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Effect of cinnamon oil administration on semen characteristics and sexual libido of Barki ramsEl-Azrak KM, Hashem NM and Sallam SM
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The aim of this study was to investigate effects of cinnamon oil (*Cinnamomum cassia*) on semen characteristics and sexual libido of Barki rams. Twelve mature rams (15 months old, 59.25 kg BW) were randomly divided into two equal groups (n=6). First group served as a control in which animals were given 1.5 ml tap water /head/day, while the second group animals were orally administered 1.5 ml cinnamon oil / head / day for eight consecutive weeks. After this period, semen ejaculates were collected for another eight weeks. The results showed that oral administration cinnamon oil increased ejaculate volume (P = 0.0004), sperm concentration (P = 0.0001), total sperm (P= 0.001) and total functional sperm fraction (P < 0.0001). Also, cinnamon oil enhanced the percentage of live sperm (P = 0.001), decreased percentage of dead sperm (P = 0.001) and percentage of abnormal sperm (P = 0.019). Moreover, animals libido was enhanced by using

cinnamon oil (P = 0.0014) while percentage of forward motility tended to decrease in treated group (P = 0.081). Contrariwise, semen initial fructose concentration didn't alter among groups (P = 0.221). In conclusion, cinnamon oil not only enhanced rams sexual libido, but it also improved the physical characteristics of semen ejaculates.

**Biography**

El-Azrak KM has completed his PhD from Alexandria University Egypt, cooperated University of Sao Paulo, Brazil. Now he is Assistant Professor of animal physiology at Animal and Fish Production Department, Faculty of Agriculture, University of Alexandria, Egypt. He has published more than 15 papers in international scientific journals.

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