

# The effects of transcervical and laparoscopic artificial insemination using frozen-thawed semen on pregnancy rate, delivery rate and the average litter size in goats <sup>(1)</sup>

Ting-Chieh Kang <sup>(2)</sup> Perng-Chih Shen <sup>(3)</sup> Hsiang- Lin Hsing <sup>(4)</sup> Geng-Jen Fan <sup>(5)</sup>  
Pi-Hua Chuang <sup>(6)</sup> Fung-Hsiang Chu <sup>(2)</sup> Hsin- Hung Lin <sup>(7)</sup> Sheng-Yang Wu <sup>(8)</sup>  
Chia-Chieh Chang <sup>(8)</sup> Lih-Ren Chen <sup>(2)</sup> and Yu-Hsin Chen <sup>(2)(9)</sup>

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## Abstract

The aim of this study was to evaluate the influences of transcervical and laparoscopic artificial insemination with frozen-thawed semen on pregnancy rate, delivery rate and the average litter size in goats. The results shows that AI using frozen semen of  $100 \times 10^6$  spermatozoa/mL, the resulted pregnancy rate, delivery rate and average litter size of the transcervical and laparoscopic artificial insemination was 56.5% (12/23) vs. 71.4% (15/21), 91.6% (11/12) vs. 80.0% (12/15) and 1.3 (14/11) vs. 1.7 (20/12), respectively. The resulted pregnancy rate, delivery rate and average litter size resulted from laparoscopic artificial insemination of single or double uterus horns insemination was 60.0% (6/10) vs. 50.0% (5/10), 100% (6/6) vs. 80.0% (4/5) and 1.7 (10/6) vs. 2.0 (10/5), respectively.

Key words: Artificial insemination, Laparoscope, Goat.

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(1) Contribution No. 2221 from Livestock Research Institute, Council of Agriculture, Executive Yuan.

(2) Physiology Division, COA-LRI, Hsinhua Tainan, 712, Taiwan, R.O.C.

(3) Department of Animal Science, National Pingtung University of Science and Technology, Neipu, Pingtung, 912, Taiwan, R.O.C.

(4) Tainan City Animal Health Inspection and Protection Office, Tainan city government, Tainan, 708, Taiwan, R.O.C.

(5) Animal Nutrition Division, COA-LRI, Hsinhua Tainan, 712, Taiwan, R.O.C.

(6) Hualien Animal Propagation Station of COA-LRI, Hualien County 970, Taiwan, R.O.C.

(7) Kaohsiung Animal Propagation Station of COA-LRI, Pingtung County 900, Taiwan, R.O.C.

(8) Taitung Animal Propagation Station of COA-LRI, Taitung County 950, Taiwan, R.O.C.

(9) Corresponding author, E-mail: yhchen@mail.tlri.gov.tw.