

Influence of Ovarian Side and Initiation Time of First Aspiration with Relation of Transvaginal Follicular Aspiration in HF x Sahiwal Cows

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Abstract

This study was carried out to observe the influence of ovarian side and initiation time of first aspiration during OPU programme in HF X Sahiwal cows. Eight cows were randomly divided in to two groups (A and B) each consisting of 4 donors. Follicular aspiration was initiated on day 4 (first follicular wave) and day 13 (second follicular wave) of estrous cycle, respectively. From group-A donors, total 200 follicles were aspirated in eight sessions with a mean of 6.25 ± 2.05 per animal per session of which 52.50 (105/200) and 47.50 (95/200) per cent follicles were from left and right ovary, respectively. The mean numbers of small, medium and large follicles aspirated were 2.06 ± 0.87 , 2.65 ± 0.88 and 1.53 ± 0.91 with the recovery rate of 33.0 (66/200) (3–5 mm), 42.50 (85/200) (6–9 mm) and 24.50 (49/200) (=10 mm) per cent, respectively. From group-B donors, total 179 follicles were aspirated of which 48.60 (87/179) and 51.40 (92/179) per cent follicles were from left and right ovary, respectively. The mean number of aspirated follicles per cow per session from group-B donor cows was 5.59 ± 1.03 and the mean numbers of small, medium and large follicles aspirated 1.87 ± 0.96 , 2.5 ± 0.66 and 1.25 ± 0.64 with the recovery rate of 34.07 (61/179), 44.94 (80/179) and 21.22 (38/179) per cent, respectively. The number of follicles from left and right ovaries of different categories among group A and B donor cows did not differ significantly ($P > 0.05$). This study showed that there cows no any influence of ovarian side and initiation time on follicular aspiration.

Keywords: Ovary, Transvaginal Follicular Aspiration, Follicle, Reproductive organ.