



Vitamin A

- Supports neonatal immunity
- Calves are born with limited reserves¹
 - Calf is born with approx. 10 days of reserve VitaminA (10,000 IU/100lbs)
- Rely on colostrum for additional supplementation
- Vitamin A deficiency
 - Reduced performance
 - Impaired immune function

Calves with less than adequate vitamin A levels (less than 0.14 µg/mL) were 2.8 more times more likely to die (P = 0.02)

*Factors associated with serum vitamin A and vitamin D concentrations in beef calves from Alberta and Saskatchewan and the relationship between vitamin concentrations and calf health outcomes
Cheryl L. Waldner and Fabienne D. Uehlinger*



Vitamin E

- Potent antioxidant
- Immunostimulatory function
- Rely on colostrum for supplementation
- Dam can not provide optimal Vitamin E transfer

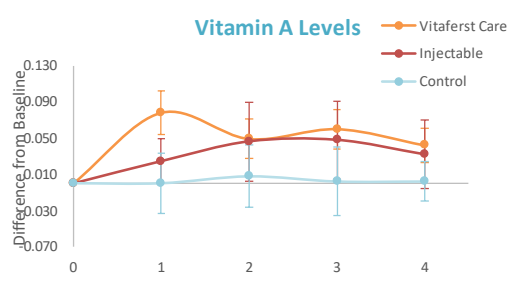
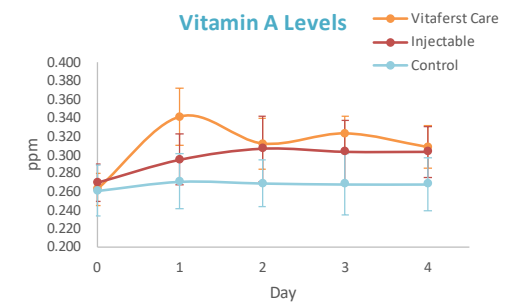
Calves with less than adequate vitamin E Levels were 3.2 times more likely to be treated for enteritis than calves with higher vitamin E concentrations (P = 0.00001).

*Factors associated with serum vitamin A and vitamin D concentrations in beef calves from Alberta and Saskatchewan and the relationship between vitamin concentrations and calf health outcomes
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Vitamin A Levels in Newborn Calves

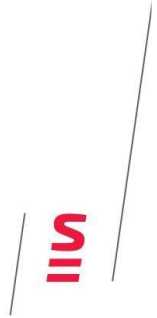
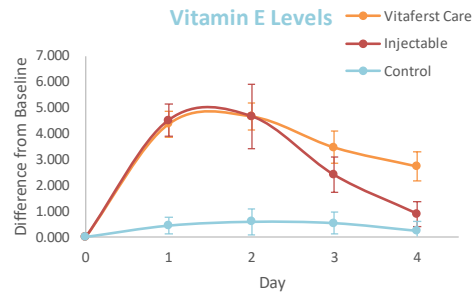
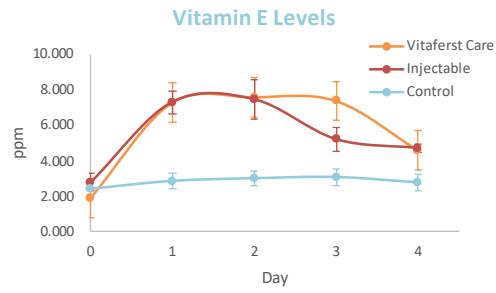
Treated with Vitaferst (n=10)
Injectable Selenium Vitamin E/Vitamin A/D (n=10)
or Untreated (n=10)





Vitamin E Levels in Newborn Calves

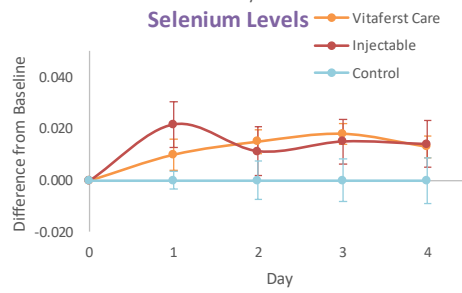
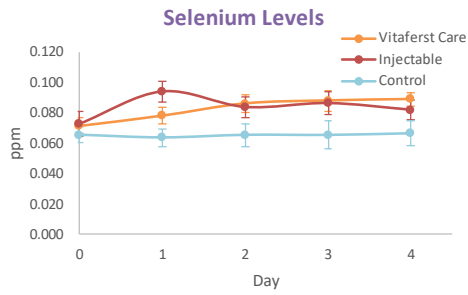
Treated with Vitaferst (n=10)
Injectable Selenium Vitamin E/Vitamin A/D (n=10)
or Untreated (n=10)





Selenium Levels in Newborn Calves

Treated with Vitaferst (n=10)
Injectable Selenium Vitamin E/Vitamin A/D (n=10)
or Untreated (n=10)





Discussion and Conclusion

- Vitamin A and E Supplementation with Vitaferst-Care
 - Calves are born with very low reserves of Vitamin A and E
 - Reserves are rapidly depleted and animals become anemic
 - Supplementation of Vitamin A and E with VitaFerst at day 1 corrects the deficiency for at least 21 days
 - May want to redose at 3-4 weeks of age at branding/tagging etc
- Selenium Supplementation with Vitaferst-Care
 - Oral Selenium (as VitaFerst) provide sufficient Selenium for at least the first 3 months
 - It provides comparable Selenium to injectable selenium
 - May want to redose at 3-4 weeks of age at branding/tagging etc