Feline (female) – Neuter Status or Ovarian Remnant Syndrome

Indications

Determination of neuter status (e.g. stray or rescue cats).
Confirmation of the presence of functioning ovarian tissue in queens suspected of having ovarian remnant syndrome.

Notes

In females, the Anti-Müllerian hormone (AMH) is produced exclusively in the ovaries.
In female cats, the concentration of AMH is highest up to 3 months of age and then declines with age and it is significantly lower in cats older than 12 months. However, detectable levels of AMH in serum indicate the presence of ovarian tissue.
Progesterone is produced by a developing corpus luteum after ovulation has occurred, and elevated values may indicate pregnancy, a luteal phase (diestrus), an ovarian lesion, or an exogenous source. However, cats are classified as induced-ovulatory and unlike dogs, they don't have an increased progesterone pre-ovulation or have a luteal phase with each cycle.
Although less common, there are reports of spontaneous ovulation in cats without mating.
Corpora lutea don't produce AMH, therefore, an ovarian remnant that consists mostly of functional luteal tissue might not secrete a sufficient amount of AMH to be detected.
The determination of AMH alone or combined AMH and progesterone concentrations in a single serum sample can be useful diagnostic tests for spayed cats suspected to have an ovarian remnant.
AMH measurement should be performed no sooner than 30 days after ovariohysterectomy.

Protocol

- This test can be done at any point in the oestrus cycle.
- Collect a blood sample (1-2 ml of blood in plain/gel tube).
- Ensure the sample has clotted and centrifuge the samples 30-120 minutes after collection.
- For samples collected in plain tubes, please separate the serum into another plain tube (this step is not necessary for samples collected in gel tubes).
- Please label the tube with the patient's name and include the patient history, including drug history, on the request form.
- Submit the sample for either **Progesterone and Anti-Mullerian Hormone (PGT+AMH)** (preferred) or **Anti-Mullerian Hormone (AMH).**

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