

NAME _____

LAB TIME/DATE _____

The Fetal Skeleton

1. Are the same skull bones seen in the adult also found in the fetal skull? Yes
2. How does the size of the fetal face compare to its cranium? Face is foreshortened, overshadowed by the large cranium. Maxillae and mandible are very tiny.

How does this compare to the adult skull? In the adult the cranium is proportionately smaller and the facial bones are proportionately larger and more prominent.

3. What are the outward conical projections on some of the fetal cranial bones? These are ossification (growth) centers.
4. What is a fontanel? A fibrous membrane connecting fetal skull bones.
What is its fate? Progressively ossified; replaced by a suture.
What is the function of the fontanel in the fetal skull? Allow fetal skull to be compressed slightly during birth passage; allow for fetal (and infant) brain growth.

5. Describe how the fetal skeleton compares with the adult skeleton in the following areas:

cranium: In the fetus, with the anterior fontanelles absent, skull sutures present.

mandible: In the fetus the teeth, hyoid, and larynx are separate bones. In the adult they form the hyoid bone, which is fused bones.

scapula and clavicle: Not ossified in the fetus.

sternum: The cartilaginous parts are not fused in the fetus.

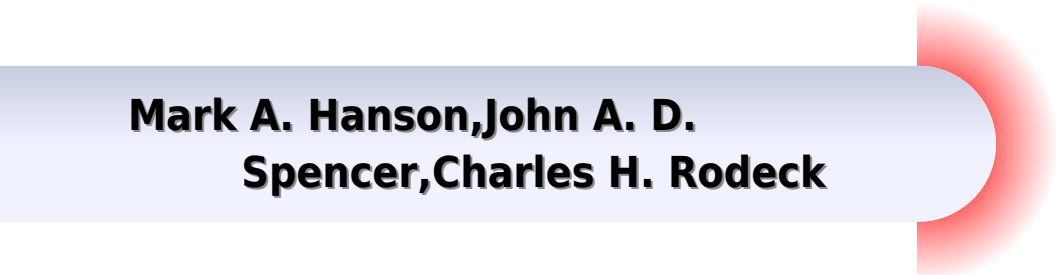
basal bones: Absent or rudimentary in the fetus, absent in the adult.

pubis: May be absent in the fetus. Epiphysis is ossified.

fibula: upper: Unossified inferiorly, fibrous, cartilaginous and may ossify in the adult.

Answers For Exercise 12 The Fetal Skeleton

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Answers For Exercise 12 The Fetal Skeleton:

Human Anatomy and Physiology Elaine N. Marieb, 1989 *Human Anatomy and Physiology Laboratory Manual*
Elaine Nicpon Marieb, 1985 Fetal and Neonatal Physiology E-Book Richard Polin, Steven H. Abman, David H. Rowitch, William Benitz, 2021-07-29 Offering the comprehensive authoritative information needed for effective diagnosis treatment and management of sick and premature infants Fetal and Neonatal Physiology 6th Edition is an invaluable resource for board review clinical rounds scientific research and day to day practice This trusted two volume text synthesizes recent advances in the field into definitive guidance for today s busy practitioner focusing on the basic science needed for exam preparation and key information required for full time practice It stands alone as the most complete text available in this complex and fast changing field yet is easy to use for everyday application Offers definitive guidance on how to effectively manage the many health problems seen in newborn and premature infants Contains new chapters on Pathophysiology of Genetic Neonatal Disease Genetic Variants and Neonatal Disease and Developmental Biology of Lung Stem Cells as well as significantly revised chapters on Cellular Mechanisms of Neonatal Brain Injury Neuroprotective Therapeutic Hypothermia Enteric Nervous System Development and Gastrointestinal Motility and Physiology of Twin Transfusion Features 1 000 full color diagrams graphs and anatomic illustrations 170 chapters and more than 350 global contributors Includes chapters devoted to clinical correlation that help explain the implications of fetal and neonatal physiology as well as clinical applications boxes throughout Provides summary boxes at the end of each chapter and extensive cross referencing between chapters for quick reference and review Allows you to apply the latest insights on genetic therapy intrauterine infections brain protection and neuroimaging and much more **Fetal and Neonatal Physiology** Richard A. Polin, William W. Fox, Steven H. Abman, 2011-01-01 Fetal and Neonatal Physiology edited by Drs Polin Fox and Abman focuses on physiologic developments of the fetus and newborn and their impact on the clinical practice of neonatology A must for practice this 4th edition brings you the latest information on genetic therapy intrauterine infections brain protection and neuroimaging and much more You ll also have easy access to the complete contents and illustrations online at expertconsult com Gain a comprehensive state of the art understanding of normal and abnormal physiology and its relationship to disease in the fetus and newborn premature infant from Dr Richard Polin and other acknowledged worldwide leaders in the field Understand the implications of fetal and neonatal physiology through chapters devoted to clinical correlation Apply the latest insights on genetic therapy intrauterine infections brain protection and neuroimaging and much more Effectively manage the consequences of intrauterine infections with three new chapters covering intrauterine infection and preterm birth intrauterine infection and brain injury and intrauterine infection and chronic lung disease Access the complete contents and illustrations online at expertconsult com fully searchable Get the latest developments and a full understanding of the distinct physiology of the fetus and newborn so you can treat and manage sick newborns and preemies

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