Fetal Pig Dissection Day 6 Answers Updated Version

fetal pig dissection day 6 answers

Fetal pig dissection is an essential educational exercise for students studying anatomy, physiology, and biology. It offers hands-on experience that enhances understanding of mammalian body systems, organ placement, and developmental stages. Day 6 of dissection typically marks a critical point where students observe and identify various structures that have been uncovered or prepared in previous days. The "fetal pig dissection day 6 answers" serve as a comprehensive guide to help students verify their findings, understand anatomical relationships, and deepen their comprehension of mammalian anatomy. This article provides detailed, SEO-optimized insights into the key structures identified on day 6, their functions, and tips for successful dissection.

Understanding the Fetal Pig Dissection Process

Before delving into day 6 specifics, it?s important to understand the general process of fetal pig dissection. The dissection process usually spans several days, with each day focusing on different body systems or regions.

Typical Dissection Timeline

- Day 1: External anatomy and identification of features such as the snout, ears, limbs, and tail.
- Day 2: Opening the abdominal cavity to examine digestive organs like the stomach, intestines, liver, and pancreas.
- Day 3: Exploring the thoracic cavity, including the heart and lungs.
- Day 4: Investigating the urinary and reproductive systems.
- Day 5: E

Fetal Pig Dissection Day 6 Answers: An In-Depth Guide to Mastering the Final Stages

Embarking on a fetal pig dissection is a remarkable journey into the anatomy of mammals, offering students and enthusiasts a hands-on opportunity to explore the intricacies of organ systems and their interconnections. By the sixth day of dissection, learners are expected to consolidate their knowledge, identify key structures, and understand the functional significance of the components they have uncovered. This comprehensive guide aims to serve as an expert review of the Day 6 answers, providing clear explanations, detailed descriptions, and practical insights to enhance your

understanding and performance.

Understanding the Purpose of Day 6 in Fetal Pig Dissection

Dissection is a progressive process that begins with external identification and advances into the internal exploration of organ systems. Day 6 typically marks the culmination of this journey, focusing on the final identification of major organs, their functions, and the relationships between systems. This stage emphasizes integrating prior knowledge with detailed observation to recognize how the tissues and organs work together in the living organism.

Key objectives on Day 6 include:

- Confirming identification of all major organ systems
- Understanding the anatomical layout and spatial relationships
- Recognizing the physiological roles of each organ
- Clarifying the interdependence of systems such as respiratory, circulatory, digestive, and reproductive

Critical Structures and Their Identification

Accurate identification and understanding of each structure is vital. Below, each major organ or system typically examined on Day 6 is dissected in detail, along with common questions and their insightful answers.

The Heart

Location and Appearance:

The fetal pig's heart is located in the thoracic cavity, nestled between the lungs, slightly to the left of the midline. It appears as a muscular, cone-shaped organ with four chambers?two atria and two ventricles?though in fetal pigs, the internal structures may be less distinct due to developmental stage.

Key Features to Recognize:

- The coronary arteries on the surface
- The major blood vessels: aorta, vena cava (anterior and posterior), pulmonary arteries and veins
- The external grooves indicating the separation of chambers

Answer Insights:

The heart functions as the pump of the circulatory system, distributing oxygenated blood from the lungs to the body and returning deoxygenated blood back to the lungs. The right atrium receives deoxygenated blood from the body via the vena cava, while the left atrium receives oxygenated blood from the lungs via pulmonary veins.

The Lungs

Location and Appearance:

Positioned dorsal to the heart within the thoracic cavity, the lungs are spongy, lobed organs. In fetal pigs, the lungs may be less developed, but they still serve as vital structures for respiration.

Features to Note:

- The lobes (left and right, with the right typically larger)
- The bronchi branching into smaller bronchioles within the lung tissue

Answer Insights:

The primary role of the lungs is gas exchange?oxygen diffuses into the blood, and carbon dioxide diffuses out. Recognizing the bronchial tubes and alveolar regions (if visible) helps understand this process.

The Diaphragm

Location and Function:

The diaphragm is a sheet of muscle separating the thoracic cavity from the abdominal cavity, essential for respiration. It appears as a muscular dome on the underside of the thoracic cavity.

Dissection Tip:

Carefully reflect the diaphragm to observe the thoracic and abdominal organs underneath.

Answer Insights:

When the diaphragm contracts, it flattens and increases the volume of the thoracic cavity, drawing air into the lungs. Its relaxation causes exhalation.

The Liver

Location and Appearance:

A large, reddish-brown organ situated in the upper part of the abdominal cavity, just beneath the diaphragm. It has a lobed structure with a smooth surface.

Functions:

- Produces bile for fat digestion
- Processes nutrients absorbed from the digestive tract
- Detoxifies blood

Answer Insights:

Recognizing the liver?s lobes and its connection to the gallbladder (if visible) enhances understanding of digestion and metabolic regulation.

The Stomach

Location and Features:

Positioned below the liver, the stomach appears as a J-shaped pouch. It may be distinguished by its muscular walls and internal folds called rugae.

Functions:

- Mechanical digestion via muscular contractions
- Chemical digestion through gastric acids and enzymes

Answer Insights:

Understanding the stomach's role in digestion helps contextualize the importance of its structure and the connection to the esophagus and small intestine.

The Small Intestine

Location and Structure:

A long, coiled tube extending from the stomach, divided into the duodenum, jejunum, and ileum. It is characterized by extensive surface area for nutrient absorption.

Features to Recognize:

- The mesentery attaching it to the dorsal body wall
- Villi (if visible) that increase absorption surface

Answer Insights:

The small intestine is the site of most digestion and absorption, and recognizing its divisions aids in understanding digestion pathways.

The Large Intestine

Position and Appearance:

Surrounds the small intestine in the lower abdomen, appearing as a thicker, shorter tube with a wider diameter.

Functions:

- Absorbing water and salts from undigested food
- Forming and storing feces

Answer Insights:

Understanding its role in waste processing emphasizes the importance of the digestive system's final stages.

The Reproductive Organs

Male Pig:

- Testes located near the kidneys, often seen as small, oval glands
- Accessory structures like the vas deferens

Female Pig:

- Ovaries located near the kidneys
- Uterus with its horns, which may be visible in more advanced dissections

Answer Insights:

The reproductive system?s position and structure help elucidate the differences between male and female anatomy, as well as reproductive functions.

Understanding the Interconnections Between Systems

One of the key learning outcomes on Day 6 is grasping how organ systems work together seamlessly. Here are some critical interconnections:

- Circulatory and Respiratory Systems: The heart and lungs coordinate to oxygenate blood and remove carbon dioxide.
- Digestive and Circulatory Systems: Nutrients absorbed in the small intestine are transported via the blood to various tissues.
- Excretory System: The kidneys (though less prominent in fetal pigs) filter blood, working alongside the circulatory system to remove wastes.
- Reproductive and Endocrine Systems: Hormonal regulation influences reproductive processes, with structures like the ovaries or testes playing central roles.

Understanding these relationships enhances comprehension of physiological processes rather than just anatomical identification.

Common Challenges and Expert Tips for Day 6 Dissection

Despite the excitement of completing most major dissections, students often encounter challenges:

- Identifying Small or Similar Structures:

Use careful dissection techniques, and familiarize yourself with diagrams beforehand.

- Preserving Tissue Integrity:

Work slowly and methodically to avoid tearing delicate tissues, especially in the lungs and intestines.

- Understanding 3D Relationships:

Use models or 3D diagrams to visualize how organs are positioned relative to each other.

Expert Tips:

- Always note the orientation (anterior, posterior, dorsal, ventral) for clarity.
- Use appropriate tools?scalpels, scissors, forceps?and handle tissues gently.
- Take detailed notes and sketches during dissection for future reference.

Conclusion: Mastering Day 6 Dissection Answers

The sixth day of fetal pig dissection is an essential milestone that consolidates knowledge of mammalian anatomy. By thoroughly understanding the functions, locations, and relationships of the organs examined, students gain a comprehensive view of how complex biological systems operate in harmony. Reviewing the Day 6 answers with an analytical eye not only improves identification skills but also deepens appreciation for the intricacies of biological design.

Remember, the key to success lies in meticulous observation, critical thinking, and connecting structure with function. Whether preparing for exams, lab reports, or simply enhancing your biological understanding, mastering the Day 6 dissection answers empowers you to approach mammalian anatomy with confidence and curiosity.

QuestionAnswer What are the key anatomical features identified during fetal pig dissection on day 6? On day 6 of fetal pig dissection, students typically identify the forelimbs, hindlimbs, tail, and basic body structures such as the head and torso, along with external features like the umbilical cord and skin folds. How does the development of the fetal pig at day 6 compare to earlier stages? At day 6, the fetal pig has begun to develop recognizable limbs and external features, showing more advanced differentiation than earlier stages, where only simple embryo structures and early limb buds are present. What safety precautions should be taken during fetal pig dissection on day 6? Students should wear gloves, goggles, and lab coats to prevent contamination, handle sharp instruments carefully, and work in a well-ventilated area to avoid inhaling fumes from preservatives. What are common challenges students face during day 6 fetal pig dissection? Students often struggle with identifying small or developing structures, maintaining proper dissection techniques to avoid damaging tissues, and understanding the spatial relationships of anatomical features. Why is fetal pig dissection important for understanding mammalian anatomy? Fetal pig dissection provides hands-on experience with mammalian anatomy, highlighting similarities with human structures, and helps students learn about organ systems, development, and spatial relationships within the body. How can students best prepare for day 6 fetal pig dissection? Students should review diagrams and notes on fetal pig anatomy beforehand, familiarize themselves with dissection tools and procedures,

and understand the developmental stages of the fetus to identify features accurately. What are the ethical considerations involved in fetal pig dissection? Ethical considerations include ensuring humane treatment of animals, using specimens obtained ethically and legally, and emphasizing respect and responsible handling during dissection activities. What developmental processes are visible at day 6 of fetal pig growth? At day 6, processes such as limb bud formation, early organ development, and initial formation of body segments can be observed, indicating the ongoing development of the fetus. How does fetal pig dissection on day 6 enhance understanding of embryonic development? Dissecting at day 6 allows students to observe early developmental features, compare stages of growth, and relate external structures to internal organ development, deepening their understanding of embryology. What are the common modifications or adjustments made during day 6 dissection to improve learning? Instructors may provide detailed diagrams, use magnifying tools for small structures, guide students through step-by-step procedures, and encourage group work to promote better understanding and observation.

Related keywords: fetal pig dissection, day 6, answers, dissection steps, pig anatomy, organ identification, muscle groups, circulatory system, respiratory system, reproductive organs

OBSTETRIC IMAGING FETAL DIAGNOSIS AND CARE E BOOK

Obstetric imaging fetal diagnosis and care e book is a comprehensive resource designed to assist healthcare professionals, radiologists, obstetricians, and fetal medicine specialists in understanding and applying advanced imaging techniques for fetal diagnosis and management. As prenatal care continues to evolve, the integration of sophisticated imaging modalities has become paramount in detecting, diagnosing, and managing fetal anomalies and conditions early in pregnancy. This e-book serves as an essential guide, combining clinical insights, latest research, and practical protocols to enhance fetal care outcomes.

Overview of Obstetric Imaging and Its Significance

Defining Obstetric Imaging

Obstetric imaging refers to the use of various imaging modalities to visualize the fetus, placenta, and maternal reproductive organs during pregnancy. It plays a critical role in:

- Confirming pregnancy viability
- Estimating gestational age
- Monitoring fetal growth and development

- Detecting congenital anomalies and fetal pathology
- Guiding invasive procedures such as amniocentesis or chorionic villus sampling

Importance in Fetal Diagnosis and Care

Early and accurate diagnosis can significantly impact perinatal outcomes. Obstetric imaging allows for:

- Early detection of structural abnormalities
- Assessment of fetal well-being
- Planning delivery strategies
- Providing parental counseling
- Implementing timely interventions

Core Imaging Modalities in Fetal Diagnosis

Ultrasound (US)

Ultrasound remains the cornerstone of obstetric imaging due to its safety, accessibility, and real-time capabilities.

2D Ultrasonography

- Standard modality for routine fetal assessment
- Used to measure fetal size, examine anatomy, and detect anomalies

3D and 4D Ultrasonography

- Provides volumetric images and real-time motion
- Useful for detailed fetal facial, limb, and organ visualization
- Enhances parental bonding and detailed anomaly assessment

Fetal Magnetic Resonance Imaging (MRI)

- Offers superior soft tissue contrast
- Used in cases where ultrasound findings are inconclusive or limited, such as:

- Central nervous system anomalies
- Complex thoracic or abdominal abnormalities
- Assessing placental pathology

- Safe in pregnancy when performed with appropriate protocols

Other Imaging Techniques

- Doppler ultrasound: Evaluates fetal blood flow and placental circulation
- Elastography: Emerging modality for tissue characterization

Fetal Diagnosis: Common Conditions and Imaging Approaches

Structural Anomalies

Early detection of structural anomalies is crucial for management planning.

Neural Tube Defects

- Spina bifida, anencephaly
- Detected via ultrasound by observing cranial and spinal abnormalities
- Elevated maternal serum alpha-fetoprotein (AFP) levels can prompt detailed imaging

Cardiac Anomalies

- Congenital heart defects
- Fetal echocardiography assesses structural and functional cardiac issues

Facial and Cranial Anomalies

- Cleft lip/palate, micrognathia
- 3D ultrasound enhances visualization

Abdominal Wall Defects

- Gastroschisis, omphalocele
- Ultrasound identifies protrusions and associated anomalies

Genetic and Chromosomal Disorders

Imaging complements biochemical and genetic testing.

- Increased nuchal translucency
- Absent nasal bone
- Ventriculomegaly

Fetal MRI and detailed ultrasound aid in diagnosis and counseling.

Fetal Growth and Well-being

Monitoring fetal growth via ultrasound biometry helps identify intrauterine growth restriction (IUGR) or macrosomia.

Placental and Amniotic Fluid Assessment

- Placental location and maturity
- Amniotic fluid volume (oligohydramnios or polyhydramnios)

Emerging Technologies and Advanced Imaging Techniques

Fetal Neuroimaging

- Advanced MRI techniques for detailed CNS assessment
- Diffusion tensor imaging (DTI) for white matter evaluation

Fetal Cardiac Imaging

- Fetal echocardiography with high-resolution probes
- 4D imaging for dynamic assessment

Artificial Intelligence and Machine Learning

- Automated anomaly detection
- Risk stratification models
- Improving diagnostic accuracy and efficiency

Guidelines and Protocols for Fetal Imaging

Standardized Imaging Protocols

Adherence to guidelines ensures consistency and accuracy:

- First-trimester screening and detailed anatomy scans
- Serial ultrasounds for growth and anomaly surveillance
- Fetal echocardiography in high-risk pregnancies

Safety Considerations

- Use of the lowest possible ultrasound intensity
- Limiting examination duration
- Awareness of contraindications for MRI

Fetal Diagnosis and Care: Multidisciplinary Approach

Team Collaboration

Effective fetal care involves cooperation among:

- Obstetricians
- Radiologists and Sonographers
- Fetal medicine specialists
- Genetic counselors
- Pediatric surgeons and neonatologists

Parental Counseling and Ethical Considerations

- Communicating complex findings compassionately
- Discussing prognosis, options, and interventions
- Respecting parental choices and cultural values

The Future of Obstetric Imaging and Fetal Care

Personalized Fetal Medicine

Integration of genomics, biomarker analysis, and imaging data to tailor management

Technological Innovations

- 3D printing of fetal models for surgical planning
- Virtual reality environments for education and planning
- Enhanced AI-driven diagnostic tools

Research and Development

Ongoing studies aim to improve early detection, non-invasive diagnostics, and fetal therapy techniques.

Conclusion

The **obstetric imaging fetal diagnosis and care e book** encapsulates the vital role of advanced imaging modalities in modern fetal medicine. It emphasizes the importance of a multidisciplinary, patient-centered approach to detect anomalies early, guide management, and improve perinatal outcomes. Staying abreast of technological innovations and adhering to standardized protocols ensures that healthcare providers can deliver the highest quality of prenatal care, ultimately fostering healthier pregnancies and better neonatal health.

If you have specific topics or conditions you'd like to explore further, or require detailed case studies, feel free to ask!

Obstetric Imaging Fetal Diagnosis and Care e-Book: An In-Depth Review

In the rapidly evolving field of obstetric imaging, the Obstetric Imaging Fetal Diagnosis and Care e-Book stands out as an essential resource for clinicians, radiologists, and obstetricians alike. This comprehensive digital guide offers a detailed exploration of fetal imaging techniques, diagnostic criteria, and management strategies, making it a valuable tool for those dedicated to ensuring optimal fetal outcomes. As technology advances and the complexity of fetal conditions increases, having a reliable, up-to-date reference is crucial. This e-book aims to fill that niche, providing evidence-based insights, illustrative cases, and practical recommendations.

Overview of the e-Book

The Obstetric Imaging Fetal Diagnosis and Care e-Book is designed to serve as a thorough textbook and reference manual for fetal imaging. Its scope covers a broad spectrum of topics?from basic ultrasound principles to advanced fetal MRI techniques?making it suitable for both beginners and experienced practitioners. The content is organized systematically, allowing readers to navigate easily through chapters dedicated to normal fetal development, congenital anomalies, placental pathology, and fetal therapy.

Key Features

- Comprehensive Content: Covers all major modalities including ultrasound, 3D/4D imaging, Doppler studies, and fetal MRI.
- Illustrations and Case Studies: Richly illustrated with high-quality images, diagrams, and real-life cases, which enhance understanding.
- Updated Evidence: Incorporates the latest research findings, guidelines, and consensus statements.
- Practical Approach: Focuses on clinical application, diagnosis, management, and counseling.

Content Breakdown and Core Topics

Normal Fetal Development and Imaging Techniques

Understanding normal fetal anatomy and growth parameters is foundational. This section discusses the ultrasound milestones during pregnancy, biometric measurements, and the application of Doppler ultrasound. The e-book thoroughly explains how to distinguish between normal variations and early signs of pathology.

Features:

- Detailed descriptions of fetal head, brain, thorax, abdomen, limbs, and genitalia development.
- Normative data charts for biometric parameters.
- Guidance on optimal imaging windows and measurement techniques.

Pros:

- Clear illustrations aid in learning complex anatomy.
- Emphasizes the importance of standardized measurements and protocols.

Cons:

- Some sections may be overly detailed for casual readers or non-specialists.

Fetal Anomalies and Congenital Disorders

This is the core strength of the e-book. It provides an extensive review of fetal anomalies, including structural defects, genetic syndromes, and complex malformations.

Topics Covered:

- Neural tube defects
- Cardiac anomalies
- Abdominal wall defects
- Skeletal dysplasias
- Fetal tumors
- Chromosomal abnormalities detection

Features:

- High-resolution images illustrating key diagnostic features.
- Differential diagnosis guidance.
- Recommendations for further testing, including genetic counseling and invasive testing.

Pros:

- In-depth analysis supported by recent research.
- Practical tips for early detection and differentiation.

Cons:

- The breadth of content might be overwhelming for those unfamiliar with fetal pathology.

Placental and Umbilical Cord Disorders

Placental health is vital for fetal well-being. This section covers placental insufficiency, previa, abruption, and cord abnormalities such as nuchal cord and true knots.

Highlights:

- Ultrasound and Doppler criteria for placental assessment.
- MRI contributions in complex cases.
- Management strategies for placental complications.

Pros:

- Integrates imaging findings with clinical management.
- Emphasizes the importance of timely diagnosis.

Cons:

- Limited discussion on emerging placental imaging techniques beyond MRI and ultrasound.

Fetal MRI and Advanced Imaging Modalities

While ultrasound remains the primary modality, fetal MRI is increasingly vital in complex cases. This chapter discusses indications, protocols, and interpretation tips.

Features:

- Step-by-step MRI acquisition protocols.
- When to opt for MRI over ultrasound.
- Examples illustrating brain malformations, thoracic anomalies, and abdominal masses.

Pros:

- Clear guidance on integrating MRI into routine practice.
- High-quality images demonstrating pathology.

Cons:

- Slightly technical; may require prior familiarity with MRI physics.

Fetal Therapy and Interventional Procedures

This section offers insights into intrauterine surgeries, shunt placements, and other interventions

aimed at correcting fetal conditions before birth.

Topics Include:

- Indications and patient selection.
- Imaging guidance during procedures.
- Outcomes and risks.

Features:

- Case-based discussion of successful interventions.
- Ethical considerations and counseling.

Pros:

- Provides a comprehensive overview of fetal therapeutic options.
- Useful for practitioners involved in fetal medicine.

Cons:

- Less detailed procedural techniques; primarily an overview.

Strengths of the e-Book

- Up-to-Date Content: Reflects current standards, guidelines, and technological advances.
- User-Friendly Layout: Organized for quick reference and learning.
- High-Quality Visuals: Offers a wealth of images, diagrams, and flowcharts.
- Interdisciplinary Approach: Combines radiology, obstetrics, genetics, and fetal medicine.
- Practical Focus: Emphasizes real-world diagnosis, counseling, and management.

Limitations and Areas for Improvement

- Depth vs. Breadth: While comprehensive, some topics might benefit from deeper exploration, especially in emerging areas like 3D imaging analytics.
- Interactivity: Being an e-book, it lacks interactive components such as quizzes or videos, which

could enhance learning.

- Regional Variability: Recommendations may not account for resource limitations in low-income settings.
- Update Frequency: The fast pace of technological change necessitates regular updates, which are not currently specified.

Who Should Use This e-Book?

The Obstetric Imaging Fetal Diagnosis and Care e-Book is suitable for a wide audience:

- Obstetricians and Maternal-Fetal Medicine Specialists: For diagnostic guidance and management planning.
- Radiologists and Sonographers: As a reference for imaging protocols and anomaly recognition.
- Fetal Medicine Practitioners: To stay current with intervention techniques.
- Medical Students and Residents: As an educational resource.
- Genetic Counselors: To correlate imaging findings with genetic testing.

Conclusion

The Obstetric Imaging Fetal Diagnosis and Care e-Book is a robust, well-structured resource that effectively bridges the gap between theoretical knowledge and clinical practice. Its comprehensive coverage, high-quality visuals, and practical approach make it an invaluable asset in the field of fetal medicine. While it could benefit from more interactive features and ongoing updates, its current form provides a solid foundation for understanding and applying obstetric imaging techniques. For clinicians committed to advancing their expertise in fetal diagnosis and care, this e-book is highly recommended as both a learning tool and a clinical reference.

Final Verdict: A must-have digital resource for professionals involved in fetal diagnosis, offering clarity, depth, and practical insights necessary for optimal fetal care.

QuestionAnswer What are the key imaging techniques used in fetal diagnosis according to the 'Obstetric Imaging Fetal Diagnosis and Care' eBook? The eBook highlights ultrasound as the primary modality for fetal imaging, including 2D and 3D ultrasound, along with fetal MRI for detailed assessment of complex anomalies and soft tissue evaluation. How does the eBook address the management of fetal congenital anomalies detected via imaging? It provides comprehensive guidelines on diagnosis, counseling, and multidisciplinary management strategies for various congenital anomalies identified prenatally. What advancements in fetal imaging are covered in the latest edition of this eBook? The latest edition discusses innovations such as high-resolution 3D/4D ultrasound, fetal MRI techniques, and emerging imaging protocols enhancing diagnostic accuracy and fetal care planning. How can obstetric imaging improve fetal prognosis and outcomes? By

enabling early detection of anomalies, guiding intrauterine interventions, and informing delivery planning, obstetric imaging plays a crucial role in improving fetal prognosis and outcomes. Does the eBook provide guidance on fetal cardiac imaging? Yes, it offers detailed protocols for fetal echocardiography, including techniques to diagnose congenital heart defects accurately during pregnancy. Are there specific sections dedicated to fetal growth assessment and placental imaging? Absolutely, the eBook discusses methods for evaluating fetal growth parameters and placental health, including Doppler studies and placental MRI imaging. What is the role of 3D/4D ultrasound in fetal diagnosis as per the eBook? 3D/4D ultrasound enhances visualization of fetal anatomy, allows for detailed facial and limb assessments, and improves parental understanding and counseling. How does the eBook address ethical considerations in fetal imaging and diagnosis? It emphasizes informed consent, counseling about diagnostic findings, and ethical decision-making regarding fetal interventions and pregnancy management. What are the recommended protocols for fetal MRI in complicated pregnancies? The eBook outlines indications, safety protocols, and optimized imaging sequences to maximize diagnostic yield while ensuring fetal and maternal safety. Can this eBook assist clinicians in developing comprehensive fetal care plans? Yes, it provides integrated approaches combining imaging findings with clinical management strategies to facilitate personalized fetal care planning.

Related keywords: obstetric imaging, fetal diagnosis, pregnancy ultrasound, fetal medicine, prenatal imaging, obstetrics and gynecology, fetal ultrasound techniques, prenatal care, obstetric ultrasound guide, fetal health assessment

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