

Effect of combination vitamin E and single long-acting progesterone dose on enhancing pregnancy outcomes in the first two parities of young rabbit does

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Vitamin E (Vit. E) is needed for young rabbits to prevent reproductive abnormalities, abortion and poor survivability of kits. Also, exogenous progesterone (P4) is needed for rabbits to enhance early embryonic development because of inadequate Corpus Luteum (CL) development at this age. Hence, the aim of this study was to investigate the effect of injecting Vit. E and the combination Vit. E+P4 in young does on Live Body Weight (LBW) gain, Gestation Length (GL), numbers of services/conception (NS), conception rate (CR), Abortion Rate (AR), Litter Size (LS), Kit Weight (KW), Total Litter Weight (TLW), Mortality Rate (MR) and progesterone (P4) concentration. The group treated with Vit. E + P4 had a greater LBW gain and lesser AR at first and second pregnancy. The treatments did not have a significant impact on GL and LS in the first two parities. Treatments resulted in a significantly lesser MR and greater TLW at the second parity. The Vit. E+P4 treatment resulted in a significantly lesser NS at the first parity, while Vit. E alone resulted in a significant reduction in NS at the second parity. Vit. E+P4 had a positive effect on CR at the first parity compared with controls. Vit. E alone increased CR at the second parity compared with that of the control group. The mean P4 concentration from mating to mid-pregnancy at first parity was significantly greater in the Vit. E+P4 than Vit. E and control groups. In conclusion, treatment with Vit. E+P4 at the first parity may be economically applied on rabbit farms because this treatment resulted in a greater maintenance of the first pregnancy and improved reproductive performance at the second parity as compared with results from the Vit. E treated and control groups.

Biography

Anas Salem has completed his PhD at the age of 38 years from Assiut University and got grants from DAAD organizations for doing academic researches in TUM, Munich, Germany. He has published more than 20 papers in reputed journals and serving as a member in many scientific journals.

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