

## HHM-PP-18

### TITLE

EVOLUTION OF MEDICATION COSTS FROM 2006-2016 FROM THE FRENCH NATIONAL TECHNICAL AND ECONOMIC DATABASE

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### CONTENT

#### Introduction

Manage medication costs, especially the use of antibiotics, is a major challenge for the pork industry. In fact, this allows for optimizing production costs and monitor the use of antibiotics in order to reduce their contribution to bacterial resistance.

#### Materials and methods

The evolution of expenses for veterinary medication for the last 11 years was analysed in farrow-to-finish (n > 349 farms) and fattening pig farms (n > 101 farms) using the French national technical and economic database (GTE). Total expenses for veterinary medication were divided into four categories: vaccine and livestock management medication (i.e. preventive medication), antibiotic injections, anti-inflammatories and orally administered medication (i.e. curative medication). The evolution of expenses for medication from pig farms inside vs. outside the Brittany region was compared.

#### Results

In farrow-to-finish farms, total medication costs decreased from 2006-2016. Curative medication expenses decreased by 38%, but those for preventive medication increased because vaccine expenses increased by 30%. In fattening farms, total expenses for medication and expenses for orally-administered medication, antibiotic injections and anti-inflammatories also decreased. From 2006-2016, expenses for curative medication decreased by 58%. Since 2013, expenses for preventive medication increased by 28%, especially because vaccine expenses increased by 42%. In 2016, farmers of fattening herds spent more on preventive medication than on curative medication. Farrow-to-finish herds and fattening herds in the Brittany region spent more for preventive and curative medications than those of the same type of herd outside of Brittany. In 2016, differences in expenses for medication on farrow-to-finish farms increased between Brittany and outside Brittany. In contrast, differences in expenses for medication on fattening farms decreased between Brittany and outside Brittany.

#### Discussion & Conclusion

This study confirm the trend observed since 1999: increase of vaccine medication but a strong reduction of curative medication, especially the antibiotics.