## Effect of Route of Administration of Dinoprost Tromethamine on Serum Profiles of PGFM and Progesterone in

## **Lactating Holstein Cows**

Mezera, M. A.<sup>1,2</sup>, M. R. Lauber<sup>1</sup>, A. D. Beard<sup>1,2</sup>, E. M. Cabrera<sup>1</sup>, M. C. Wiltbank<sup>1</sup>, and P. M. Fricke<sup>1</sup> <sup>1</sup>Departments of Animal Sciences & Dairy Science, University of Wisconsin-Madison, Madison, WI 53706, USA <sup>2</sup>Endocrine Reproductive Physiology Program, University of Wisconsin-Madison, Madison, WI 53706, USA



Dinoprost tromethamine, an analogue of prostaglandin F2 alpha (PGF), is commonly used in ovarian synchronization protocols, and is approved for use both via subcutaneous (SC) and intramuscular (IM) administration, though there is little research exploring physiologic differences between the two routes of administration.

Departments of

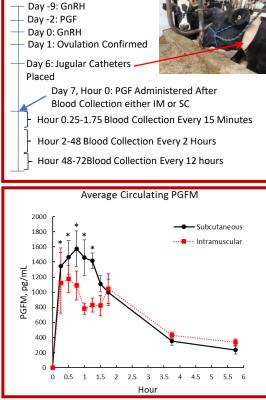
UNIVERSITY OF WISCONSIN-MADISON

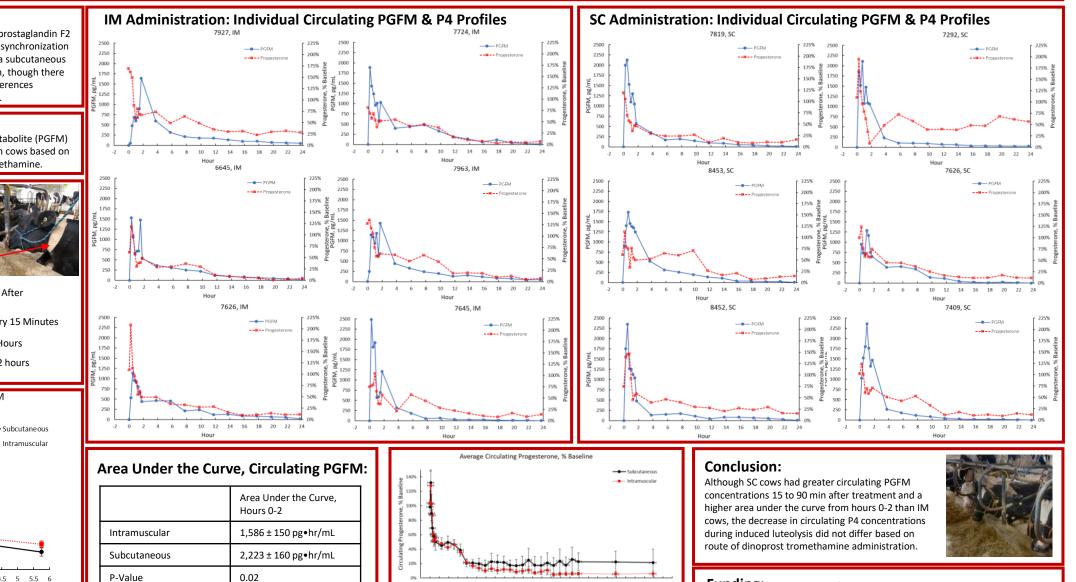
Animal Sciences & Dairy Science

## Objective:

Experimental Design:

To compare profiles of circulating PGF metabolite (PGFM) and progesterone (P4) in lactating Holstein cows based on route of administration of dinoprost tromethamine.





Funding: NIFA USDA Hatch project 1019532

**Endocrinology & Reproductive** 

**Physiology Program**