



Laboratory Experimental Research Studies and Clinical Trials on Animals

Shu Kurokiwa*

Department of Cardiovascular Science and Medicine, Chiba University of Medicine Chiba, Chuo-ku, Chiba199-1728, Japan

DESCRIPTION

Laboratory experiments are to study the onset and progression of disease using animals. Animal testing tests how safe and effective new treatments are before testing in humans. Animals and humans suffer from many of the same illnesses. A particular animal species can represent people with a particular illness. The information we get from these studies show we are similar and how different we are will benefit humans and animals alike. Medical research using animals is a kind of medical research, but there are also experiments and computer simulations using cells and chemical substances. Animal testing usually describes the study of vertebrates such as cats, mice, frogs, pigs and primates. Most animals used in research are specially bred for use in medical research. All medical research is carefully planned and includes medical research involving animals. Experts reviewing animal experiments proposed by scientists will consider some considerations in advance. Most importantly, research should be related to human or animal health. Research must protect animal welfare. This means that you can only use the minimum number of the most appropriate species. Federal law requires that all animals be treated humanely and experience as little stress as possible.

Animal experimentation

The search for new drugs has been limited to laboratory tubes. Next, scientists need to test compounds that have shown at least some desirable effects in living animals. When conducting animal experiments, pharmaceutical companies use as few animals as possible and strive to ensure humane and appropriate care. Two or more types are usually tested because one drug can affect more than the other. Such tests show whether the

potential drug has toxic side effects and how safe it is at different doses. The results show the way to human testing and product labeling much later.

Animal experiment ethics

So far, nothing has been found that, like humans, can replace the complex functions of living, breathing, organ-wide systems with lung and circulatory structures. Until such discoveries, animals continue to play an important role, with researchers finding the efficacy and safety of potential new drugs and treatments, as well as infertility, birth defects, liver damage, toxicity and carcinogenicity. We need to help test for unwanted or dangerous side effects such as. Federal law requires non-human animal testing to demonstrate the safety and effectiveness of new therapies before allowing human testing. Not only do we humans benefit from this research and testing, but hundreds of medicines and treatments developed for human use are routinely used in veterinary clinics, making animals longer and healthier.

Health promotion research

The purpose of biomedical research is to transform the findings and observations of laboratories or clinics into new therapies. Biomedical research methods range from predictive research to research involving the entire life system. Research areas include a total population of individual subject's non-human animals, humans, animals and *in vitro* technologies using plant cells and tissues, bacteria, yeast. Includes microorganisms such as viruses and molecular analysis of genes, proteins and other biomolecules. Animal models are used in biomedical research when it is necessary to investigate an entire organism that cannot be performed by humans.

Correspondence to: Shu Kurokiwa, Department of Cardiovascular Science and Medicine, Chiba University of Medicine Chiba, Chuo-ku, Chiba199-1728, Japan, E-mail: kurokiwashu@1728.sc.jp

Received: 03-May-2022, Manuscript No. CPECR-22-16914; **Editor assigned:** 06-May-2022, Pre QC No. CPECR-22-16914 (PQ); **Reviewed:** 19-May-2022, QC No CPECR-22-16914; **Revised:** 27-May-2022, Manuscript No. CPECR-22-16914 (R); **Published:** 03-Jun-2022, DOI: 10.35248/2329-6925.22.12.312.

Citation: Kurokiwa S (2022) Laboratory Experimental Research Studies and Clinical trials on Animals. J Clin Exp Pharmacol. 12:312.

Copyright: © 2022 Kurokiwa S. This is an open access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.