

Farm Animals in Biomedical Research—Part One

Swine in Biomedical Research: Management and Models

M. Michael Swindle, Alison C. Smith, Kathy Laber-Laird, and Laurel Dungan

INTRODUCTION

For the last 2 decades, swine have been used with increasing frequency in biomedical research as replacements for dogs and primates, as well as models of human disease based upon their own unique anatomy and physiology (Stanton and Mersmann, 1986; Swindle, 1992; Tumbleson, 1986).

All of the domestic farm breeds and miniature breeds available in the United States are *Sus scrofa domestica*. Farm breeds have the disadvantage of a rapid growth rate, increasing from an average weight of 1 kg at birth to 100 kg at 4 months of age. Mature breeding stock typically reach weights of greater than 200 kg. Consequently, these animals are best used for non-survival or short-term projects of less than 3 weeks in duration.

Miniature pigs are more commonly used for long-term projects because of their smaller size and growth rate. Depending on the breed, miniature pigs grow from a birth weight of 0.5 kg to 12-45 kg, at 4 months of age. Breeding stock reach weights of 45-100 kg. Commercially available miniature pigs also tend to be more tractable than domestic breeds raised in an agricultural setting. The most commonly used laboratory breeds of miniature pigs are Yucatan miniature, Yucatan Micropig®, Hanford, Sinclair (Hornell), Pitman-Moore, and Goettingen (Panepinto, 1986).

The purpose of this article is to review the use of swine in biomedical research and to provide general information on the husbandry and management of the various breeds in a laboratory setting. If an institution seeks to raise swine in large numbers, it would be well advised to consult an agricultural scientist involved in swine production programs for advice on facility design and management.

BIOMEDICAL MODELS

Swine are commonly used in cardiovascular research because swine and humans share important anatomic and physiologic characteristics. Their hearts are approximately

the same size, and coronary blood flow, hemodynamic and myocardial contractility, development of atherosclerosis are analogous (Stanton and Mersmann, 1986). Consequently, swine are used to study congenital heart disease (Gillette et al., 1991; Mitchell et al., 1994; Swindle et al., 1992), myocardial infarction (Bloor et al., 1992), hemodynamics and shock (Hannon, 1992; Hoban et al., 1992), development of interventional radiology devices including balloon catheters and intravascular stents (Gal and Isner, 1992; White et al., 1992), hypertension (Zambraski et al., 1992), cardiopulmonary bypass and anesthesia (Cameron et al., 1992; Weiskopf et al., 1992), heart failure (Hendrick et al., 1990), and atherosclerosis (Lee et al., 1986).

Swine are also used extensively for nutritional studies because their digestive physiology is similar to humans. Because they are omnivores, swine will readily consume a variety of nutritional supplements and test substances (Swindle et al., 1988). They have also been used for many other studies related to nutrition, including total parenteral nutrition, lipid metabolism, diabetes, alcoholism, gastric ulceration, and splanchnic blood flow (Cohen et al., 1992; Laber-Laird et al., 1992; Tumbleson, 1986).

Organ transplantation studies have been performed using the swine heart (Hall et al., 1986), liver (Flye, 1992), kidney (Pennington, 1992), pancreas (Koyama et al., 1986), and intestine (Pritchard et al., 1986). Many of these organ transplantation studies have been related to immunologic aspects of transplants, including the development of transgenic animals that would be immunologically accepted by humans (Sachs, 1992).

Other studies have involved wound healing and plastic and reconstructive surgery (Kerrigan et al., 1986), fetal surgery (Randall, 1986), and pharmacology and toxicology (Kurihara-Bergstrom et al., 1986; Feletou and Teisseire, 1992). Reproductive physiology and endocrine functions have also been studied (Tumbleson, 1986).

Swine are used extensively in surgical training classes for health care practitioners. Initially they were used to train medical students and residents in surgical skills (Swindle and Bobbie, 1983) but are now used extensively to train graduate physicians, nurses, and technical staff in endoscopic and stapling surgical techniques, laser surgery, and microsurgery.

When comparing studies using swine, the differences in physiology, genotype, and phenotype and in maturity at a

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Swine As Models In Biomedical Research

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web the story the duchess and the jeweler reflects the english society of writer s time it was an age of change the high ups were coming down because of their moral decadence and the commoners were coming up once oliver bacon was very poor and lived in a filthy little alley he worked very hard and used

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web oh oliver when will you have sense my son then he had gone behind a counter had sold cheap watches then he had taken a wallet to amsterdam at that memory he would chuckle the old oliver remembering the young yes he had done well with the three diamonds also there was the commission on the emerald

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web the book of the duchess is a surreal poem that was presumably written as an elegy for blanche duchess of lancaster s the wife of geoffrey chaucer s patron the royal duke of lancaster john of gaunt death in 1368 or 1369 the poem was written a few

years after the event and is widely regarded as flattering to both the duke and the duchess