

WHEN ANATOMY SCAN

WHEN ANATOMY SCAN IS A PIVOTAL MOMENT IN PREGNANCY, OFFERING PARENTS THEIR FIRST DETAILED LOOK AT THEIR DEVELOPING BABY. TYPICALLY PERFORMED BETWEEN 18 TO 20 WEEKS OF GESTATION, THIS ULTRASOUND EXAMINATION ALLOWS HEALTHCARE PROVIDERS TO ASSESS THE BABY'S GROWTH, DEVELOPMENT, AND HEALTH. THIS ARTICLE WILL EXPLORE WHAT AN ANATOMY SCAN ENTAILS, ITS IMPORTANCE, WHEN TO SCHEDULE IT, WHAT TO EXPECT DURING THE PROCEDURE, AND HOW TO PREPARE FOR IT. UNDERSTANDING THE ANATOMY SCAN CAN ALLEVIATE ANXIETY AND PROVIDE VALUABLE INSIGHTS INTO THE PREGNANCY JOURNEY.

- WHAT IS AN ANATOMY SCAN?
- IMPORTANCE OF THE ANATOMY SCAN
- WHEN TO SCHEDULE AN ANATOMY SCAN
- WHAT TO EXPECT DURING THE ANATOMY SCAN
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WHAT IS AN ANATOMY SCAN?

AN ANATOMY SCAN, ALSO KNOWN AS A MID-PREGNANCY ULTRASOUND OR DETAILED ULTRASOUND, IS A SPECIALIZED IMAGING PROCEDURE CONDUCTED DURING PREGNANCY. THIS ULTRASOUND AIMS TO EXAMINE THE ANATOMY OF THE DEVELOPING FETUS IN GREAT DETAIL. IT IS DISTINCT FROM EARLIER ULTRASOUNDS, WHICH MAY FOCUS PRIMARILY ON CONFIRMING PREGNANCY AND ESTABLISHING A DUE DATE.

THE ANATOMY SCAN ALLOWS PRACTITIONERS TO VISUALIZE CRITICAL STRUCTURES AND ORGANS WITHIN THE FETUS, INCLUDING:

- HEART
- BRAIN
- SPINE
- KIDNEYS
- STOMACH
- LIMBS
- FACIAL FEATURES

THIS SCAN PLAYS A CRUCIAL ROLE IN IDENTIFYING ANY POTENTIAL ANOMALIES OR CONDITIONS THAT MAY NEED FURTHER INVESTIGATION OR MANAGEMENT.

IMPORTANCE OF THE ANATOMY SCAN

THE ANATOMY SCAN IS ESSENTIAL FOR SEVERAL REASONS. IT SERVES AS A COMPREHENSIVE CHECK-UP FOR THE FETUS, ENSURING THAT ALL ORGANS ARE DEVELOPING CORRECTLY. EARLY DETECTION OF ANY ABNORMALITIES CAN LEAD TO BETTER OUTCOMES, AS HEALTHCARE PROVIDERS CAN PREPARE PARENTS FOR ANY NECESSARY INTERVENTIONS OR SUPPORT.

SOME SPECIFIC BENEFITS OF THE ANATOMY SCAN INCLUDE:

- **DETECTION OF ANOMALIES:** THE SCAN CAN REVEAL CONGENITAL ANOMALIES, SUCH AS HEART DEFECTS OR SPINA BIFIDA, ALLOWING FOR EARLY CARE PLANNING.
- **GROWTH MONITORING:** IT ASSESSES THE BABY'S GROWTH AND DEVELOPMENT, ENSURING THAT THE FETUS IS ON TRACK FOR GESTATIONAL AGE.
- **PLACENTAL HEALTH:** THE SCAN CAN ALSO EVALUATE THE PLACENTA'S POSITION AND HEALTH, WHICH IS ESSENTIAL FOR A SAFE PREGNANCY.
- **GENDER REVEAL:** MANY PARENTS CHOOSE TO FIND OUT THE BABY'S SEX DURING THIS SCAN, ALTHOUGH THIS IS NOT ITS PRIMARY PURPOSE.

OVERALL, THE ANATOMY SCAN IS A VITAL PART OF PRENATAL CARE THAT PROVIDES REASSURANCE AND CRITICAL INFORMATION TO EXPECTING PARENTS.

WHEN TO SCHEDULE AN ANATOMY SCAN

THE OPTIMAL TIME TO SCHEDULE AN ANATOMY SCAN IS TYPICALLY BETWEEN 18 AND 20 WEEKS OF PREGNANCY. THIS TIMING ALLOWS FOR THE BEST VISUALIZATION OF THE FETAL ANATOMY, AS THE BABY IS LARGE ENOUGH TO SEE CLEARLY BUT NOT SO LARGE THAT IT BECOMES DIFFICULT TO GET ACCURATE MEASUREMENTS.

HEALTHCARE PROVIDERS MAY SCHEDULE THE SCAN AT DIFFERENT TIMES BASED ON SPECIFIC CIRCUMSTANCES:

- IF THE PREGNANCY IS HIGH-RISK, AN EARLIER SCAN MAY BE RECOMMENDED.
- SOME PROVIDERS MAY OFFER A FOLLOW-UP SCAN LATER IN THE PREGNANCY IF ANY CONCERNS ARISE DURING THE INITIAL ANATOMY SCAN.
- IN CASES OF MULTIPLE PREGNANCIES, ADDITIONAL ULTRASOUNDS MAY BE NECESSARY TO MONITOR EACH FETUS'S DEVELOPMENT.

IT'S ESSENTIAL FOR EXPECTANT PARENTS TO DISCUSS THEIR SPECIFIC CIRCUMSTANCES WITH THEIR HEALTHCARE PROVIDER TO DETERMINE THE BEST TIME FOR THE ANATOMY SCAN.

WHAT TO EXPECT DURING THE ANATOMY SCAN

DURING THE ANATOMY SCAN, EXPECTANT PARENTS WILL USUALLY BE TAKEN TO A QUIET, DIMLY LIT ROOM EQUIPPED WITH AN ULTRASOUND MACHINE. THE PROCEDURE TYPICALLY LASTS BETWEEN 30 MINUTES TO AN HOUR. HERE'S A STEP-BY-STEP OVERVIEW OF WHAT TO EXPECT:

1. **INITIAL SETUP:** THE TECHNICIAN WILL ASK THE MOTHER TO LIE DOWN ON AN EXAMINATION TABLE AND APPLY A GEL ON THE ABDOMEN TO HELP TRANSMIT SOUND WAVES.
2. **ULTRASOUND PROCEDURE:** A TRANSDUCER WILL BE MOVED ACROSS THE ABDOMEN TO CAPTURE IMAGES OF THE FETUS. PARENTS MAY SEE THE BABY MOVING ON THE SCREEN.

3. **MEASUREMENTS:** THE TECHNICIAN WILL TAKE VARIOUS MEASUREMENTS, INCLUDING THE BABY'S HEAD, ABDOMEN, AND LIMB LENGTHS, TO ASSESS GROWTH.
4. **IMAGE REVIEW:** THE TECHNICIAN WILL EXAMINE SPECIFIC ORGANS AND STRUCTURES, LOOKING FOR ANY ABNORMALITIES OR CONCERNS.
5. **DISCUSSION:** AFTER THE SCAN, THE TECHNICIAN MAY GIVE A BRIEF OVERVIEW OF THE FINDINGS, BUT THE DETAILED INTERPRETATION WILL BE PROVIDED BY THE HEALTHCARE PROVIDER DURING A FOLLOW-UP APPOINTMENT.

OVERALL, THE EXPERIENCE IS NON-INVASIVE AND GENERALLY SAFE FOR BOTH THE MOTHER AND THE FETUS.

PREPARING FOR THE ANATOMY SCAN

PREPARATION FOR THE ANATOMY SCAN CAN ENHANCE THE EXPERIENCE FOR EXPECTING PARENTS. HERE ARE SOME PRACTICAL TIPS:

- **HYDRATION:** IT IS OFTEN ADVISED TO DRINK PLENTY OF WATER BEFORE THE SCAN TO ENSURE A FULL BLADDER, WHICH CAN IMPROVE IMAGE QUALITY.
- **COMFORTABLE CLOTHING:** WEAR COMFORTABLE CLOTHING THAT ALLOWS EASY ACCESS TO THE ABDOMEN, SUCH AS A LOOSE-FITTING TOP.
- **BRING SUPPORT:** CONSIDER BRINGING A PARTNER OR A FAMILY MEMBER TO SHARE IN THE EXPERIENCE AND PROVIDE EMOTIONAL SUPPORT.
- **PREPARE QUESTIONS:** WRITE DOWN ANY QUESTIONS OR CONCERNS TO DISCUSS WITH YOUR HEALTHCARE PROVIDER AFTER THE SCAN.

BEING PREPARED CAN HELP ALLEVIATE ANY ANXIETY AND MAKE THE EXPERIENCE MORE ENJOYABLE FOR EVERYONE INVOLVED.

FREQUENTLY ASKED QUESTIONS

Q: WHAT HAPPENS IF AN ABNORMALITY IS DETECTED DURING THE ANATOMY SCAN?

A: IF AN ABNORMALITY IS DETECTED DURING THE ANATOMY SCAN, THE HEALTHCARE PROVIDER WILL DISCUSS THE FINDINGS WITH YOU AND MAY RECOMMEND FURTHER TESTING, SUCH AS ADDITIONAL ULTRASOUNDS OR GENETIC TESTING, TO GATHER MORE INFORMATION AND DETERMINE THE BEST COURSE OF ACTION.

Q: IS THE ANATOMY SCAN SAFE FOR MY BABY?

A: YES, THE ANATOMY SCAN IS CONSIDERED SAFE FOR BOTH THE MOTHER AND THE BABY. ULTRASOUND TECHNOLOGY HAS BEEN USED FOR MANY YEARS AND POSES NO KNOWN RISKS TO THE FETUS.

Q: CAN I FIND OUT THE GENDER OF MY BABY DURING THE ANATOMY SCAN?

A: YES, MANY PARENTS CHOOSE TO FIND OUT THE GENDER OF THEIR BABY DURING THE ANATOMY SCAN, PROVIDED THE BABY IS IN A POSITION THAT ALLOWS FOR CLEAR VISUALIZATION OF THE GENITALIA.

Q: HOW OFTEN ARE ANATOMY SCANS PERFORMED IN A SINGLE PREGNANCY?

A: TYPICALLY, THERE IS ONE ANATOMY SCAN PERFORMED DURING A SINGLE PREGNANCY, USUALLY BETWEEN 18 TO 20 WEEKS. HOWEVER, ADDITIONAL SCANS MAY BE REQUIRED IF THERE ARE CONCERNS OR COMPLICATIONS.

Q: WHAT SHOULD I DO IF I HAVE A FULL BLADDER AND FEEL UNCOMFORTABLE DURING THE SCAN?

A: IF YOU FEEL UNCOMFORTABLE DURING THE SCAN DUE TO A FULL BLADDER, INFORM THE TECHNICIAN. THEY CAN ASSIST YOU, AND IT MAY BE POSSIBLE TO EMPTY YOUR BLADDER BRIEFLY WHILE ENSURING THE SCAN CAN STILL PROCEED EFFECTIVELY.

Q: CAN I BRING MY CHILDREN TO THE ANATOMY SCAN?

A: IT IS GENERALLY ACCEPTABLE TO BRING CHILDREN TO THE ANATOMY SCAN, BUT IT MAY DEPEND ON THE FACILITY'S POLICY. IT'S ADVISABLE TO CHECK BEFOREHAND, AS THE ENVIRONMENT MAY BE MORE SUITABLE FOR ADULTS DUE TO THE FOCUS REQUIRED DURING THE PROCEDURE.

Q: WHAT IS THE DIFFERENCE BETWEEN AN ANATOMY SCAN AND A REGULAR ULTRASOUND?

A: THE ANATOMY SCAN IS A MORE DETAILED AND COMPREHENSIVE ULTRASOUND FOCUSED ON ASSESSING THE FETAL ANATOMY AND GROWTH. IN CONTRAST, A REGULAR ULTRASOUND MAY BE DONE FOR VARIOUS REASONS, INCLUDING CONFIRMING PREGNANCY OR MONITORING FETAL HEART RATE.

Q: HOW ACCURATE IS THE ANATOMY SCAN IN DETECTING ANOMALIES?

A: THE ANATOMY SCAN IS QUITE ACCURATE IN DETECTING MANY STRUCTURAL ANOMALIES, BUT NO TEST CAN GUARANTEE THE DETECTION OF EVERY POTENTIAL ISSUE. FOLLOW-UP TESTS MAY BE REQUIRED FOR A COMPLETE ASSESSMENT.

Q: WILL I RECEIVE IMMEDIATE RESULTS AFTER THE ANATOMY SCAN?

A: WHILE THE TECHNICIAN MAY PROVIDE A BRIEF OVERVIEW OF THE FINDINGS IMMEDIATELY AFTER THE SCAN, A DETAILED INTERPRETATION WILL BE GIVEN BY YOUR HEALTHCARE PROVIDER DURING THE FOLLOW-UP APPOINTMENT.

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when anatomy scan: Topics in Obstetric and Gynecologic Ultrasound, An Issue of Ultrasound Clinics Phyllis Glanc, 2012-01-28 The application of ultrasound technology to obstetric and gynecologic issues figures as one of the staples of this imaging modality. This issue of Ultrasound Clinics features the following articles: Demystifying Ovarian Cysts; Fetal Measurements and Anatomy; Fetal Echocardiography; Management of Threatened Miscarriage; Gestational Trophoblastic Diseases; Sonographic Depiction of Ovarian And Uterine Vasculature; Postmenopausal

Endometrial Bleeding; and Pediatric Gynecologic Ultrasound. Acute Right Lower Quadrant Pain, and Early Anatomy Ultrasound.

when anatomy scan: Fetal Medicine Charles H. Rodeck, Martin J. Whittle, 2009-01-01 Fetal medicine has emerged as a separate subspecialty over the last 30 years as a result of major advances in a number of areas, in particular ultrasound imaging, cytogenetics, molecular biology and biochemistry. The widespread use of antenatal screening and diagnostic tests has led to an increased need for obstetricians to have knowledge and skills in fetal medicine. This book provides the information that underpins training programmes in fetal medicine and integrates science and clinical disciplines in a practical and useful way. Clinical sections include: the latest advances in prenatal screening; a systems-based presentation of the diagnosis and management of fetal malformations; complete coverage of common and rare fetal conditions including growth restriction, endocrine and platelet disorders, early pregnancy loss, and twins/multiple pregnancy. More focus on important basic-science concepts, such as maternofetal cell trafficking, and the relevance to clinical management.

when anatomy scan: *Midwife's Guide to Antenatal Investigations* Amanda Sullivan, Lucy Kean, Alison Cryer, 2006-07-28 This book serves as a guide to a comprehensive range of diagnostic screenings and tests used during pregnancy. It links routine antenatal care with specialist investigations, describing when follow up is required and how to interpret the results. Designed for ease of reference, this resource helps midwives make informed, evidence-based clinical decisions. It also provides guidance about how best to discuss sensitive issues with mothers and how to provide support to parents receiving bad news. This book is an essential resource for midwives and other health professionals involved in delivering antenatal care to women and their families. Expert contributors ensure that the information is reliable and up-to-date, and the easy-to-use format guides practitioners through each procedure, interpretation of results, and appropriate interventions. The only book of its kind, developed to provide midwives with a comprehensive guide to antenatal investigations in an accessible format. Includes a range of clinical scenarios and considers the parents' point of view, which brings the tests to life and helps midwives understand the clinical application and impact of investigations. A chapter written by the national charity ARC (Antenatal Results and Choices) relates first-hand accounts from parents whose newborns have been diagnosed with an abnormality, providing insight into how best to provide sensitive care to parents facing difficult situations. Extensive illustrations, diagrams, summary tables and ultrasound scan images make the information in the book clear and understandable. Best practice guidance from National Screening Committee (NSC) are provided to ensure all practitioners are aware of the NSC policy. Clinical guidance is supported by explanations of common and specialist terminology and developments in technology. The fundamental principles underlying genetic and chromosomal testing are described. The historical and cultural aspects of antenatal investigations are discussed, as well as the potential impact of these technologies on the future role of the midwife.

when anatomy scan: **Creasy-Resnik's Study Guide for Maternal Fetal Medicine E-Book** Charles J. Lockwood, Thomas Moore, Joshua Copel, Robert M Silver, Robert Resnik, Judette Louis, Lorraine Dugoff, 2023-04-15 Comprehensive in scope, easy to use, and aligned to the gold standard text in the field, Creasy-Resnik's Study Guide for Maternal-Fetal Medicine is a highly effective study tool. Questions and answers written by Creasy-Resnik authors prepare you and assess your knowledge. - Includes hundreds of questions and answers written by renowned experts in obstetrics, gynecology, and perinatology, with rationales linked directly to Creasy and Resnik's Maternal-Fetal Medicine: Principles and Practice, 9th Edition. - Covers all topics and content in the core text, including maternal and fetal viral infections, sexually transmitted disease, and current information on genetics—all reflecting the latest evidence-based guidelines and research.

when anatomy scan: **MRCOG Part 1: High-Yield MCQs & Exam Prep Guide** MRCOG Part 1: High-Yield MCQs & Exam Prep Guide, 2025-07-03 This comprehensive book is an essential resource for candidates preparing for the MRCOG Part 1 examination. Covering an extensive range of topics, it provides an in-depth collection of questions and answers designed to reinforce

understanding of key concepts in obstetrics and gynecology. Structured into multiple domains, the book systematically addresses maternal anatomical, physiological, and endocrine adaptations in pregnancy, fetal development, pathology of major organ systems, genetic principles, and perinatal outcomes. It also includes guidance on antenatal screening, ultrasound findings, and the impact of various maternal and social factors on pregnancy. With a clear and organized format, this book serves as both a study guide and a question bank, ensuring candidates gain the knowledge and confidence needed to excel in the MRCOG Part 1 examination. Whether used for self-assessment or structured revision, this resource is invaluable for aspiring obstetricians and gynecologists.

when anatomy scan: Obstetric Ultrasound: A Practical Guide Pasquale De Marco, 2025-03-08
Obstetric Ultrasound: A Practical Guide provides a comprehensive and up-to-date overview of the use of ultrasound in obstetrics. Written by experienced sonographers and doctors, this book is designed to equip healthcare professionals with the knowledge and skills necessary to perform and interpret ultrasound examinations with confidence. With its focus on practical application, this book takes a step-by-step approach to the essentials of obstetric ultrasound. It covers everything from basic principles and techniques to advanced applications and specialized procedures, with a wealth of real-world examples, high-quality images, and case studies to illustrate the clinical relevance of ultrasound findings. Key features of the book include: * Step-by-step guidance on performing and interpreting ultrasound examinations, from basic scans to more complex procedures * Coverage of all aspects of obstetric ultrasound, including early pregnancy assessment, fetal growth monitoring, placental evaluation, and fetal Doppler studies * In-depth discussion of advanced applications such as fetal echocardiography, fetal neurology, and 3D/4D ultrasound * Examination of the use of ultrasound in high-risk pregnancies, labor and delivery, and gynecology * Up-to-date information on quality assurance and ethical considerations in obstetric ultrasound Whether you are a sonographer, doctor, midwife, or other healthcare professional involved in obstetric care, **Obstetric Ultrasound: A Practical Guide** is your essential companion. With its comprehensive coverage, user-friendly approach, and focus on practical application, this book will provide you with the knowledge and skills you need to deliver exceptional patient care. This book is an indispensable resource for healthcare professionals seeking to expand their knowledge and skills in obstetric ultrasound. With its clear and accessible writing style, it is also an excellent choice for students and trainees in the field. If you like this book, write a review!

when anatomy scan: Echocardiographic Anatomy in the Fetus Enrico Chiappa, Andrew C. Cook, Gianni Botta, Norman H. Silverman, 2009-10-29 Echocardiographic diagnosis is based on moving images. Recent advances in ultrasound systems have brought innovative applications into the clinical field and can be integrated into powerful multimedia presentations for teaching. The CD-ROM accompanying the book presents morphological pictures from tomographic sections of the whole fetal body, combined with high quality dynamic echocardiographic images of normal fetuses and of some of the most common congenital heart defects.

when anatomy scan: Obstetric Imaging: Fetal Diagnosis and Care - E-Book Joshua Copel, 2025-04-09 Written and edited by internationally recognized maternal-fetal imaging experts, Obstetric Imaging: Fetal Diagnosis and Care, Third Edition, provides up-to-date, authoritative guidelines for more than 200 obstetric conditions and procedures, keeping you at the forefront of this fast-changing field. You'll find comprehensive coverage of basic and advanced techniques, normal and abnormal findings, new technologies, and all available modalities. Highly regarded by both practitioners and trainees, it's an ideal resource for maternal-fetal medicine specialists, obstetricians, radiologists, midwives, nurse practitioners and sonographers. - Covers the extensive and ongoing advances in maternal and fetal imaging in a highly templated, bulleted format for quicker access to common and uncommon findings. - Provides detailed, expert guidance on optimizing diagnostic accuracy from ultrasound, 3D ultrasound, Doppler, MRI, elastography, image-guided interventions, and more. - Contains new chapters on amyoplasia/arthrogryposis; maternal structures including the cervix, fibroids, and ovarian and other adnexal masses; complications due to COVID-19; and artificial intelligence approaches in obstetric imaging. - Offers

new and updated coverage of the genetic basis of fetal diseases, as well as new diagnoses and management protocols, expanded differential diagnoses, and updated guidelines and practice standards. - Features nearly 1,500 images, including 400 in full color, and 150+ videos that demonstrate imaging techniques as well as guidance on interpreting results. - Provides differential imaging approaches and interpretation guidelines with extensive comparative image panels that represent every modality and every type of obstetric imaging. - Includes must-know information in easy-to-spot boxes: Classic Signs, What the Referring Physician Needs to Know, and Key Points that offer expert tips from top experts in the field. - Any additional digital ancillary content may publish up to 6 weeks following the publication date.

when anatomy scan: First-Trimester Ultrasound Jacques S. Abramowicz, Ryan E. Longman, 2023-04-13 This second edition offers a unique and focused study of the use of ultrasound during the first trimester, a critical time in a fetus' development. It includes basic examination guidelines as well as cutting-edge ultrasound modalities, including Doppler and three-dimensional ultrasound, for the period immediately preceding conception through early embryology. Fully updated, the text begins with a discussion of the safety and efficacy of diagnostic ultrasound and the use of this modality for the evaluation and treatment of infertility. Recognized experts in the field then explore conditions that may interfere with normal conception or development, including maternal diseases that would benefit from early scanning, elements of teratology, multiple gestations, ectopic pregnancy, gestational trophoblastic disease, fetal anomalies and invasive procedures in the first trimester. This edition includes seven new chapters focusing on the imaging of fetal development, including chapters on the first trimester fetal brain, genitourinary tract, and diagnosis of fetal genetic syndromes. Numerous illustrations, figures, and online videos serve as aides for understanding key concepts. First-Trimester Ultrasound, 2e is a valuable resource for many, in or after training, in obstetrics and gynecology, radiology, emergency medicine, family medicine and genetics.

when anatomy scan: Ultrasonography in Gynecology and Early Pregnancy, An Issue of Obstetrics and Gynecology Clinics Larry D. Platt, Christina S. Han, 2019-11-12 In consultation with Dr. William Rayburn, Consulting Editor, Drs. Larry Platt and Christina Han have put together expert authors to provide a current update on ultrasound in gynecology and pregnancy. The clinical review articles have high utility and include the following topics: Normal pelvic anatomy; Ultrasound in evaluation of pelvic pain; Abnormal uterus and uterine bleeding; Abnormal ovaries and tubes; Methods of assessing ovarian masses: IOTA approach; Imaging in endometriosis; Assessment of IUD; Ultrasound evaluation in infertility; Ultrasound in pelvic floor dysfunction; Non-gynecologic findings in the pelvis; Three-D imaging in gynecology; Pregnancy of unknown location; Cesarean scar ectopic; Early pregnancy evaluation of anomalies; and Coding and legal issues in gynecologic ultrasound. Readers will come away with the information they need to provide current, authoritative care to their patients and to improve outcomes.

when anatomy scan: Fetal Medicine E-Book Pranav P Pandya, Ronald Wapner, Dick Oepkes, Neil Sebire, 2019-02-09 Covering pertinent basic science and offering today's most authoritative guidance on clinical management, Fetal Medicine, 3rd Edition, is a must-have resource for obstetricians and other healthcare professionals involved in care of the fetus. An international team of expert contributors delivers the knowledge and background you need to effectively diagnose and treat fetal disorders - everything from prenatal screening and diagnostic tests to common and rare prenatal conditions, early pregnancy loss, ethical issues, and much more. - Focuses on fetal medicine throughout, bringing you today's most reliable information in both basic science and clinical topics. - Offers updated information from cover to cover, including new coverage of genetics, embryology, and clinical management. - Features new self-assessment questions and new images throughout - for a total of nearly 1,000 photographs and line drawings, as well as more than 150 quick-reference tables. - Details fast-changing developments in fetal medicine, including advances in ultrasound imaging, cytogenetics, molecular biology, and biochemistry. - Helps you learn and retrieve complex information quickly thanks to succinct, highly structured text; key points at the beginning of each

chapter; and concise chapter summaries. New editor team – 3 new editors with an international approach – they will select qualified authors who can discuss the basic science as well as the clinical aspects of perinatal problems Updated knowledge content – major areas of change are non-invasive prenatal testing (NIPT) and genetic testing – Ron Wapner is one of the leaders in these fields Expert Consult access – individual electronic access for the first time 4-color design – current design is b&w so will update with new colors and colorize the drawings.

when anatomy scan: *Obstetrics and Gynaecological Ultrasound for Beginners* Archana Baser, Hena Dhingra, Alia K Zaidi, Anshu Baser, Varsha Mahajan, 2022-12-25 Section 1: All the technicalities Basics of ultrasound Know your product - All the ultrasound machine hacks you need to know Section 2: Obstetric ultrasound Early pregnancy and abnormalities First trimester anomaly screening The second trimester anomaly scan - What is normal? Abnormalities on second trimester ultrasound Borderline findings on ultrasound Normal and abnormal placentation Growth and biometry Fetal growth restriction Amniotic fluid and its abnormalities Cervical length assessment Multiple gestation All about dopplers Ultrasound guided procedures Role of 3D/4D in obstetrics Section 3: Gynaecology Female anatomy on ultrasound Uterine lesions and abnormalities Overview of the ovaries Adnexal pathologies 3D 4D in gynaecology Ultrasound in reproductive medicine

when anatomy scan: Obstetrics & Gynecology For Pgs Vol 1 (3 Edn , 2009

when anatomy scan: Conversations About Neuroscience Howard Burton, 2020-10-01

Conversations About Neuroscience include the following five carefully-edited Ideas Roadshow Conversations featuring leading neuroscientists with a detailed preface highlighting the connections between the different books: I. Constructing Our World: The Brain's-Eye View - A conversation with Lisa Feldman Barrett. This book is based on an in-depth filmed conversation between Howard Burton and Lisa Feldman Barrett, University Distinguished Professor in Psychology at Northeastern University. This extensive conversations covers topics such as Lisa's winding career path from pre-med to clinical psychology to an academic career in neuroscience and her research on how the brain works and the development of her theory of emotion: every moment of our life, our brain is anticipating and making sense of sensory inputs from its environment—the combination of the internal environment of the body and the external environment—and our brain uses conceptual knowledge to do that. II. Knowing One's Place: Space and the Brain - A Conversation with Jennifer Groh. This book is based on an in-depth, filmed conversation between Howard Burton and Jennifer Groh, Professor of Psychology and Neuroscience at Duke University. After an inspiring story about how she became interested in neuroscience, this extensive conversation examines Jennifer Groh's extensive research on how the brain combines various streams of sensory input to determine where things are, together with the corresponding implications for a wide range of issues, from neuroplasticity to our predictive brain to evolutionary mechanisms. III. Vision and Perception - A Conversation with Kalanit Grill-Spector. This book is based on an in-depth filmed conversation between Howard Burton and Kalanit Grill-Spector, Professor in Psychology and the Stanford Neurosciences Institute at Stanford University. Kalanit Grill-Spector's is a vision specialist with a background in computational neuroscience. Her research examines how the brain processes visual information and perceives it. This extensive conversation explores how functional imaging techniques are used to visualize the brain in action and how it functions to recognize people, objects and places. Kalanit also discusses how the anatomical and functional properties of the brain change from infancy to childhood through adulthood, and how this development is related to improved visual recognition abilities. IV. Investigating Intelligence - A conversation with John Duncan. This book is based on an in-depth filmed conversation between Howard Burton and neuroscientist John Duncan, University of Cambridge, and examines fascinating questions in neuroscience such as: What is intelligence and what does IQ testing tell us? Can intelligence be measured and improved? What role does our frontal lobe play in executive control? John Duncan has rigorously investigated these types of issues for years and this conversation covers all those questions plus topics such as impairments following brain damage, functional brain imaging, and the brain basis for attention, intelligence and cognitive control. V. Minds and Machines - A conversation with Miguel Nicolelis.

This book is based on an in-depth filmed conversation between Howard Burton and Miguel Nicolelis, Professor of Neurobiology, Neurology, Neurosurgery, Biomedical Engineering, Psychology and Neuroscience and Orthopaedic Surgery and Co-Director of the Center for Neuroengineering at Duke University. This thought-provoking conversation dives into Miguel Nicolelis' extensive and important research for over 20 years now and how he has been blurring the line between science fiction and science fact, developing increasingly sophisticated ways of harnessing the thoughts of rats, monkeys and humans to drive mechanical devices in the rapidly emerging field of brain-machine interfaces. As he continues to explore how best to apply this fascinating technology to liberate paralysis victims and Parkinson's sufferers from their neurological constraints, Nicolelis remains focused on challenging conventional wisdom of what the brain is and how it works, consistently probing the evolving frontier between body and mind. Howard Burton is the creator and host of Ideas Roadshow and was the Founding Executive Director of Perimeter Institute for Theoretical Physics.

when anatomy scan: Vision and Perception Howard Burton, 2020-10-01 This book is based on an in-depth filmed conversation between Howard Burton and Kalanit Grill-Spector, Professor in Psychology and the Stanford Neurosciences Institute at Stanford University. Kalanit Grill-Spector's is a vision specialist with a background in computational neuroscience. Her research examines how the brain processes visual information and perceives it. This extensive conversation explores how functional imaging techniques are used to visualize the brain in action and how it functions to recognize people, objects and places. Kalanit also discusses how the anatomical and functional properties of the brain change from infancy to childhood through adulthood, and how this development is related to improved visual recognition abilities. Further topics include Kalanit Grill-Spector's discovery of a particular face-selective region in the brain, her groundbreaking research related to the neural processing of this particular region and the fascinating experiments that she has been involved with that suggest that there is indeed a strong causal link between that region and our facial recognition perception. This carefully-edited book includes an introduction, Facing Facts, and questions for discussion at the end of each chapter: I. Neuroimaging - A transformative technology II. Discovering Her Passion - A glimpse of the joy of vision III. Vision Unveiled - Our current understanding IV. Experimental Evidence - Many discoveries; even more to do V. A Startling Result - Stumbling upon specialized hardware VI. Neuroplasticity - Assessing flexibility VII. The Road Ahead - Better measurements, better models, deeper understanding About Ideas Roadshow Conversations: Presented in an accessible, conversational format, Ideas Roadshow books not only explore frontline academic research but also reveal the inspirations and personal journeys behind the research.

when anatomy scan: Fetal and Neonatal Pathology Jean W. Keeling, T.Yee Khong, 2009-07-11 The fourth edition of the classic reference in the field of fetal and neonatal pathology, this revised and updated book retains the overall format of previous editions, presenting the same practical approach to the examination of both fetuses and perinatal deaths. It provides essential clinical and pathophysiological information and discusses the pathogenesis of abnormalities as a basis for appropriate methods of investigation. While primarily addressing the morbid anatomist and histopathologist, it is also a valuable resource for obstetricians, neonatologists and paediatricians.

when anatomy scan: Handbook of Early Pregnancy Care Thomas H. Bourne, 2006-10-17 Problems in early pregnancy are among the most common conditions in gynecology and - with management becoming less invasive and depending more on accurate ultrasound and a good understanding of serum biochemistry - many countries now recommend that all maternity units have an early pregnancy section dedicated to managing these conditions. In additi

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