

MICHIGAN STATE

U N I V E R S I T Y

Dear Cooperator,

Thank you for participating in Quinn Colar's research on intramammary antibiotic treatments of mastitis in 2019 and 2020. Her study assessed the effectiveness of three antibiotic treatment regimens compared to a control to evaluate clinical and bacteriological outcomes. The ultimate goal of this research was to identify the best treatment for both animal health and farm profitability.

Your willingness to participate in the project was vital to the success of the research. The generous gift of time, including staff attendance at trainings, facilitating weekly visits, and milk sample collection was crucial to ensuring robust data collection. We appreciate your confidence in the scientific process in allowing the research team to choose the treatment protocol for cows with mastitis during the study.

Included is a research summary on the results of this experiment. If you have further questions, please contact the Antimicrobial Stewardship Lab or visit our website.

As always, we value your data privacy. All information you have shared with us remains confidential and is anonymized when published. Your data is stored securely and has only been accessed by the research team.



**College of
Veterinary
Medicine**

Antimicrobial
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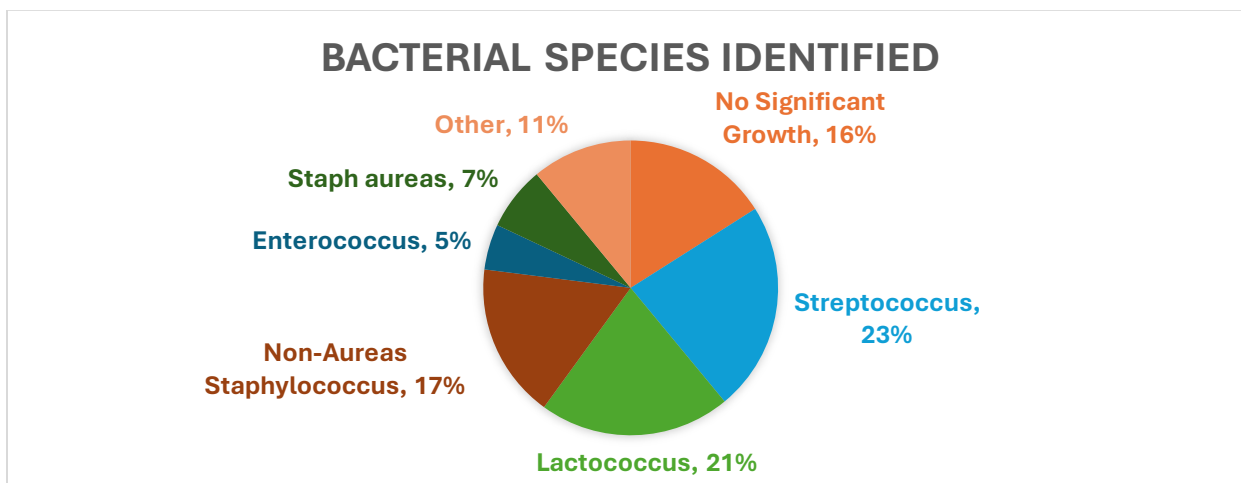
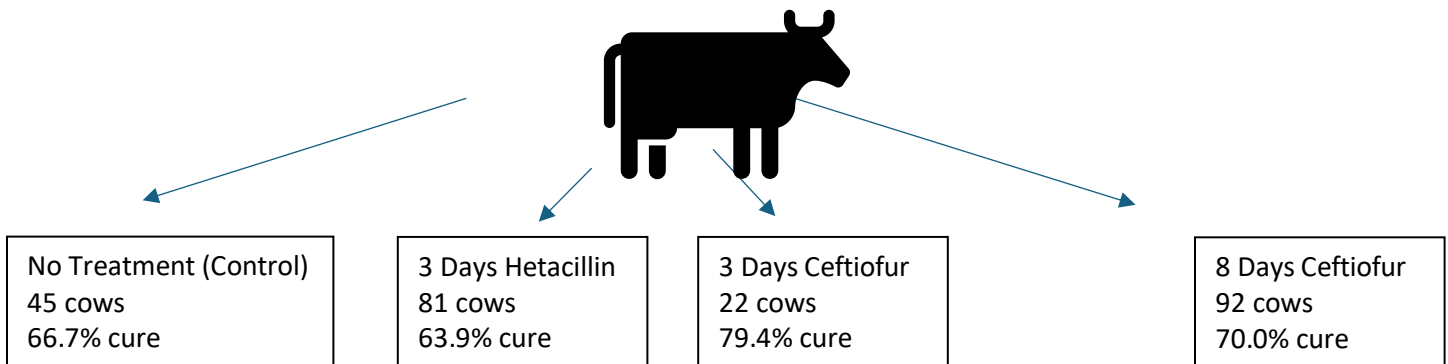
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Again, thank you,
Dr. Pamela Ruegg

Research Summary for “Confirmed bacteriological diagnosis and clearance of non-severe Gram-positive clinical mastitis cases enrolled in a randomized clinical trial using an on-farm culture program.”

Key findings:

- 240 cows at 4 farms with gram positive clinical mastitis were treated
- Clinical cure rate was the same between all four groups. Drug and treatment duration did not affect the outcome
- First lactation cows were more likely than older cows to achieve bacterial cure
- Cows with previous subclinical mastitis and greater somatic cell count before treatment were less likely to be cured
- 37% of bacteria identified were not Strep or Staph



Citation: Kolar, Q.K., Godden, S.M., Erskine, R.J., Ruegg, P.L. Confirmed bacteriological diagnosis and cure of non-severe Gram-positive clinical mastitis cases enrolled in a randomized clinical trial based on results of on-farm culture. JDS Communications 2024. <https://doi.org/10.3168/jdsc.2024-0560>