

THE EFFECT *INSULIN-LIKE GROWTH FACTOR-1* (IGF-1) DERIVED FROM PREGNANT *CROSSBREED* MARE SERUM TO NUMBER OF ISLETS LANGERHAS PANCREATIC IN MICE (*Mus musculus*)

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ABSTRACT

The purepose of the research was to determine the effect of *insulin growth factor-1* (IGF-1) derived from pregnant *crossbreed* mare serum (PMS) on the number of islets Langerhans cells of the pancreas mice (*Mus musculus*). The research conducted on 35 female mice with seven treatment and five replicattes. The treatment were P0 = 0,1 ng/ml NaCl Physiological, P1, P2, P3 with respectively 10, 20, and 40 ng/ml IGF-1 (PMS); P4, P5, and P6 with respectively 10, 20, and 40 ng/ml IGF-1 *recombinant mouse*, Was the number of pancreatic cells in the islets of Langerhans (*Mus musculus*). The data were analyzed by ANOVA test (analysis of variance). The analysis used to compare between administration of IGF-I pregnant *crossbreed* mare serum and IGF-I *recombinant mouse* The examination results showed that the administration of IGF-1 SKB gave a significant result (\bar{p} 0.05) on the number of cells on the island of Langerhans. There is a significant difference between the administration of IGF-1 SKB and recombinant IGF-1 mice on the number of mice Langerhans cells.

Keywords: IGF-1, IGF-1 pregnant *crossbreed* mare serum, the number of islets Langerhans, *Mus musculus*