

The Effects of PMSG Hormone (*Pregnant Mare Serum Gonadotropin*) on The Uterine and Ovarium Histologis of The Female Rats of Sparaque Dawley Strain

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Abstract

The objective of this research are to identify the effects of PMSG hormone in the uterine and ovarium histologis number of the female rats of Sparaque Dawley Strain. Completely Randomized design was used in this study with four treatments PMSG dosages (0, 37.5, 75, 150 I.U./kg BW) with five replications. The treaments were carried out by peritoneal injection during the cycle estrous (follicular, luteal 1, luteal 2, and luteal 3). The result indicated that during the estrous cycle the PMSG hormone increased the number of follicle/corpus luteum, the weight of ovarium and uterine, the thick of uterine and endometrium layer. Increasing of follicle/corpus luteum amount influence to estrogen and progesterone secretion, so can influence the development of uterine. Therefore it can be concluded that PMSG hormone could increasing ovarium and uterine development.

Keywords : PMSG hormone, follicle/corpus luteum, ovarium, uterine, endometrium, estrous cycle