

## Results of embryo transfer with Hanwoo embryos produced *in-vivo* or *in-vitro* to Holstein cows as recipients

Hoon Park, Yong-Jun Kim\*, Dong-Su Shin<sup>1</sup>, Hae-Lee Lee<sup>1</sup>, Yong-Su Kim<sup>1</sup>,  
Sue-Hee Kim

*College of Veterinary Medicine, Chonbuk National University,*

<sup>1</sup>*Livestock Breeding Station, Jeonbuk Livestock Development & Research Institute*

Hanwoo embryos produced *in-vivo* or *in-vitro* were transferred to Holstein cows as recipients. The rate of pregnancy, the rate of delivery, and the rate of twin offspring were investigated according to the embryo produced *in-vivo* or *in-vitro*, and the number of embryos transferred to a recipient. All the embryos were fresh embryos. The total number of Holstein recipients were 77 for *in-vivo* and 1,073 for *in-vitro* embryos.

The rate of pregnancy diagnosed by rectal palpation at 60-90 days after transfer with *in-vivo* or *in-vitro* Hanwoo embryos to Holstein cows were 55.8 and 38.2%, respectively.

The rates of delivery of the recipients according to transferred embryos produced *in-vivo* or *in-vitro* were 88.4 and 75.6%, respectively, and the rates of abortion were 10.5 and 9.7%.

The pregnancy rates between transfer with one or two embryo for both produced *in-vivo* and *in-vitro* were 38.3 and 46.1%, respectively and the rates of abortion were 7.9 and 10.1%, respectively.

The rates of twin calves according to embryo *in-vivo* or *in-vitro* were 15.6 and 30.4%, respectively.

The pregnancy rates according to the corpus luteum grades(A, B) were 41.8% and 36.3%. The pregnancy rates according to the transfer sites(A, B) were 41.0% and 33.0%. The pregnancy rate according to the transfer day of day 6, 7 and 8 after estrous detection were 45.5%, 38.7% and 39.7%, respectively.

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\* Corresponding author: yjk@chonbuk.ac.kr