatomy and physiology specific to male reproductive system,

emphasizing causes and management of male infertility. By developing a clear understanding of what is normal, you will better understand abnormalities affecting male fertility and the mechanisms behind treatment. This book discusses the role of oxidative stress in the reproductive system. The book reviews endogenous sources, methods of determining its levels in body fluid/tissues, the physiological roles of ROS, as well as its negative effects on the human reproductive processes. Also discussed are multiple extrinsic factors that could induce oxidative stress in the reproductive system. This volume covers various clinical

pathologies related to the reproductive system that arise from or produce oxidative stress, both in the male and female. The use of antioxidants as a therapeutic measure to keep ROS levels in check are highlighted, describing the outcome of various clinical studies involving antioxidant supplementation in infertile patients. Infertility is a global disease that affects 15-25% of all couples, and oxidative stress arising from a multitude of sources has been implicated as one of the major contributing factors to the decline in human fertility. As such, this book provides an up-to-date review on the significance of ROS in human reproduction. 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. This 2-page laminated guide contains detailed, labeled illustrations of the reproductive system. Illustrations are by award-winning medical illustrator Vince Perez. Describes the male and female reproductive systems, puberty, pregnancy, and safe sex. The human body is equipped with everything it needs to produce more of its own species. This book

describes the structures of the male and female reproductive systems, and explains the functions of each structure. It also examines diseases and disorders that can develop, as well as current and future medical technologies involved in diagnosis and treatment of those illnesses. This book provides an overview of the role and function of regulatory RNAs that lack protein-coding potential in key reproductive tissues. This includes the role of small interfering RNAs (siRNAs), microRNAs (miRNAs), PIWI-interacting RNAs (piRNAs), small nucleolar RNAs (snoRNAs) and long non-coding RNAs (lncRNAs). Through clear, detailed and

comprehensive debate, international leading experts discuss the role these novel regulators in normal development of sexual dimorphisms, including the differentiation of ovaries and testes, the genital tract including prostate, epididymis and uterus, as well as mammary glands. In addition, particular attention is paid on their role in pathophysiological processes within the reproductive tract. The power of next generation sequencing has proved to be an invaluable tool to discover new non-coding RNAs. While the identification of non-coding RNA is relatively easy, analysing their function represents still a challenge

today. In this book, authors present historical and conceptual background information, highlight the ways in which non-coding RNAs

function is analysed and present their vision of the future research in their key research area. This book

examines the development and changes that occur in the reproductive system of both sexes--from conception through puberty and adulthood.