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Nature of the Clearance of Exogenous Testosterone and Progesterone in Ejaculated Bovine Semen

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Plasma and semen concentrations of androgens and progestins were not influenced by repetitive ejaculation in bulls. Within 20 minutes after the injection of testosterone (100 mg Intravenously), plasma concentration of androgen (mean \pm SEM) was 698 ± 240 ng/ml (92% testosterone) and semen concentration of androgen was 27.7 ng/ml (76% testosterone). Within 20 minutes after the injection of progesterone (100 mg intravenously), plasma concentration of progestin was 2226 ± 635 ng/ml (96% progesterone) and semen concentration of progestin was 68.2 ± 2.2 ng/ml (68% progesterone). Thereafter, the concentrations of androgens and progestins in both plasma and semen steadily declined. Semen/blood concentration ratio values for progestins and androgens were similar to each other during the experimental period. It was concluded that testosterone and progesterone were readily transferred to the ejaculate from the blood.

Key words: progesterone, testosterone, blood, semen, ejaculated

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