Abstract

FAJRIATI RAFELIA HAPSARI. Reaction of Electroejaculation Stimulation and Semen Characteristic of Domestic Cat (Felis catus). Under direction of R. IIS ARIFIANTINI and Rr SOESATYORATIH.

This study aims to determined the characteristics of domestic cats (Felis catus) semen collected by electroejaculator. Semen was collected from 21 sexually mature tomcats. Stimulation of electroejaculator were 1 V, 2 V and 3 V with 10 repetition at each voltage with a time of stimulation 5 seconds and rest 5 seconds (on-off). During stimulation reaction of the cats were recorded. Ejaculate semen was evaluated macroscopically and microscopically. The results showed at any level of stimulation lead to different clinical symptoms. At 0 V stimulation the cat was unconsciousness; at 1 V stimulation the abdominal muscles was contracted, muscles around prepuce was twitched, legs trembled and convulsions, cats did inspiration and gasped when the stimulation was on, then returned to normal when stimulation stopped; at 2 V stimulation abdominal contractions got stronger, the cats were vocalize, the hind legs and prepuce were contraction, and the penis was erected; at 3 V stimulation the vocalize was louder, contraction of the hind legs was getting stronger, cloning occurred and then ejaculation; at 0 V cat was breath more deeply and returned to normal. Cats were erectioned at 57.14 ± 26.63 seconds and ejaculation was occured at 94 ± 27.85 second. Macroscopic evaluation demonstrated that semen volume was 48.09 ± 17.71 mL, whitish in color, pH 7 ± 0.65, and the semen consistency was aqueous. Microscopic evaluation demonstrated no visible of mass movements due the slightly of sperm concentration. Semen motility was 68 ± 9.09% with the individual scoring of 4.39 ± 0.61. Viable spermatozoa was 86.84 ± 6.93% with a spermatozoa concentration was 387.4 x 10^6 ± 457.93 x 10^6/ml and sperm normality 87 ± 4.71%

Keywords: cat semen, electroejaculator, stimulation, evaluation.