A virtual mastitis herd health case

Giving veterinary students the opportunity to selfdirected explore principles of herd health advisory in dairy farms

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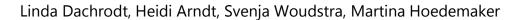


Why develop a virtual herd health case?

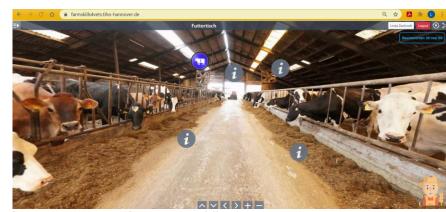
- In Denmark advisory is a big part of the work of practicing cattle veterinarians
- During the veterinary study program however:
 - Only little time in the curriculum at KU for cattle herd health related cases
 - Students rarely get the chance to self directed and at their own pace work through a herd health case
 - ➤ Mostly during the differentiation (~ 6-12 students per year)
 - Students find it difficult to understand the connection between the treatment of individual cases and advisory work

Former experience with virtual teaching about herd health mangement:

FarmSkills4Vets



- Developed at the University of Veterinary Medicine Hannover
- > Aim:
 - Give them the chance to self directed explore a dairy farm
 - Familiarize students with routine management in dairy herds
 - Present basic tools of veterinary herd health advisory



https://www.researchgate.net/publication/355146529_FS4V-Presentation



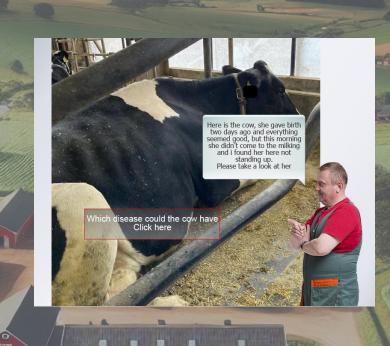
Further development at KU

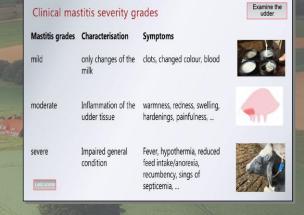
- All students go through "cattle week"
 - Visits to several cattle herds (some also in other courses)
 - > Many practical exercises to use herd health tools (e.g. different scorings)

- Development of a herd health case study
 - level of learning -> applying and analyzing
 - Understanding the connection between individual ainmal medicine and herd health advisory

Virtual case study – Part 1 the individual case





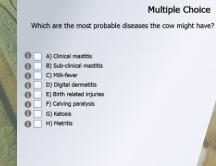




Third step:

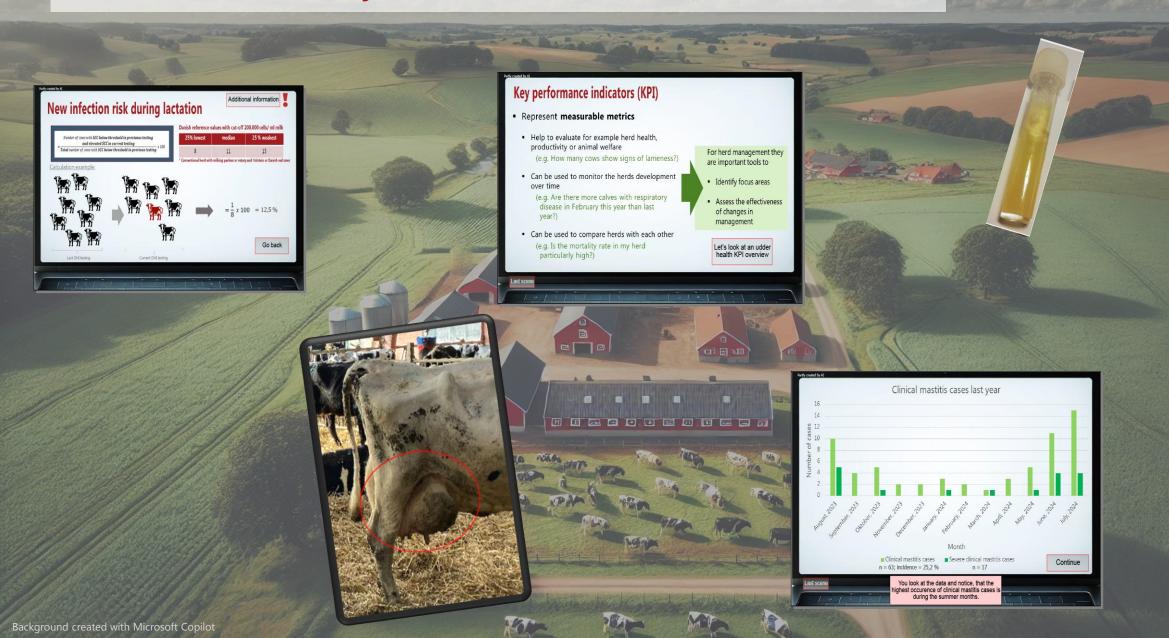
Milk the milk of every quarter into the corresponding cup.

Continue



Submit

Virtual case study – Part 2 the herd level



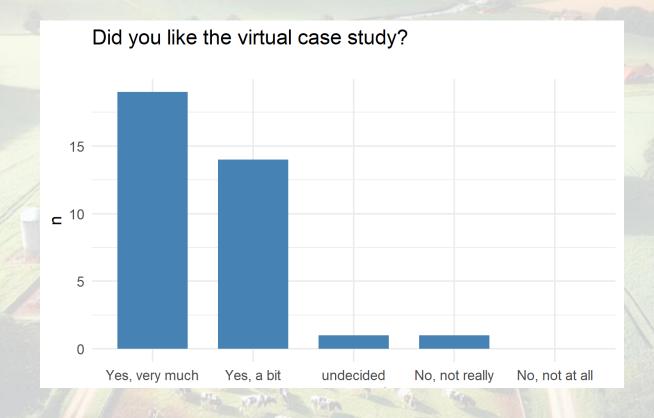


1st test phase

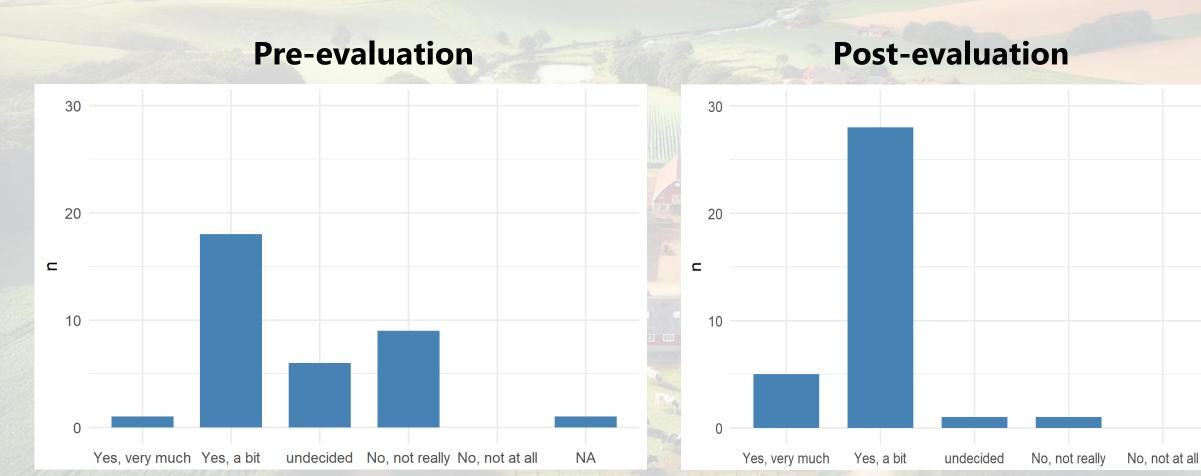
- Access to the virtual case for ~ 170 students taking the course "Herd Health and Public Health (Besætnings- og folkesundhed)" on Absalon
 - Last year bachelor students
- Exam relevant content
- Pre- and postevaluation via Survey exact
 - 50 pre-evaluations
 - 37 post-evaluations
 - > 35 with matching "student code"

Did the students like the virtual case study?

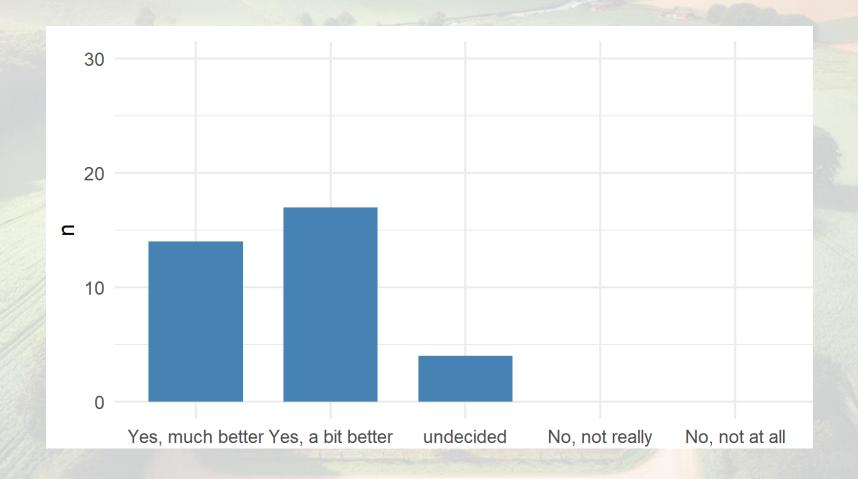
(only those that filled out pre- and postevaluation)



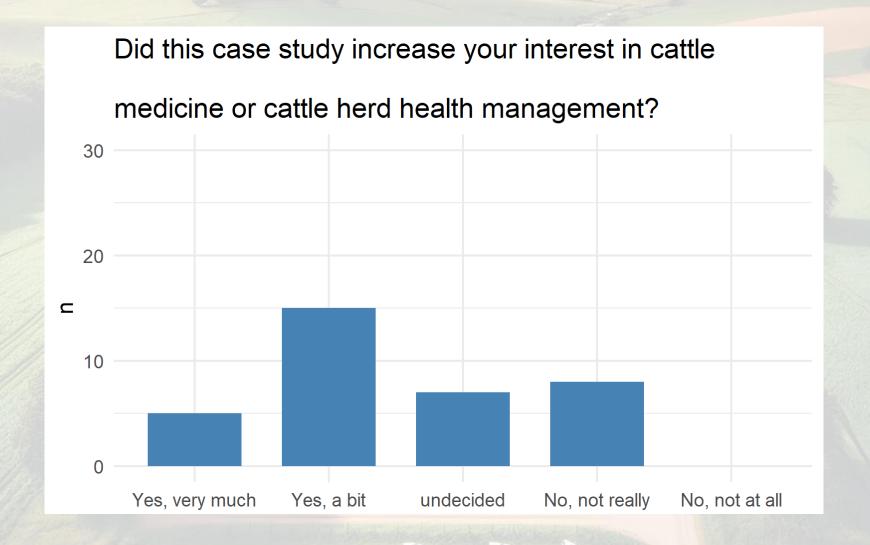
"Do you feel familiar with basic principles of herd health management in cattle farms?"



Did the case study help the students to better understand how to approach a herd level health problem?



Can such a case study help to increase interest in cattle medicine?







Summary

- The students
 - enjoyed the case study
 - felt more familiar with principles of herd health management
 - had a better idea of how to approach a herd health problem
- Plans for the future?
 - Develop more virtual case studies
 - inclusion of other media

Thank you for listening

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Moritz Pfeiffer, PhD student