Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

PVG0039 Construction of trial protocols for controlled clinical trials, 1.5 credits

Syllabus approved

2017-10-27

Subjects

Veterinary Medicine

Education cycle

Third cycle

Grading scale

Pass / Failed
The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

Admitted to a postgraduate program in animal science, biology, veterinary medicine, food science, nutrition, nursing, bioinformatics or similar subjects, or to a residency program in veterinary science.

Objective, including learning outcomes

The overall objective of the course is to train students to plan clinical research projects with appropriate methods, and to make the students aware of how different trial protocols relate to different statistical models. After completing the course the student should be able to:
-Formulate aim and hypothesis
-Describe the concepts population, selection and sampling, and to perform sampling correctly
-Perform stratification and randomization
-Handle drop-out and patient withdrawals, and to handle a discontinuation process
-Choose a correct study design and to collect high quality data
-Describe how the study model corresponds to statistical models
-Assess and present results

Content

This course is aimed to those of you who plan to conduct clinical research projects. Designing a good project plan is of crucial importance for creating a project with credible results. The course will review key concepts for scientific experiments, focusing on practical and theoretical design of controlled clinical trials.
The first part will cover the design of the experimental protocol, measurements hypotheses, population and selection, representative sampling, stratification and randomization procedures and study design. A significant part of the course consists of discussions of the various methods used in the planning of clinical trials, and how these methods are related to statistical models.
Central themes of the course will be factors and variables, establishment of database, choice of statistical models and calculation of sample size.
The course covers one week of studies (1.5 ECTS), including lectures, discussions, assignments and student presentations. Attendance is compulsory. An attendance record of at least 75% is required to pass this course and no video link is provided since discussions and other team efforts are important parts of the curriculum.

Requirements for examination

Development of a research protocol within own program.

Additional information

The course will take place in SLU's Centre for Veterinary Medicine and Animal Science on campus Ultuna in Uppsala. The course is given in collaboration with

the network CAReNet, www.slu.se/carenet.

For application: https://www.slu.se/gs-vmas-courses

Responsible department

Department of Clinical Sciences