Background

- Calving interval of Japanese Black beef cow is being extended
- Cow number per farm is increasing
- Lowered conception rate
- Aging of farmers
- Lack of reproductive management (Heat detection is not well-done.)

Effect of CIDR to prevent premature ovulation

- Ovulation occurs before timed AI when Ovsynch was started a few days before ideal regression
- Addition of CIDR in Ovsynch can prevent earlier follicular maturation and ovulation before AI

Effect of CIDR to inhibit PGF2α hyper-secretion

- PGF2α hyper-secretion
- Reduced uterine activity
- Improved fertility

Background/Objective

- Ovulation synchronization・timed-AI (Ovsynch)
- Lowered conception rates occurred by Ovsynch in cases of latter stage of estrus cycle and ovarian quiescence

Conclusions

- Ovulation synchronization: timd-AI protocols with Ovsynch+CIDR improved the conception rate and economic gain.
- Timed-AI by Ovsynch+CIDR protocol: Effect of CIDR to prevent premature ovulation and to inhibit PGF2α hyper-secretion.

Publications

- Development of ovulation synchronization and timed-AI in Japanese Black beef cows
- Collaborative research between Osaka Prefecture University (Lab of Theriogenology) and Hyogo Prefecture Northern Center of Agricultural Technology
- Development of ovulation synchronization and timed-AI in Japanese Black beef cows
- Prevailing of Ovsynch+CIR protocol and economic gain (NOSAI Hyogo Awaji Island)