

Advances in Anatomy  
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K.J. Barteczko M.I. Jacob

## **The Testicular Descent in Human**

Origin, Development and Fate of the  
Gubernaculum Hunteri,  
Processus Vaginalis Peritonei,  
and Gonadal Ligaments



Springer

# The Testicular Descent In Human The Testicular Descent In Human

**Richard A. Polin, Steven H. Abman**



## **The Testicular Descent In Human The Testicular Descent In Human:**

**The Testicular Descent in Human** K.J. Barteczko,M.I. Jacob,2012-12-06 The testicular descent descensus testis is described in a complete series of human material from stage 14 CC to the adult state by using own phases Central points of interest in this work are answers to questions which have been discussed controversially by generations of scientists and which are wrong or inadequately documented in most textbooks of embryology Does an inner gonadal descent exist What about origin role and fate of gubernaculum H processus vaginalis peritonei and gonadal ligaments How do the annexes of testis come into their final position The results are based on serial sections scanning electron microscopy three dimensional reconstructions microdissection and immunohistochemistry *The Testicular Descent in Human* K. J. Barteczko,M. I. Jacob,2000-07-26

**The Testicular Descent in Human** K.J. Barteczko,M.I. Jacob,2000-07-26 The testicular descent descensus testis is described in a complete series of human material from stage 14 CC to the adult state by using own phases Central points of interest in this work are answers to questions which have been discussed controversially by generations of scientists and which are wrong or inadequately documented in most textbooks of embryology Does an inner gonadal descent exist What about origin role and fate of gubernaculum H processus vaginalis peritonei and gonadal ligaments How do the annexes of testis come into their final position The results are based on serial sections scanning electron microscopy three dimensional reconstructions microdissection and immunohistochemistry **Cryptorchidism: Causes and Consequences**

Richard Ivell,Julia Spencer Barthold,2019-12-24 Cryptorchidism is the failure of one or both testes to descend into the scrotum at birth or shortly thereafter depending on species or the ascent of previously descended testes later in life It is the commonest of all congenital conditions in the human representing between 1 and 9% of all male babies born It is also common in domestic species such as pigs dogs and horses Importantly cryptorchidism is seen as a sentinel of fetal well being and is associated with other less common ailments such as testis cancer and hypospadias as part of the testicular dysgenesis syndrome TDS as well as being linked to maternal smoking and intrauterine growth restriction It also likely results from maternal exposure to endocrine disrupting chemicals Surprisingly we know relatively little about its immediate causes although deficits in fetal hormonal signaling through INSL3 or testosterone and complex genetic susceptibility seem to be involved The testes may be affected unilaterally or bilaterally with anatomical arrest anywhere between the abdomen to just above the scrotum Significantly we need to distinguish between the consequences of cryptorchidism simply due to retention of the testes within the body cavity at abdominal rather than scrotal temperature and those sequelae which share a common fetal cause The former are largely correctable by early orchidopexy In this Research Topic we aim to bring together a broad selection of articles reviews original research articles commentaries and hypotheses from the leading experts in the field discussing all aspects of this common congenital condition and throwing light on its genetic and environmental causes including its relationship to TDS and the biological mechanisms involved its sequelae and how these relate to optimal

treatment     **Pediatric Endocrinology** Ora Hirsch Pescovitz, Erica A. Eugster, 2004 Pescovitz and Eugster both affiliated with the Section for Pediatric Endocrinology Diabetology at Indiana University School of Medicine provide essential information on the mechanisms diagnosis and management of pediatric endocrine disorders Aspects of human development and physiology are combined with information on etiology diagnosis and treatment Within each of the traditional endocrine systems contemporary molecular genetics and developmental endocrinology are presented followed by material on specific clinical disorders and therapeutic strategies Interspersed throughout the book are chapters devoted to emerging issues such as childhood obesity short stature and treatment of children with disorders of sexual differentiation B w photos and diagnostic images are included Annotation 2004 Book News Inc Portland OR booknews com source inconnue

*Campbell-Walsh Urology E-Book* Alan J. Wein, Louis R. Kavoussi, Alan W. Partin, Craig A. Peters, 2015-10-23 Internationally lauded as the preeminent text in the field Campbell Walsh Urology continues to offer the most comprehensive coverage of every aspect of urology Perfect for urologists residents and practicing physicians alike this updated text highlights all of the essential concepts necessary for every stage of your career from anatomy and physiology through the latest diagnostic approaches and medical and surgical treatments The predominant reference used by The American Board of Urology for its examination questions Algorithms photographs radiographs and line drawings illustrate essential concepts nuances of clinical presentations and techniques and decision making Key Points boxes and algorithms further expedite review Features hundreds of well respected global contributors at the top of their respective fields A total of 22 new chapters including Evaluation and Management of Men with Urinary Incontinence Minimally Invasive Urinary Diversion Complications Related to the Use of Mesh and Their Repair Focal Therapy for Prostate Cancer Adolescent and Transitional Urology Principles of Laparoscopic and Robotic Surgery in Children Pediatric Urogenital Imaging and Functional Disorders of the Lower Urinary Tract in Children Previous edition chapters have been substantially revised and feature such highlights as new information on prostate cancer screening management of non muscle invasive bladder cancer and urinary tract infections in children Includes new guidelines on interstitial cystitis bladder pain syndrome uro trauma and medical management of kidney stone disease Anatomy chapters have been expanded and reorganized for ease of access Boasts an increased focus on robotic surgery image guided diagnostics and treatment and guidelines based medicine Features 130 video clips that are easily accessible via Expert Consult Periodic updates to the eBook version by key opinion leaders will reflect essential changes and controversies in the field Expert Consult eBook version included with purchase This enhanced eBook experience offers access to all of the text figures tables diagrams videos and references from the book on a variety of devices     Normal Testicular Descent and the Aetiology of Cryptorchidism John M. Hutson, Masaru Terada, Baiyun Zhou, Martyn P.L. Williams, 2012-12-06 This review describes recent research into the cause of testicular descent and discusses two controversial theories on the mechanism New animal models of cryptorchidism are described which shed light on the

possible aetiology A brief summary is given of current management highlighting the controversies of timing of surgery use of hormone therapy and congenital versus acquired undescended testes New information about germ cell development in the postnatal testis is changing the way we view treatment and the ultimate prognosis Androgens and Androgen Receptor Chawnsang Chang, 2012-12-06 Androgen Receptors is the most comprehensive and up to date volume on the topic including discussions of the basic mechanisms of androgen androgen receptor actions their roles in the androgen related diseases and their potential clinical applications Key topics covered include The discovery and cloning of the androgen receptor Androgen receptor coregulators Androgen related genes and their consensus DNA response elements Basic mechanism of action including functional analyses cellular localization and phosphorylation studies Cross talk to other signal transduction systems The recent connections of androgens to women s diseases such as osteoporosis and ovarian cancer This book is of interest to students basic scientists and clinicians as both a study guide and reference of research in the androgen field It could also be used as an advanced level text in endocrinology urology OBGYN or oncology Campbell Walsh Wein Urology, E-Book Alan W. Partin, Roger R. Dmochowski, Louis R. Kavoussi, Craig A. Peters, Alan J. Wein, 2020-01-21 From the basic science underpinnings to the most recent developments in medical and surgical care Campbell Walsh Wein Urology offers a depth and breadth of coverage you won t find in any other urology reference Now in three manageable volumes the revised 12th Edition is a must have text for students residents and seasoned practitioners with authoritative up to date content in an intuitively organized easy to read format featuring key points quick reference tables and handy algorithms throughout Features shorter more practical chapters that help you find key information quickly Includes new chapters on Urinary Tract Imaging Basic Principles of Nuclear Medicine Ethics and Informed Consent Incisions and Access Complications of Urologic Surgery Urologic Considerations in Pregnancy Intraoperative Consultation Special Urologic Considerations in Transgender Individuals and more Covers hot topics such as minimally invasive and robotic surgery advancements in urologic oncology including innovative therapeutics for personalized medicine new approaches to male infertility technological advances for the treatment of stones and advances in imaging modalities Incorporates current AUA EAU guidelines in each chapter as appropriate Updates all chapters with new content new advances and current references and best practices Extensively updated chapters include Urological Immunotherapy Minimally Invasive Urinary Diversion and Updated Focal Therapy for Prostate Cancer Features more than 175 video clips including all new videos on perineal ultrasound abdominoplasty in prune belly syndrome partial penectomy low dose rate brachytherapy and many more Written and edited by key opinion leaders reflecting essential changes and controversies in the field Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices **Knobil and Neill's Physiology of Reproduction** Ernst Knobil, 2006 The 3rd edition the first new one in ten years includes coverage of molecular levels of detail arising from the last decade s explosion of information at this level of organismic organization

There are 5 new Associate Editors and about 2/3 of the chapters have new authors. Chapters prepared by return authors are extensively revised. Several new chapters have been added on the topic of pregnancy reflecting the vigorous investigation of this topic during the last decade. The information covered includes both human and experimental animals. Basic principles are sought and information at the organismic and molecular levels are presented. The leading comprehensive work on the physiology of reproduction, edited and authored by the world's leading scientists in the field, is a synthesis of the molecular, cellular, and organismic levels of organization. Bibliographies of chapters are extensive and cover all the relevant literature.

**Human Reproductive and Prenatal Genetics** Peter C.K. Leung, Jie Qiao, 2023-03-22. Selected for Doody's Core Titles 2024 in Clinical Genetics. Human Reproductive and Prenatal Genetics, Second Edition, provides application-driven coverage of key topics in human reproductive and prenatal genetics, including genetic control underlying the development of the reproductive tracts and gametogenesis, the genetics of fertilization and implantation, the genetic basis of female and male infertility, as well as genetic and epigenetic aspects of assisted reproduction. Also examined are the genetics and epigenetics of the placenta in normal and abnormal pregnancy, preimplantation genetic diagnosis and screening, and cutting-edge advances in noninvasive prenatal screening, prenatal genetic counseling, and bioethical and medicolegal aspects of relevance in the lab and clinic. This new edition has been fully revised to address new and evolving technologies in human reproductive genetics, with new chapters added on chromatin landscapes and sex determination, genetic alterations of placental development, and preeclampsia, metabolism, and inflammation in PCOS, preimplantation genetic testing, maternal genetic disorders, bioethics, and future applications. Features chapter contributions from leading international scientists and clinicians. Provides in-depth coverage of key topics in human reproductive and prenatal genetics, including genetic controls, fertilization, placental development, embryo implantation, in vitro culture of the human embryo for the study of post-implantation development, and more. Identifies how researchers and clinicians can implement the latest genetic, epigenetic, and omics-based approaches. Includes all new chapters on evolving technologies and recent genetic discoveries of relevance to reproductive medicine.

**Urologic Surgical Pathology** David G. Bostwick, Liang Cheng, 2008-01-01. With sweeping revisions throughout, the new edition of Urologic Surgical Pathology equips you to accurately diagnose specimens of the entire urinary tract and male reproductive system, plus the adrenal glands. Comprehensive in scope, this title begins with a look at normal anatomy and histology for each organ system, followed by discussions of the pathology of congenital anomalies, inflammations, non-neoplastic diseases, and neoplasia. Practical guidance in daily urological pathology, sign-out, and the latest recommended diagnostic approaches, with an emphasis on clinicopathologic and radiographic-pathologic correlations, makes this a true diagnostic decision-making medical reference. A consistent format enables you to locate critical information quickly, and more than 1600 high-quality illustrations, most in full color, make diagnosis even easier. A great update of a well-known textbook, Uropathology, colleagues find it useful. Reviewed by PathLab.org, June 2014. Rely on the practice-proven

experience of today's authorities to identify and diagnose with confidence Confirm your diagnostic suspicions by comparing your findings to more than 1600 color images and color graphics Quickly locate the specific information you need through an abundance of tables diagrams and flowcharts boxed lists of types and causes of diseases differential diagnosis characteristic features of diseases complications classifications and staging Access the fully searchable text and images online at Expert Consult Stay current with the latest information on differential diagnosis for all tumor types encountered in urological surgical pathology practice urologic tumor specimen handling and reporting guidelines new entities and updated classification schemes and newer immunohistochemical and genetic diagnostic methods Develop targeted therapy specific to a particular patient's problem based on key molecular aspects of disease especially in relevance to targeted therapy personalized medicine Provide the clinician with the most accurate diagnostic and prognostic indicators by incorporating the latest classification and staging systems in your reports Deepen your understanding of new diagnostic biomarkers and their utility in differential diagnosis Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the web site be discontinued

*The Kelalis-King-Belman Textbook of Clinical Pediatric Urology*, 2006-12-21 The most established internationally acclaimed textbook on the subject of pediatric urology this completely updated fifth edition is published on the thirtieth anniversary of its original launch Totally revised and with all new editors who are at the forefront of clinical and surgical research in pediatric urology The Kelalis King Belman Textbo

Equine Reproduction Angus O. McKinnon, Edward L. Squires, Wendy E. Vaala, Dickson D. Varner, 2011-07-05 Now in a much anticipated two volume new edition this gold standard reference stands as the most comprehensive and authoritative text on equine reproduction Serving theriogenologists practitioners and breeders worldwide as a one stop resource for the reproductive assessment and management of equine patients *Equine Reproduction Second Edition* provides detailed information on examination techniques breeding procedures pregnancy diagnosis and management reproductive tract diseases and surgery and foaling A companion website offers hundreds of images from the book in color For the Second Edition the stallion mare and foal sections have been thoroughly updated and revised to include the latest information on every subject New topics include discussion of nutritional and behavioral factors in the broodmare and stallion parentage testing fetal sexing and the health and management of older foals weanlings and yearlings Additionally this outstanding Second Edition features a new section on assisted reproductive techniques including detailed information on artificial insemination in vitro fertilization embryo transfer and technology

**Testis cancer: genes, environment, hormones** Alberto Ferlin, Carlo Foresta, 2015-10-29 Testicular cancer TC is the most common cancer in males aged 20-40 years with a worldwide incidence of 7.5 per 100,000

but the rates vary considerably between countries and ethnic groups and there is evidence also for an increasing incidence in last decades About 95% of all TCs are represented by testicular germ cell tumors TGCTs which include seminoma and non seminoma histological types It is generally assumed that the development of TGCT is under endocrine control In particular unbalanced androgen estrogen levels and or activity are believed to represent the key events for TGCT development and progression Furthermore recent evidence has suggested genetic association of TGCT with variations in genes involved in hypothalamic pituitary testicular axis and steroidogenic enzymes This recent evidence expands the current knowledge on the role of genetic contribution in testicular cancer susceptibility and supports the hypothesis that variations in hormone metabolism genes might change the hormonal environment implicated in testicular carcinogenesis Therefore hormonal carcinogenesis is an important and controversial area of current research in TGCT and further attention is given to genetic factors influencing hormone related cancer risk The genetic component to TGCT is in general strong In fact although environmental factors clearly contribute to TGCT development and probably to its increasing incidence in some geographical areas the proportion of TGCT susceptibility accounted for by the genetic effects is estimated at 25% TGCT has high familial risks compared with most other cancer types that are generally no more than two fold brothers of individuals with TGCT have an 8 to 12 fold increased risk of disease and sons of affected individuals have a 4 to 6 fold increased risk Despite this strong familial relative risk early results from linkage studies identified a limited relationship with genetic factors suggesting that TGCT is a genetically complex trait However more recently four genome wide association studies GWAS from the UK and USA have reported association of TGCTs with six new loci KITLG SPRY4 BAK1 DMRT1 TERT and ATF7IP The strongest association for TGCT susceptibility was found for SNPs in KITLG ligand for the membrane bound receptor tyrosine kinase KIT gene with a greater than 2.5 fold increased risk of disease per major allele which is the highest reported for any cancer to date These studies are being now replicated by other researches and attention is given to the relationship between these genetic variations TGCT risk and frequently associated anomalies of the reproductive tract such as cryptorchidism and infertility Finally over the past few decades TCGT research has focused also on external environmental causes acting mainly as endocrine disruptors of androgen and oestrogen pathways even during the foetal development of the testis It is well known that the testicular dysgenesis syndrome TDS hypothesis proposed ten years ago suggests that disturbed testicular development in fetal life may result in one or more of four disorders postnatally named cryptorchidism hypospadias poor semen quality and TGCT These four disorders are therefore considered as one clinical entity and are linked together by epidemiological and pathophysiological relations The relative contribution of genetics and environment in TGCT development and the interactions between endocrine disruptors and variations in genes involved in hormonal carcinogenesis is therefore another interesting area of research

**Atlas on the Human Testis** Davor Jezek, 2012-10-18 Atlas on the Human Testis Normal Morphology and Pathology presents histological illustrative material from paraffin and semi thin sections of the

human testis which are routinely used in the assessment of testicular morphology allowing an early detection of carcinoma in situ and more advanced pathological changes of the testicular parenchyma The early detection of cancer in situ is based on the careful morphological investigation of the biopsy and immunohistochemistry IHC Therefore this atlas contains detailed descriptions of IHC methods as well as modern molecular biological methods such as DNA microarrays and proteomics and advanced microscopy techniques related to the testicular biopsy Adequate evaluation of the testicular biopsy leads to high cure rates of testicular neoplasms which can be used as a basis to successfully treat infertility in men Atlas on the Human Testis Normal Morphology and Pathology is a valuable reference tool which will appeal to andrologists urologists

pathologists clinical embryologists as well as reproductive biology scientists **The Cryptorchid Testis** Thomas O. Abney,Brooks A. Keel,2020-08-11 Current knowledge concerning both morphological and functional cryptorchid related alterations in the various testicular compartments is summarized in this valuable new publication Damage to the germinal epithelium and resulting infertility in both humans and experimental animals as well as the degree of damage to the different stages of germ cell development is discussed In addition information concerning hormonal therapy and orchidopexy to reverse cryptorchid related damage is provided Morphological alterations in Sertoli and Leydig cells is discussed in terms of cellular hypertrophy and hyperplasia alterations in organelle number and characteristics as well as changes in cell cell junctional complexes Changes in Sertoli cell and Leydig cell function including gonadotropin binding steroidogenesis and other metabolic alterations is also outlined as well as the influence of altered testicular function on subsequent hypothalamic pituitary changes Vascular disruption the potential role of paracrine substances and direct thermal damage all of which may be responsible for the resulting detrimental changes in one or more testicular compartments are considered **Descent of the Testis** John M. Hutson,Jørgen Mogens Thorup,Spencer W. Beasley,2015-12-18 This book provides a state of the art overview of all aspects of testicular descent and cryptorchidism including the mechanisms of descent and the causes consequences diagnosis and treatment of undescended testis The advances in understanding that have been achieved over the past two decades are clearly explained covering the latest genetic information on the causes of normal and abnormal testicular descent the role of INSL3 in transabdominal migration and the evidence that a neurotransmitter released from the genitofemoral nerve mediates androgenic control of inguinoscrotal descent Exciting changes in the management of both congenital and acquired cryptorchidism such as the widespread use of laparoscopy for impalpable testes inside the abdominal cavity are fully described Evidence for the benefits of orchidopexy within the first year of life is reviewed and an individual chapter is also devoted to hormonal treatment Throughout the book due attention is given to ongoing controversies and divergences of opinion This new edition of Descent of the Testis will be a timely update and valuable reference for all who are involved in research into testicular descent and management of cryptorchidism

**Campbell-Walsh Urology** Alan J. Wein,Louis R. Kavoussi,Andrew C. Novick,Alan W. Partin,Craig A. Peters,2011-09-28

Since 1954 Campbell Walsh Urology has been internationally recognized as the pre eminent text in its field Edited by Alan J Wein MD PhD hon Louis R Kavoussi MD Alan W Partin MD PhD Craig A Peters MD FACS FAAP and the late Andrew C Novick MD it provides you with everything you need to know at every stage of your career covering the entire breadth and depth of urology from anatomy and physiology through the latest diagnostic approaches and medical and surgical treatments Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Be certain with expert dependable accurate answers for every stage of your career from the most comprehensive definitive text in the field Required reading for all urology residents Campbell Walsh Urology is the predominant reference used by The American Board of Urology for its board examination questions Visually grasp and better understand critical information with the aid of algorithms photographs radiographs and line drawings to illustrate essential concepts nuances of clinical presentation and technique and decision making Stay on the cutting edge with online updates Get trusted perspectives and insights from hundreds of well respected global contributors all of whom are at the top and the cutting edge of their respective fields Stay current with the latest knowledge and practices Brand new chapters and comprehensive updates throughout include new information on perioperative care in adults and children premature ejaculation retroperitoneal tumors nocturia and more Meticulously revised chapters cover the most recent advancements in robotic and laparoscopic bladder surgery open surgery of the kidney management of metastatic and invasive bladder cancer and many other hot topics Reference information quickly thanks to a new streamlined print format and easily searchable online access to supplemental figures tables additional references and expanded discussions as well as procedural videos and more at [www.expertconsult.com](http://www.expertconsult.com) Cryptorchidism

F. Hadziselimovic, 2012-12-06 Ferment a sign of progress in any scientific field has previously been lacking in the area of cryptorchidism where the only activity has been in improving operative methods Now however profound changes in the care of boys with cryptorchidism are being brought about ideas are arising from a fresh look at comparative anatomy and histological and experimental observations are being supplemented by clinical tests made possible by new hormonal agents The treatment of cryptorchidism begins with its recognition by the pediatrician who until now has shown little interest because of disappointing results from chorionic gonadotropin administration As for the surgeon his bent toward restoration of normal anatomical relationships has kept his attention focused on the development of better surgical techniques to bring the recalcitrant testis into the scrotum Both specialists have avoided the primordial question of why the testis did not descend properly If this were known they would treat the cause of cryptorchidism and not be satisfied merely with trying to correct its end result As one reads this book one sees that in most patients cryptorchidism is not caused by some anatomical structure blocking the way or by some deformity of the testis interfering with the transport mechanism Rather deficiencies in the hormonal environment of the fetus retard the developmental sequences essential to the normal differentiation and descent

of the testis The clinical solution is thus to provide the deficient substances

## Reviewing **The Testicular Descent In Human The Testicular Descent In Human**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**The Testicular Descent In Human The Testicular Descent In Human**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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