

Granulosa Cell Tumor in a Thoroughbred Mare

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Signalment: A 8-year-old Thoroughbred mare showing anestrus for longer than 6-months was referred to Veterinary Medical Teaching Hospital of Seoul National University. For 6-months, the mare had received hormonal therapy with PGF₂ had not responded to this therapy and had not shown estrous behavior.

Results: On rectal palpation, the left ovary was enlarged (6.0 × 8.0 × 5.0 cm), but the right one was small. Transrectal ultrasonographic examination of the left ovary revealed a mass composed of multiple, irregular size and shaped follicles. The mass was suspected to granulosa cell tumor (GCT) according to her history and examinations. Ovariectomy was performed through the left flank in a standing position under sedation with medetomidine (4 μg/kg, IV), and systemic analgesia with butorphanol (0.01 mg/kg, IV) and infiltration anesthesia of incision site with lidocaine (6 × 20 ml, 2%). Penicillin (10,000,000 IU) was administered intramuscularly for three days. After surgery, the mass was diagnosed as GCT with histopathological examination. The mare was recovered without any problem.

Clinical relevance: GCT is the most common ovarian tumor of the mare, and many cases do not respond to hormonal therapy. But in the field of Korea, ovariectomy is not common procedure. Ovariectomy is an important and a simple procedure to treat of the breeding ability of the mares with GCT.

Key words: granulosa cell tumor, GCT, ovariectomy, mare

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