

swine in cardiovascular research pdf

swine as a preclinical model has been based upon anatomic, physiologic and practical considerations.^{1,2,4} The species provides relatively large cardiovascular structures and the size of the heart and blood vessels can be predicted by weight matching. Swine will develop neointimal hyperplasia when stents and grafts are implanted in blood vessels.

Interventional Cardiovascular Procedures - Sinclair Research

The coronary circulation of swine was studied to establish adequate baseline information for using swine in cardiovascular research. Of 65 hearts from domestic and miniature pigs, 45 were injected with a methacrylate plastic and prepared as coronary artery casts whose branches were described and measured, and 20 were injected with different ...

quantitative study of the anatomy and distribution of

A large-animal model is essential for the assessment of functional parameters in cardiovascular surgical research. To date the canine model has been used successfully because of its availability ...

Swine as a Model for Cardiovascular Research: Improved

A large-animal model is essential for the assessment of functional parameters in cardiovascular surgical research. To date the canine model has been used successfully because of its availability and tolerance to cardiopulmonary bypass. However, because of decreased availability and increased cost, an alternative animal model is now needed.

Swine as a Model for Cardiovascular Research: Improved

The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in a breed of swine ideally suited for studying human cardiovascular disease.

Wisconsin Miniature Swine™ for Cardiovascular Research

DRUG DOSAGES & CONTINUOUS RATE INFUSION PROTOCOLS FOR CARDIOVASCULAR RESEARCH IN SWINE M. Michael Swindle, DVM, Diplomate ACLAM & ECLAM, swinotech@hotmail.com

DRUG DOSAGES & CONTINUOUS RATE INFUSION PROTOCOLS FOR

Swine are used as general surgical models of most organs and systems, for cardiovascular research including atherosclerosis, for digestive system models, and in recent years in transplantation and xenographic research.

Why Swine?

Swine are considered to be one of the major animal species used in translational research, surgical models, and procedural training and are increasingly being used as an alternative to the dog or monkey as the choice of nonrodent species in preclinical toxicologic testing of pharmaceuticals.

Swine as Models in Biomedical Research and Toxicology

This experiment was conducted at the University of Minnesota's Southern Research and Outreach Center Swine Research Facility in Waseca. Two groups of 6 (n = 12) second parity ...

Vitamin E and selenium status of pigs fed DDGS diets and

Heart Problems Pigs hearts are similar to human hearts in its day to day function as well as its reaction to

situations, therefore, a lot of research has been done on pigs with regards to their hearts and how they function.

Heart Disease/Heart Defects In Mini Pigs - Mini Pig Info

This chapter provides an overview of the use of domestic and miniature breeds of swine in biomedical research. Differences between breeds of pigs and the most significant anatomic and physiological characteristics of the species related to their selection as biomedical research models are discussed.

Swine in Biomedical Research | SpringerLink

Douglas WR. Of pigs and men and research: a review of applications and analogies of the pig, *sus scrofa*, in human medical research. *Space Life Sci.* 1972 Jun; 3 (3):226â€“234. Guerreiro D, Lennox SC, Anderson RH. Postnatal development of the pig heart. *Cardiovasc Res.* 1980 Dec; 14 (11):675â€“679. GUINEY EJ.

Anatomy of the pig heart: comparisons with normal human

We have quantified the development of the coronary collateral circulation in the pig. The collateral circulation was induced to grow by placing an ameroid occluder on the left circumflex coronary artery. Two to 16 weeks after ameroid placement, the coronary collateral circulation was identified after the injection of several colors of a silicone polymer into the coronary arteries and the aorta.

Coronary collateral development in swine after coronary

Contains Nonbinding Recommendations Guidance for Industry and FDA Staff . General Considerations for Animal Studies for Cardiovascular Devices . Document issued on: July 29, 2010

Guidance for Industry and FDA Staff General Considerations

Weaver, ME, Pantely, GA, Bristow, JD & Ladley, HD 1986, ' A quantitative study of the anatomy and distribution of coronary arteries in swine in comparison with other animals and man ' *Cardiovascular Research*, vol. 20, no. 12, pp. 907-917.

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