



Danielle A. Mzyk



Graduate Research Assistant
(DVM/PhD Candidate)

Ruminant Pharmacology

Research emphasis:

Danielle Mzyk's primary clinical and research interests revolve around pathophysiology and treatment of diseases affecting calves, clinical medicine of ruminants with a specific focus on calf health and ruminant pharmacology. Her research is focused on determining the effect of age and disease on drug distribution and efficacy in cattle in order to facilitate safe and effective dosing strategies for young calves. She also has expertise in residue avoidance in food producing species.

Applications:

- Ruminant Pharmacology
- Food Animal Residue Avoidance
- Dairy Calf Health and Welfare

Research Strengths:

- Sample Analysis - Chromatography
- PK Modeling
- In-vivo drug studies

Publications and Abstracts:

Mzyk, D.A., Gehring, R., Tell, L., Vickroy, TW, Riviere, JE, Ragan, G, Baynes, RE, Smith, GW. (2017) "Considerations of extra label drug use in calves." Journal of the American Veterinary Medical Association. In press.

Mzyk, D.A., Martinez, M., Baynes, RE, Smith G. (2016). "Pharmacokinetics and distribution in interstitial and pulmonary epithelial lining fluid of danofloxacin in ruminant and preruminant calves." Journal of Veterinary Pharmacology and Therapeutics (Epub).

Lindquist, D, Baynes, RE, Smith G. (2015). "Pharmacokinetics of Intramammary Hetacillin in Dairy Cattle Milked Three Times per Day." Journal of Dairy Science. 98 (3); 1856-61.

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