Effect of combination of vitamin E and selenium injections on reproductive performance and blood parameters of Ossimi rams

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Abstract:

The objective of this study was to determine the effect of the combination of vitamin E (Vit E) and selenium (Se) injection on semen quality, testes measures and some blood parameters of Ossimi rams. Fourteen mature healthy Ossimi rams were randomly divided into two equal groups (7 rams in each). The first group served as control (CG), while 2nd group served as treatment group (TG). Rams of the TG were treated twice weekly with 5 mg sodium selenite and 450 mg Vit E for 1 month. Semen quantity (semen volume, and concentration of the semen ejaculated) and quality (mass motility and percentage of live and dead cells) were recorded twice weekly. Blood samples collection, testes measurements (testis length (TL), breadth (TB); and scrotal circumference (SC)) using measuring tape and caliper were recorded. Sonar examination of the testes (mediastinum testes and tunica albugenia) and all accessory gland measurements were performed every 2 weeks. Semen quality and quantity were significantly affected by treatments: the ejaculate volume, mass activity and sperm concentration increased (p

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