



25 Research paper

Antimicrobial use policy change in preweaned dairy calves and its impact on antimicrobial resistance in commensal *Escherichia coli*: a cross sectional and ecological study by Afema, J.A., Davis, M.A. and W.M. Sicho
2019 BMC Microbiology 19: 217 (14p.)

in **Significant Impact Group(s)**: AMU reduction strategies \ Legislation and incentives ; Prudent use
AB

Species targeted: Dairy;

Age: Young;

Outcome Parameter(s): Declining trend in resistance to most antimicrobials during and after policy changes

Summary: Based on feedback and interaction between study investigators, farm management and consulting veterinarians, a new policy was implemented to reduce antimicrobial use in calves. We investigated the effects of these policy changes in antimicrobial use on resistance in commensal *Escherichia coli*. In general, there was a declining trend in resistance to most antimicrobials during and after policy changes were implemented, except for ampicillin, ciprofloxacin, ceftiofur and gentamicin.

25 Research paper - Afema - 2019 - Antimicrobial use policy change in preweaned dairy calves and its impact on antimicrobial resistance in commensal Escherichia coli_ a cross sectional and ecological study

Where to find the original material:

<https://link.springer.com/article/10.1186/s12866-019-1576-6>; <https://doi.org/10.1186/s12866-019-1576-6>

Country: US