

THE EFFECT OF TEMPERATURE AND EXTENSION MEDIA ON MOTILITY OF CAPRINE SPERMATOZOA

M. O. Akusu, O.O. Ajala and S.A. Olurode

Department of Veterinary Surgery and Reproduction, University of Ibadan, Ibadan, Nigeria.

Abstract

The survivability of caprine spermatozoa was compared in semen extenders prepared from the conventional egg-yolk citrate, and goat-milk citrate. Motility was comparable in both extenders during the first 24 hours post extension, when extended ejaculates were stored at either room temperature (28°C) or refrigerator temperature (5°C). During the next 24 hours motility in goat milk citrate extender at 5°C was significantly superior ($P < 0.05$) than that stored at 28°C and in egg-yolk citrate extender at both investigated temperature ($p < 0.05$). Beyond 72 hours of storage motility in both extenders and at both temperature was less than 40%. These results showed that goat milk can conveniently replace egg-yolk as a medium for semen extension.