

Anatomy and dissection of the fetal pig by walker 5th edition

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Why are fetal pigs used for dissection? Fourthly, fetal pigs are easy to dissect because of their soft tissue and incompletely developed bones that are still made of cartilage. In addition, they are relatively large with well-developed organs that are easily visible.

How to dissect a piglet? Cut around the umbilical cord, making an upside down, U-shaped incision. Extend these cuts, in parallel, to the pubic region. To reveal the abdominal organs, make 2 lateral incisions—one along the base of the ribcage and another at the hindlegs. Fold back the flaps of skin to expose the internal organs.

Do pigs have the same organs as humans? Internal Organs Pigs have all of the same thoracic and abdominal organs as humans. There are small differences in a few organs. Liver – the human liver has four lobes: right, left, caudate and quadrate. The fetal pig liver has five lobes: right lateral, right central, left central, left lateral, and caudate.

What are the learning objectives of fetal pig dissection? Learning Objectives: Discuss the anatomy and physiology of a fetal pig with the class. Relate the structure and function of each body system to the human organ system. Describe the function of each system and how interrelates to other systems. Answer assessment questions demonstrate understanding of concepts.

Should animal dissection be banned in schools? The Replacing Animals in Science (RAISE) Act argues that animal dissection is costly, exposes participants to carcinogenic chemicals and is harmful to both animals and the environment.

What body parts are involved in fetal pig dissection? Aorta, colon (large intestine), diaphragm, heart, kidney, lung, renal artery, posterior vena cava, renal vein, small intestine, spleen, stomach, ureter. Figure 46. Aorta, kidney, liver, posterior vena cava, renal artery, renal vein, spleen, ureter, urinary bladder.

Do schools still dissect pigs? Millions of animals, including over 170 species, are dissected or vivisected in schools and universities each year. Cats, frogs, fetal pigs, grasshoppers, mink, earthworms, rats, mice, dogs, pigeons, and turtles are just some of the species used.

What keeps the trachea from collapsing in a fetal pig? Answer and Explanation: The cartilaginous rings keep the trachea from collapsing in a fetal pig. There are firm cartilaginous rings that are found in the walls of the trachea, and these firm rings help to keep the trachea open.

Is a pig's heart like a human's? Although pig hearts are markedly similar to human hearts, there are subtle differences in the anatomy. We have found the diameter of the great vessels to be proportionally smaller in pigs than in humans, particularly for the ascending aorta and main pulmonary artery (PA).

How intelligent are pigs? Pigs are gentle creatures with surprising intelligence. Studies have found they're smarter than dogs and even 3-year-old children! In the wild, pigs form small groups that typically include a few sows and their piglets.

Do pigs have two uteruses? Females have bicornuate uteruses and two conceptuses must be present in both uterine horns to enable pregnancy to proceed.

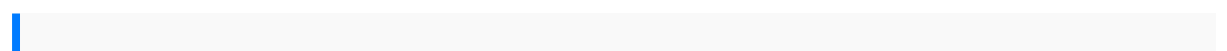
Why are pigs a good choice for dissection specimens? Pigs have a lot in common with humans at the level of organs, genetics, body function and the immune system, so using pigs in research studies can predict similar results in humans, compared to other large animals or the most common research mammal, the mouse (read our feature about mice in biomedical research).

Why is the fetal pig a good choice for a specimen to dissect in order to understand human anatomy? The genus and species is *Sus domesticus*. A fetal pig dissection is helpful for anatomy studies because the size of the organs makes them easy to find and identify. It is also interesting to do because a lot of the internal

anatomy is similar to humans!

Why are pigs used for organ transplants? The use of organs from other species in humans, called xenotransplantation, has long been a dream of surgeons because of the chronic shortage of suitable human organs. Researchers have homed in on pigs as a donor species, in part because their organs' size and anatomy resemble those of humans.

Why are animals used for dissection? Dissecting animal organs is a teaching method that offers a direct and authentic view into morphological structures. As a hands-on activity, it enables both methodological learning and understanding the process of scientific inquiry (Bowd, 1993).



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