

WHAT DOES ANATOMY SCAN LOOK FOR

WHAT DOES ANATOMY SCAN LOOK FOR IS A CRUCIAL QUESTION FOR EXPECTANT PARENTS SEEKING TO UNDERSTAND ONE OF THE MOST IMPORTANT ULTRASOUND EXAMINATIONS DURING PREGNANCY. THE ANATOMY SCAN, ALSO KNOWN AS THE MID-PREGNANCY OR LEVEL 2 ULTRASOUND, TYPICALLY TAKES PLACE BETWEEN 18 AND 22 WEEKS OF GESTATION. THIS DETAILED IMAGING STUDY AIMS TO ASSESS THE DEVELOPMENT OF THE FETUS, ENSURING THAT ALL STRUCTURES ARE FORMING CORRECTLY. IN THIS ARTICLE, WE WILL EXPLORE WHAT AN ANATOMY SCAN LOOKS FOR, INCLUDING THE SPECIFIC MEASUREMENTS TAKEN, THE ORGANS EXAMINED, AND THE IMPORTANCE OF THIS SCAN IN PRENATAL CARE. ADDITIONALLY, WE WILL DISCUSS WHAT PARENTS CAN EXPECT DURING THE PROCEDURE AND THE POTENTIAL OUTCOMES.

- WHAT IS AN ANATOMY SCAN?
- WHAT DOES AN ANATOMY SCAN MEASURE?
- KEY ORGANS AND STRUCTURES EXAMINED
- IMPORTANCE OF THE ANATOMY SCAN
- WHAT TO EXPECT DURING THE ANATOMY SCAN
- UNDERSTANDING THE RESULTS OF AN ANATOMY SCAN

WHAT IS AN ANATOMY SCAN?

AN ANATOMY SCAN IS A SPECIALIZED ULTRASOUND PERFORMED DURING THE SECOND TRIMESTER OF PREGNANCY. THIS SCAN PROVIDES DETAILED IMAGES OF THE DEVELOPING FETUS, ALLOWING HEALTHCARE PROVIDERS TO ASSESS GROWTH AND DEVELOPMENT ACCURATELY. IT IS OFTEN CONSIDERED ONE OF THE MOST CRITICAL ULTRASOUNDS DURING PREGNANCY, AS IT CAN REVEAL ESSENTIAL INFORMATION ABOUT THE BABY'S HEALTH AND DETECT POTENTIAL ABNORMALITIES. THE ANATOMY SCAN IS TYPICALLY PERFORMED BY A TRAINED SONOGRAPHER AND REVIEWED BY A PHYSICIAN, ENSURING THAT ALL FINDINGS ARE CAREFULLY EVALUATED.

TIMING OF THE ANATOMY SCAN

THE ANATOMY SCAN IS USUALLY SCHEDULED BETWEEN 18 AND 22 WEEKS OF GESTATION. THIS TIMING IS IDEAL BECAUSE THE FETUS IS LARGE ENOUGH TO BE CLEARLY VISUALIZED, YET STILL SMALL ENOUGH TO ALLOW FOR THOROUGH EXAMINATION OF VARIOUS ANATOMICAL STRUCTURES. CONDUCTING THE SCAN WITHIN THIS TIME FRAME ENSURES THAT ANY POTENTIAL ISSUES CAN BE ADDRESSED EARLY IN THE PREGNANCY, PROVIDING THE BEST POSSIBLE OUTCOMES FOR BOTH THE MOTHER AND THE BABY.

WHAT DOES AN ANATOMY SCAN MEASURE?

DURING AN ANATOMY SCAN, SEVERAL KEY MEASUREMENTS AND EVALUATIONS ARE PERFORMED TO ASSESS THE FETUS'S GROWTH AND DEVELOPMENT ACCURATELY. THESE MEASUREMENTS HELP HEALTHCARE PROVIDERS ENSURE THAT THE BABY IS DEVELOPING AS EXPECTED AND CAN IDENTIFY ANY AREAS OF CONCERN.

MEASUREMENTS TAKEN DURING THE ANATOMY SCAN

SOME OF THE CRITICAL MEASUREMENTS TAKEN DURING THE ANATOMY SCAN INCLUDE:

- **CROWN-RUMP LENGTH (CRL):** THIS MEASUREMENT ASSESSES THE LENGTH OF THE FETUS FROM THE TOP OF THE HEAD TO THE BOTTOM OF THE BUTTOCKS.
- **BIPARIETAL DIAMETER (BPD):** THIS MEASURES THE WIDTH OF THE HEAD FROM ONE SIDE TO THE OTHER.
- **HEAD CIRCUMFERENCE (HC):** THIS MEASUREMENT ASSESSES THE OVERALL SIZE OF THE BABY'S HEAD.
- **ABDOMINAL CIRCUMFERENCE (AC):** THIS HELPS EVALUATE THE GROWTH OF THE BABY'S ABDOMEN, PROVIDING INSIGHT INTO OVERALL HEALTH AND NUTRITION.
- **FEMUR LENGTH (FL):** THIS MEASURES THE LENGTH OF THE THIGH BONE, WHICH IS CRUCIAL FOR ASSESSING FETAL GROWTH.

KEY ORGANS AND STRUCTURES EXAMINED

IN ADDITION TO TAKING MEASUREMENTS, THE ANATOMY SCAN INVOLVES A DETAILED EXAMINATION OF VARIOUS ORGANS AND STRUCTURES TO ENSURE THEY ARE DEVELOPING NORMALLY. THE PRIMARY AREAS OF FOCUS INCLUDE:

FETAL HEART

THE ANATOMY SCAN EVALUATES THE FETAL HEART'S STRUCTURE AND FUNCTION, CHECKING FOR ANY CONGENITAL HEART DEFECTS. THE SONOGRAPHER WILL EXAMINE THE HEART'S CHAMBERS, VALVES, AND BLOOD FLOW TO ENSURE EVERYTHING IS FUNCTIONING CORRECTLY.

BRAIN AND SPINE

THE DEVELOPMENT OF THE BRAIN AND SPINE IS CLOSELY EXAMINED DURING THE ANATOMY SCAN. THE SONOGRAPHER WILL LOOK FOR ANY SIGNS OF ABNORMALITIES, SUCH AS NEURAL TUBE DEFECTS, WHICH CAN OCCUR IF THE SPINE DOES NOT CLOSE PROPERLY DURING DEVELOPMENT.

LIMBS

THE ANATOMY SCAN ASSESSES THE DEVELOPMENT OF THE FETUS'S ARMS AND LEGS, ENSURING THAT ALL BONES ARE PRESENT AND PROPERLY FORMED. ANY ABNORMALITIES, SUCH AS LIMB REDUCTION OR MALFORMATIONS, CAN BE DETECTED DURING THIS EXAMINATION.

ABDOMINAL ORGANS

ORGANS SUCH AS THE STOMACH, KIDNEYS, AND BLADDER ARE ALSO EVALUATED. THE SONOGRAPHER WILL CHECK FOR PROPER PLACEMENT AND FUNCTION, ENSURING THAT THE FETUS'S ABDOMINAL ORGANS ARE DEVELOPING AS EXPECTED.

PLACENTA AND AMNIOTIC FLUID

THE ANATOMY SCAN INCLUDES AN ASSESSMENT OF THE PLACENTA'S POSITION AND HEALTH, AS WELL AS THE AMOUNT OF AMNIOTIC FLUID SURROUNDING THE FETUS. ABNORMALITIES IN THESE AREAS CAN LEAD TO COMPLICATIONS DURING PREGNANCY.

IMPORTANCE OF THE ANATOMY SCAN

THE ANATOMY SCAN PLAYS A VITAL ROLE IN PRENATAL CARE FOR SEVERAL REASONS. IT SERVES AS A COMPREHENSIVE ASSESSMENT OF FETAL HEALTH, ALLOWING HEALTHCARE PROVIDERS TO IDENTIFY ANY POTENTIAL ISSUES EARLY IN THE PREGNANCY. EARLY DETECTION OF ABNORMALITIES CAN SIGNIFICANTLY IMPROVE OUTCOMES AND PROVIDE PARENTS WITH ESSENTIAL INFORMATION REGARDING THEIR BABY'S HEALTH. IF ANY CONCERNS ARE IDENTIFIED, HEALTHCARE PROVIDERS CAN DISCUSS FURTHER TESTING OR MONITORING OPTIONS TO ADDRESS THESE ISSUES.

EMOTIONAL PREPAREDNESS

FOR EXPECTANT PARENTS, THE ANATOMY SCAN CAN HELP PREPARE THEM EMOTIONALLY FOR THE ARRIVAL OF THEIR BABY. KNOWING THE SEX OF THE BABY, IF DESIRED, CAN HELP PARENTS PLAN AND BOND WITH THEIR CHILD EVEN BEFORE BIRTH. ADDITIONALLY, UNDERSTANDING POTENTIAL HEALTH ISSUES CAN ALLOW PARENTS TO SEEK SUPPORT OR RESOURCES AS NEEDED.

WHAT TO EXPECT DURING THE ANATOMY SCAN

UNDERSTANDING WHAT TO EXPECT DURING THE ANATOMY SCAN CAN HELP ALLEVIATE ANY ANXIETY EXPECTANT PARENTS MAY HAVE. THE PROCEDURE TYPICALLY LASTS BETWEEN 30 TO 60 MINUTES AND INVOLVES THE FOLLOWING STEPS:

PREPARING FOR THE SCAN

BEFORE THE SCAN, PARENTS MAY BE ADVISED TO DRINK WATER TO FILL THEIR BLADDER, WHICH CAN HELP IMPROVE IMAGE QUALITY. THEY SHOULD ALSO WEAR COMFORTABLE CLOTHING AND BE PREPARED TO LIE ON AN EXAMINATION TABLE.

DURING THE SCAN

DURING THE PROCEDURE, THE SONOGRAPHER WILL APPLY A GEL TO THE MOTHER'S ABDOMEN AND USE A TRANSDUCER TO CAPTURE IMAGES OF THE FETUS. THE SONOGRAPHER WILL TAKE VARIOUS MEASUREMENTS, EXAMINE ORGANS, AND MAY ASK THE PARENTS QUESTIONS ABOUT THEIR PREGNANCY. PARENTS CAN OFTEN SEE IMAGES OF THEIR BABY ON A MONITOR AND MAY EVEN HEAR THE HEARTBEAT.

AFTER THE SCAN

ONCE THE SCAN IS COMPLETE, THE SONOGRAPHER WILL SHARE INITIAL FINDINGS WITH THE PARENTS. A PHYSICIAN WILL REVIEW THE IMAGES AND MEASUREMENTS, AND A REPORT WILL BE GENERATED FOR THE PARENTS' HEALTHCARE PROVIDER. IF ANY CONCERNS ARE IDENTIFIED, THE HEALTHCARE PROVIDER WILL DISCUSS THE NEXT STEPS.

UNDERSTANDING THE RESULTS OF AN ANATOMY SCAN

AFTER THE ANATOMY SCAN, PARENTS MAY HAVE QUESTIONS REGARDING THE RESULTS. THE INTERPRETATION OF THE SCAN IS CRUCIAL FOR UNDERSTANDING THE FETUS'S HEALTH AND DEVELOPMENT.

NORMAL RESULTS

A NORMAL ANATOMY SCAN INDICATES THAT THE FETUS IS DEVELOPING APPROPRIATELY, WITH NO SIGNIFICANT ABNORMALITIES DETECTED. PARENTS CAN EXPECT TO RECEIVE REASSURANCE ABOUT THEIR BABY'S HEALTH AND DEVELOPMENT.

ABNORMAL RESULTS

IF THE SCAN REVEALS ANY ABNORMALITIES, HEALTHCARE PROVIDERS WILL DISCUSS THESE FINDINGS IN DETAIL. DEPENDING ON THE NATURE OF THE ISSUE, FURTHER TESTING, SUCH AS GENETIC COUNSELING OR ADDITIONAL ULTRASOUNDS, MAY BE RECOMMENDED TO GATHER MORE INFORMATION.

FOLLOW-UP CARE

IN CASES WHERE ABNORMALITIES ARE DETECTED, A CARE PLAN WILL BE ESTABLISHED TO MONITOR THE FETUS'S HEALTH THROUGHOUT THE REMAINDER OF THE PREGNANCY. THIS PLAN MAY INVOLVE MORE FREQUENT ULTRASOUNDS OR CONSULTATIONS WITH SPECIALISTS.

EMOTIONAL SUPPORT

REGARDLESS OF THE OUTCOME, EMOTIONAL SUPPORT IS ESSENTIAL FOR PARENTS DURING THIS TIME. HEALTHCARE PROVIDERS CAN RECOMMEND COUNSELING OR SUPPORT GROUPS THAT CAN HELP PARENTS NAVIGATE THEIR FEELINGS AND CONCERNS.

CONCLUSION

IN SUMMARY, THE ANATOMY SCAN IS A CRITICAL COMPONENT OF PRENATAL CARE THAT PROVIDES VALUABLE INSIGHTS INTO FETAL DEVELOPMENT. THROUGH DETAILED MEASUREMENTS AND EXAMINATIONS OF KEY STRUCTURES, HEALTHCARE PROVIDERS CAN IDENTIFY POTENTIAL ISSUES EARLY, ALLOWING FOR TIMELY INTERVENTIONS AND SUPPORT. EXPECTANT PARENTS CAN PREPARE THEMSELVES FOR THE ANATOMY SCAN BY UNDERSTANDING WHAT TO EXPECT DURING THE PROCEDURE AND WHAT THE RESULTS MAY INDICATE. THIS COMPREHENSIVE UNDERSTANDING OF THE ANATOMY SCAN EMPOWERS PARENTS WITH KNOWLEDGE ABOUT THEIR BABY'S HEALTH AND DEVELOPMENT.

Q: WHAT IS THE PRIMARY PURPOSE OF AN ANATOMY SCAN?

A: THE PRIMARY PURPOSE OF AN ANATOMY SCAN IS TO ASSESS THE DEVELOPMENT OF THE FETUS, CHECKING FOR ANY STRUCTURAL ABNORMALITIES AND ENSURING THAT ALL ORGANS AND SYSTEMS ARE FUNCTIONING CORRECTLY.

Q: WHEN IS THE BEST TIME TO HAVE AN ANATOMY SCAN?

A: THE BEST TIME TO HAVE AN ANATOMY SCAN IS BETWEEN 18 AND 22 WEEKS OF GESTATION, AS THIS PROVIDES OPTIMAL VISUALIZATION OF THE DEVELOPING FETUS.

Q: CAN THE ANATOMY SCAN DETERMINE THE SEX OF THE BABY?

A: YES, THE ANATOMY SCAN CAN OFTEN DETERMINE THE SEX OF THE BABY BASED ON THE VISUAL ASSESSMENT OF THE GENITALIA, ALTHOUGH THIS IS NOT ALWAYS GUARANTEED.

Q: HOW LONG DOES AN ANATOMY SCAN TYPICALLY TAKE?

A: AN ANATOMY SCAN TYPICALLY TAKES BETWEEN 30 TO 60 MINUTES, DEPENDING ON THE COMPLEXITY OF THE EXAMINATION AND THE COOPERATION OF THE FETUS.

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

A: IF AN ABNORMALITY IS DETECTED, HEALTHCARE PROVIDERS WILL DISCUSS THE FINDINGS WITH THE PARENTS AND MAY RECOMMEND FURTHER TESTING OR MONITORING TO ASSESS THE ISSUE MORE THOROUGHLY.

Q: IS THE ANATOMY SCAN PAINFUL?

A: THE ANATOMY SCAN IS GENERALLY NOT PAINFUL. IT INVOLVES THE APPLICATION OF GEL ON THE ABDOMEN AND THE USE OF A TRANSDUCER, WHICH MAY CAUSE SOME MILD DISCOMFORT BUT SHOULD NOT BE PAINFUL.

Q: CAN I BRING SOMEONE WITH ME TO THE ANATOMY SCAN?

A: YES, MOST FACILITIES ALLOW EXPECTANT PARENTS TO BRING A PARTNER OR SUPPORT PERSON TO THE ANATOMY SCAN TO SHARE THE EXPERIENCE AND PROVIDE EMOTIONAL SUPPORT.

Q: WHAT SHOULD I DO TO PREPARE FOR THE ANATOMY SCAN?

A: TO PREPARE FOR THE ANATOMY SCAN, YOU MAY BE ADVISED TO DRINK WATER TO FILL YOUR BLADDER, WEAR COMFORTABLE CLOTHING, AND BE READY TO LIE ON YOUR BACK DURING THE PROCEDURE.

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

A: WHILE YOU MAY RECEIVE SOME INITIAL FINDINGS FROM THE SONOGRAPHER, A COMPLETE ANALYSIS WILL BE DONE BY A PHYSICIAN, AND A REPORT WILL BE GENERATED FOR YOUR HEALTHCARE PROVIDER TO DISCUSS WITH YOU LATER.

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William E. Brant, Nancy M. Major, 2014-09-05 Perfect for radiology residents and practitioners, *Fundamentals of Body CT* offers an easily accessible introduction to body CT! Completely revised and meticulously updated, this latest edition covers today's most essential CT know-how, including the use of multislice CT to diagnose chest, abdominal, and musculoskeletal abnormalities, as well as the expanded role of 3D CT and CT angiography in clinical practice. It's everything you need to effectively perform and interpret CT scans. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Glean all essential, up-to-date, need-to-know information to effectively interpret CTs and the salient points needed to make accurate diagnoses. Review how the anatomy of each body area appears on a CT scan. Grasp each procedure and review key steps quickly with a comprehensive yet concise format. Achieve optimal results with step-by-step instructions on how to perform all current CT techniques. Compare diagnoses with a survey of major CT findings for a variety of common diseases—with an emphasis on those findings that help to differentiate one condition from another. Make effective use of 64-slice MDCT and dual source CT scanners with coverage of the most current indications. Stay current extensive updates of clinical guidelines that reflect recent changes in the practice of CT imaging, including (ACCP) Diagnosis and Management of Lung Cancer guidelines, paraneoplastic and superior vena cava syndrome, reactions to contrast solution and CT-guided needle biopsy. Get a clear view of the current state of imaging from extensively updated, high-quality images throughout. Access the complete contents online at ExpertConsult.

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Amanda Whaley,

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Subrata Dey, 2022-03-23 This book provides a concise yet comprehensive source of current information on Down syndrome and other chromosomal abnormalities. Research workers, scientists, medical graduates and paediatricians will find it an excellent source for reference and review. Key features of this book are as follows: • Mechanisms of aneuploidy. • Effect of sociodemographic factors on different congenital disorders. • Haematological malignancies and congenital heart disease in Down syndrome. • Prenatal screening, management and counselling to detect Down syndrome and other chromosomal abnormalities. While aimed primarily at research workers on Down syndrome and different types of chromosomal disorders, we hope that the appeal of this book will extend beyond the narrow confines of academic interest and be of interest to a wider audience, especially the parents and relatives of children suffering from Down syndrome and other chromosomal abnormality syndromes.

what does anatomy scan look for: *Nelson Essentials of Pediatrics* Karen Marcdante, Robert M. Kliegman, Richard E. Behrman, Hal B. Jenson, 2010-03-31 Considered the resource of choice for pediatric residencies, clerkships, and exams, *Nelson Essentials of Pediatrics* provides comprehensive, yet concise and accessible guidance on normal childhood growth and development, as well as the diagnosis, management, and prevention of common pediatric diseases and disorders. Edited by Drs. Karen Marcdante, Robert M. Kliegman, Hal B. Jenson, and Richard E. Behrman, this edition's content was specifically developed in accordance with the 2009 curriculum guidelines of the Council on Medical Student Education in Pediatrics. It also includes many new and improved clinical photographs and images for enhanced visual reference. A user-friendly full-color format facilitate study and expedite reference. Concise text, a full-color design, high-yield tables, and numerous images provide an effective overview of pediatrics. Edited by the same authorities responsible for the *Nelson Textbook of Pediatrics*, the most used and recognizable clinical reference in pediatrics. Content developed in accordance with 2009 COMSEP curriculum guidelines, and written and edited by leaders in pediatrics education, focuses on the core knowledge needed for a pediatric clerkship or rotation. A wealth of new images captures the clinical manifestations and imaging findings associated with Kawasaki disease, lupus, lymphoma, stroke, and many other disorders seen in children.

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2024-12-05 Radiography in Diagnostic Imaging: Techniques, Applications, and Innovations is an essential guide for students, healthcare professionals, and anyone interested in the rapidly evolving field of diagnostic imaging. This comprehensive text explores the foundational principles of radiographic imaging and its critical role in modern medicine. From the basics of X-ray technology to the latest advancements in imaging techniques, the book offers a thorough examination of how radiography is used to diagnose a wide range of medical conditions. The book is divided into three key sections: Techniques, Applications, and Innovations. In the Techniques section, readers will explore traditional and modern radiographic techniques, including fluoroscopy, computed tomography (CT), and magnetic resonance imaging (MRI). It details the physics behind these technologies, safety protocols, and best practices for optimal imaging quality. In the Applications section, real-world examples showcase how radiographic imaging is employed in various medical specialties, such as orthopaedics, cardiology, oncology, and paediatrics. The text delves into the diagnostic value of radiography, helping readers understand its importance in detecting and managing diseases and injuries. The final section, Innovations, examines cutting-edge technologies and emerging trends that are shaping the future of radiographic imaging. It includes discussions on digital radiography, artificial intelligence integration, and the potential of 3D imaging, offering insights into how these innovations will continue to revolutionize healthcare. With its in-depth coverage, Radiography in Diagnostic Imaging: Techniques, Applications, and Innovations provides a valuable resource for anyone seeking to understand the technical, clinical, and futuristic aspects of this vital field. Whether you're a radiography student, a healthcare practitioner, or a researcher, this book equips you with the knowledge to keep pace with the ongoing advancements in diagnostic imaging.

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what does anatomy scan look for: Differential Diagnosis in Obstetrics and Gynecologic Ultrasound - E-Book R A L Bisset, Durr-e-sabih, 2013-08-30 Written by well-experienced Radiologists with a focus on Ultrasound used in Obstetrics & Gynaecologic conditions. After a decade (the last edition being published in 2002), this much-in-demanded work has been updated with inclusion of new topics and sonographic images. Under- & Postgraduate students and practicing Obstetricians, Gynaecologists, Radiologists and Radiology Technologists will find this book satisfying thier needs in learning the subject.Preserving the well-appreciated way of imparting information, this edition is updated with the inclusion of sonographic images. Most of these images are arranged to show a range of findings in a particular condition. This edition has new topics and old topics have been extensively rewritten to impart the current knowledge and up-to-date information. Many protocols and practical tips have been added ensuring usefulness for the novice as well as the experienced practitioner of the art of ultrasound.

what does anatomy scan look for: Clinical Guide to Sonography - E-Book Charlotte Henningsen, Kathryn Kuntz, Diane J. Youngs, 2023-04-07 I really like the design and clinical focus of this book and believe that it will stimulate critical thinking among its transatlantic target audience (Hazel Edwards, Senior Sonographer, Lister Hospital, Stevenage) Organized by clinical problem rather than by body system, Clinical Guide to Sonography enables you to quickly find information related to the symptom being reported by the patient. This unique format covers various pathologies that may be related to a patient's symptoms, and features illustrations and sonograms that demonstrate each pathology. The book is divided into five major sections: abdomen, obstetrics, gynecology, superficial structures, and a miscellaneous section to include pediatric and vascular clinical indications. Each chapter within those sections focuses on a clinical indication, and incorporates background information, a clinical scenario, discussions of pathologies and differential diagnoses, illustrations, sonograms, patient scenarios with multiple choice and case-based questions to ensure you have a solid understanding of the material. This book covers a wide range of ultrasound examinations looking at the clinical question first. Reviewed by: Allison Harris, Clinical Co-Ordinator, City University London, Date: Oct 14 I really like the design and clinical focus of this book and believe that it will stimulate critical thinking among its transatlantic target audience. For UK readers, though, I feel it has less appeal. Reviewed by: RAD Magazine Date: July 2014 - Symptom-based presentation makes it easy for beginning and experienced sonographers to quickly find information related to the patient's symptom. - Summary tables of differential diagnoses and sonographic findings provide you with a brief overview of all chapter material for quick reference. - Clinical scenarios at the beginning of each chapter help you learn to apply information to the clinical setting. - Case studies and discussion questions give you the opportunity to enhance your critical-thinking skills and measure your comprehension of material. - Over 900 ultrasound images correlated to the pathology illustrate what you'll encounter in the clinical setting. - Glossary helps you define important terminology. - New chapters provide you with more complete coverage of the pathology sonographers encounter in practice. - New case studies with critical-thinking questions

set up realistic situations for you to use as a frame of reference. - 600 updated images produced by the latest technology keep you on the cutting-edge of sonography. - Instructor access to multiple-choice and image based test questions

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