



66 SCIENTISTS SAY

Choline is a Required Nutrient for Supporting Calf Health & Performance

Calves born to choline-supplemented dams have the added benefit of improved growth and health.

-Dr. Heather White, Tri-State Dairy Nutrition Conference, 2023





New science demonstrates choline is a required nutrient that can help improve calf health and growth. New research from the University of Florida and the University of Wisconsin shows that calves from dams supplemented with ReaShure grew faster and were healthier than those from cows that did not receive ReaShure.

0.09 lb/d increase in average daily gain (0 – 350 d) from calves born to dams fed ReaShure during late gestation – Zenobi et al., 2018a

 0.10 lb/d increase in average daily gain (0 – 350 d) from calves born to dams fed ReaShure during late gestation – Zenobi et al., 2022 (personal communication)

- More milk replacer consumed in first 21 days by calves from dams fed ReaShure (RPC effect, P < 0.01; RPC effect × age interaction, P < 0.01)
- More starter feed consumed in first 21 days by calves from dams fed ReaShure (RPC effect, P = 0.08; RPC effect × age interaction, P = 0.21)

CALF GROWTH

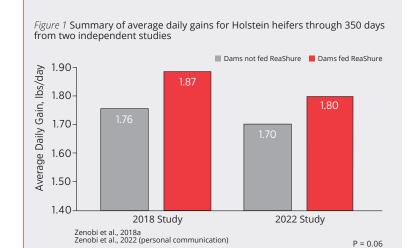
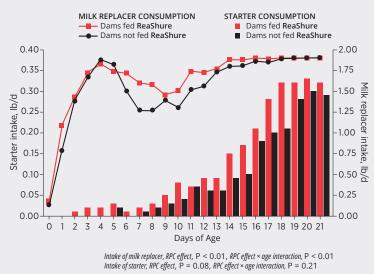


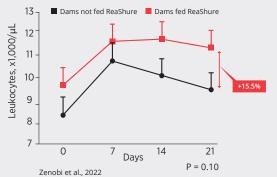
Figure 2 Late gestation exposure to choline biomolecules increased DMI of milk replacer and starter during the first 21 d of age in heifers



Zenobi et al., 2022

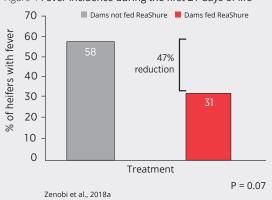
CALF HEALTH

Figure 3 Heifers born from ReaShure-supplemented dams had increased concentrations of white blood cells (In Utero Effect)



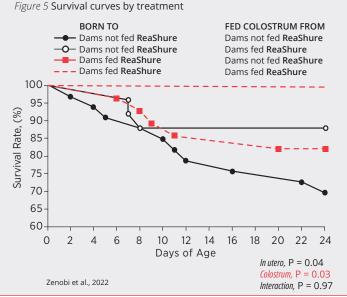
• White blood cells tended to be higher (15.5%) in calves from dams fed ReaShure, which is indicative of an elevated immune response

Figure 4 Fever incidence during the first 21 days of life



• Incidence of fever in the first 21 days of life tended to be less (47%) in calves from dams fed ReaShure

CALF SURVIVAL



- Calves experienced significant health challenges and mortality during the trial period
- Calves from cows fed ReaShure and that consumed colostrum from cows fed ReaShure had no mortality
- Calves from cows NOT fed ReaShure and that consumed colostrum from cows NOT fed ReaShure had a 30% death loss
- The other two treatments were in the middle with 16% and 18% mortality

Choline is recognized by scientists as a required nutrient that can contribute to fetal programming and gene expression. Research continues to demonstrate the far-reaching benefits of supplementing choline during the short, but crucial transition period. Supplementing the transition cow with ReaShure can be a sound investment for the future of virtually every dairy.*

Download the complete research summary featuring three studies by snapping the QR code at right.





Milk Production

Zenobi et al., 2018a Arshad et al., 2020 Bollatti et al., 2020a Holdorf et al., 2023 Swartz et al., 2023

Healthy Transition

Lima et al., 2012 Zenobi et al., 2018b Arshad et al., 2020 Arshad et al., 2022

Choline is a Required Nutrient for Essentially Every Cow

Zenobi et al., 2018a Zenobi et al., 2018b Arshad et al., 2020 Bollatti et al., 2020 Potts et al., 2020 Swartz et al., 2022 Holdorf et al., 2023 Swartz et al., 2023 Sourtz et al., 2023

Calf Health & Growth

Zenobi et al., 2018a Zenobi et al., 2022 Holdorf et al., 2023

Improved Colostrum Quantity

Zenobi et al. 2018a Bollatti et al. 2020b Swartz et al. 2022 Holdorf et al. 2023



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