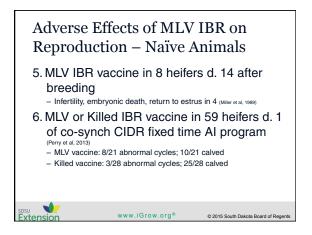
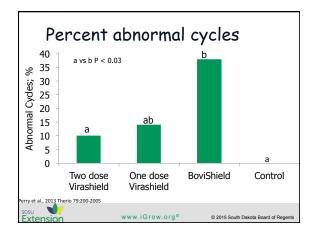
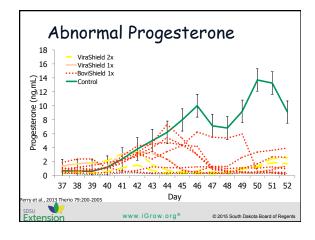
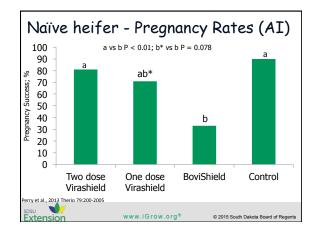


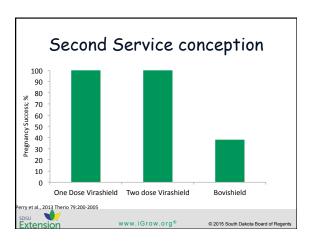
Adverse Effects of MLV IBR on Reproduction – Naïve Animals 1. Live IBR injected into 8 heifers d. 1 after estrus Ovarian necrosis in 7 (VanderMaaten & Miller, 1985) 2. MLV IBR vaccine IV into 8 heifers d. 1 after estrus CL and ovarian necrosis in 8 (VanderMa 3. MLV IBR vaccine IV into 18 heifers d. 4 after 2nd PGF CL and ovarian necrosis, inflammation in 14 (Smith, et al., 1990) 4. MLV IBR vaccine IV - or control - into 19 heifers day of 2nd PGF (Chiang, et al, 1990) - Vaccinated heifers 3/10 calved, Control heifers 9/9 calved www.iGrow.org® © 2015 South Dakota Board of Reger

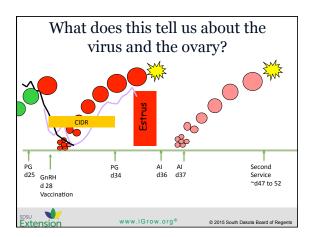


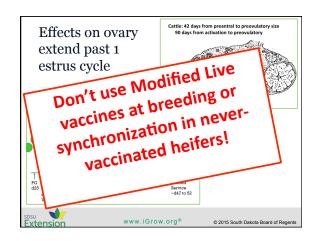


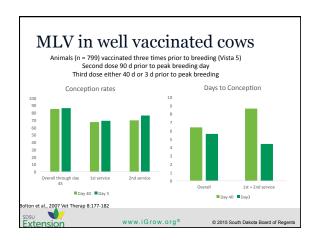


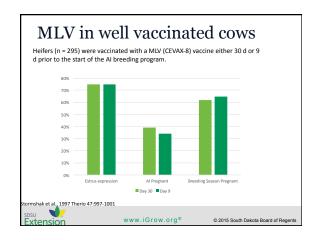


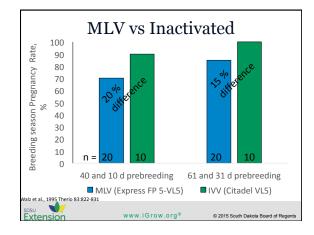


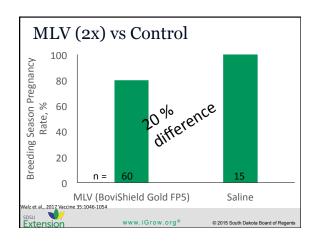


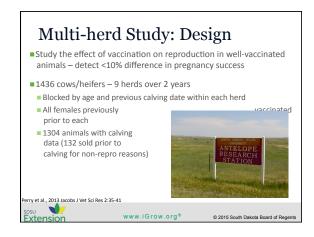


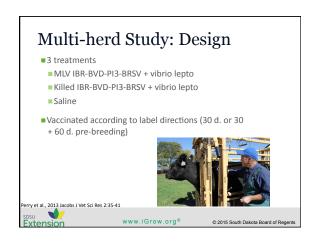


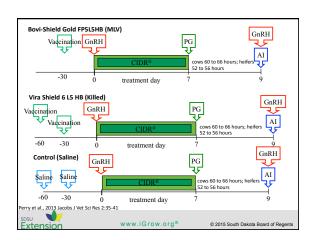


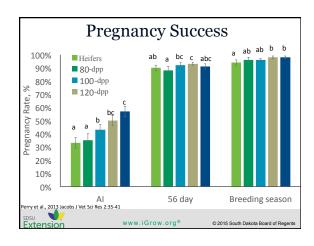


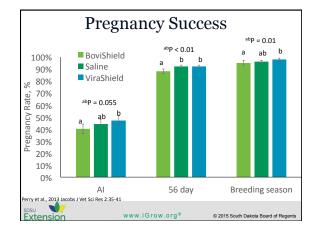


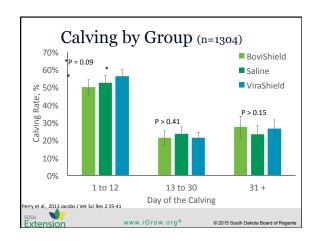










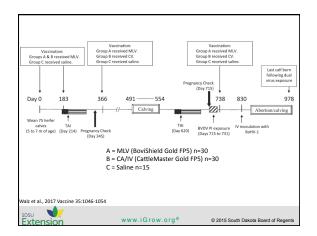


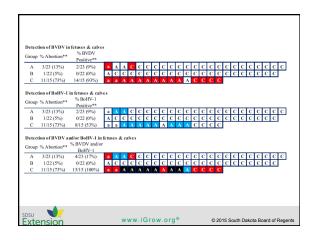
Multi-herd Study: Summary • Al conception rates numerically better in KV cows vs. MLV cows (p=.055) - Saline group intermediate • 56-day conception rates statistically better in KV and saline cows vs. MLV cows (p<0.01) • Breeding season pregnancy success statistically better in KV cows vs. MLV cows (p<0.01)

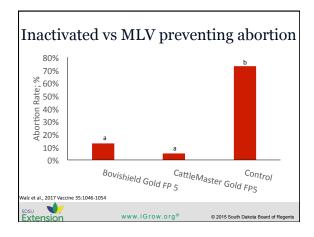
Which vaccine group has the best protection against IBR and BVD?

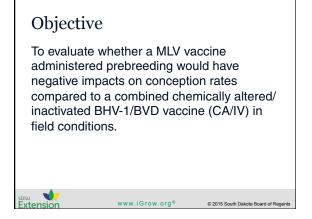
A. Modified Live vaccine pre-breeding

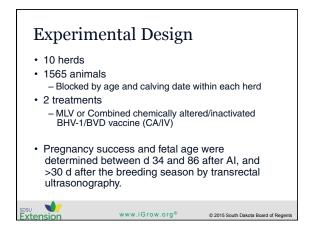
B. Killed vaccine pre-breeding

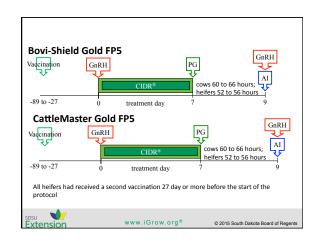


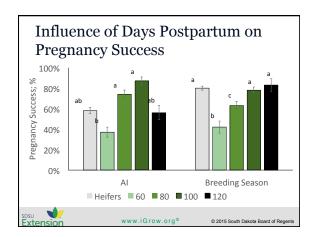


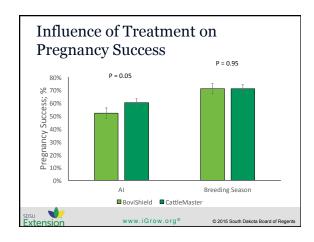


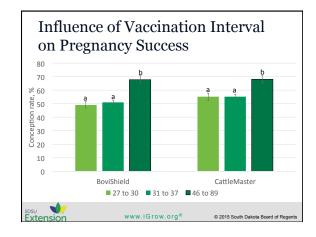


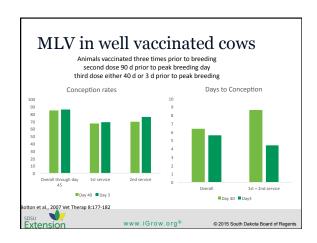


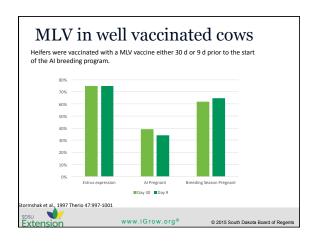


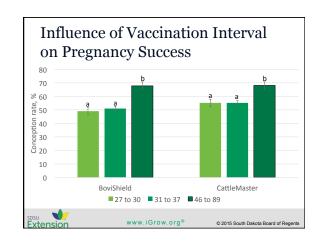


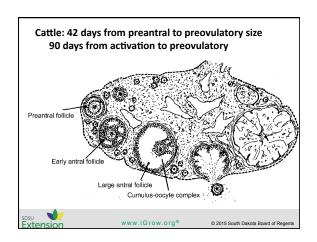


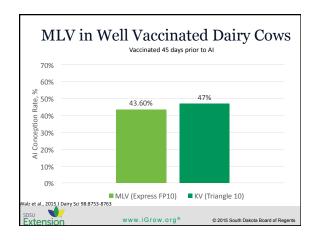












Conclusions

- · MLV reproductive vaccines have the potential to adversely affect reproduction
- · Evidence for adverse effects of MLV in wellvaccinated herds is building
 - Responses may differ among herds
- · Proper heifer pre-conditioning helps mitigate these effects
- Modified Live Better cell-mediated immunity
 Killed Vaccines Better antibody-mediated immunity
- Annual KV boosters = protection against disease
- · Before changing programs: get veterinary input



