Impact of specialized feeding regime for replacement gilts on lactation performance

A Data Management Plan created using DMP Assistant

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Project abstract:

Sow milk production is important and it is therefore essential to develop methods to increase milk yield. The main limiting factor for milk production is the number of milk-secreting cells that are present at the beginning of lactation. Rapid mammary development takes place from 90 days of age until puberty. Nutrition, endocrine status and management during this period can have an important impact on mammary development and these factors need to be examined. The objective of this study is to determine the impact of a specialized feeding regime for replacement gilts on their lactation performance. It is common to feed gilts a diet to slow down the growth rate to reduce locomotory problems but no one has examined these feeding programs with regard to their effect on mammary development. The objective of this study is to determine whether feeding programs that aim to restrict gilt growth from 90 days of age until puberty affect lactation performance.

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Data collection

Provide an overview of the data that will be generated, collected or acquired to support this project. If data will be acquired from a third party, specify the source.

The data collected during this project will consist of growth performance measures of pigs (e.g., body weights and feed intake), as well as, results of laboratory analyses of biological samples collected from the pigs (e.g., digestibility, plasma metabolic markers). Data will be contained in excel and csv files and will total approximately 5 MB. The sensitivity of the data collected is low as there are no concerns with privacy, since data is collected from the University of Guelph research pig herd. The research agreement with the industry sponsor is stipulated by the Ontario Ministry of Agriculture, Food and Rural Affairs and therefore, the industry sponsor will not own the data generated during this project. The data will be stored on secured (i.e. restricted) drives housed on servers within the Department of Animal Biosciences, which are backed up every 24 hours, as well as external harddrives to add reduncancy. All files on the server will be organized according to specific analysis to ensure usability and findability

What method(s) of data collection will be employed?

Question not answered.

What types of data will be included?

Question not answered.

What software or digital formats will be used to collect, manage and analyze the data?

Provide an indication of the scope of the data?

Question not answered.

Data storage

Estimate the size of data storage that will be required.

Question not answered.

Where will your data be stored during the collection, collation and analysis phases of the project?

What backup strategy will be employed?

Question not answered.

How will your data files be organized? What file naming conventions will you use? A brief overview or example would be adequate.

Question not answered.

What metadata will be developed for your data? Will there be supplemental documentation prepared to assist with the interpretation and analysis of your data?

Question not answered.

Data archiving and preservation

Will you deposit your data in the UG data repository or an external data repository? If you are opting to not archive your data in a repository, where will your data be housed after completion of your project?

Question not answered.

Discuss any data transformations that will be needed so your data is preserved in appropriate, non-proprietary formats.

Question not answered.

If some of your data will not be preserved, how long will you retain it? Will the non-preserved data be destroyed?

Question not answered.

Sharing and reuse

Will the data that you archive in a data repository be made available for sharing and reuse by other researchers?

Question not answered.

Explain which version of your data or subset of your data will be shared.

Question not answered.

When will your data be available for discovery by other researchers? Will you impose an embargo on publication of your data? If so, please provide details on the duration of the embargo.

Question not answered.

Will you limit who can access your data? If so, who will that be and why are you limiting the data's reuse?

Question not answered.

Are there specific license terms you will assign to users of your data?

Question not answered.

Restrictions/limitations

Are there limitations or constraints on how you manage your data resulting from legal, ethical or intellectual property concerns?

Question not answered.

Would your data need to be anonymized or de-identified before being shared with others?

Question not answered.

Confidential information

What information do you want to include in your DMP that should not be publicly shared?

Question not answered.