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izzet yavuz <izzetyavuz@hotmail.com> to Asd, me Tue, Sep 26, 2017, 7:59 PM

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Effectivity of Insulin Transferrin Selenium and Bovine Serum Albumin Addition on In Vitro Culture Medium on Fertilization and Blastocyst Rate of Mice (*Mus musculus*)

Widjiati^{1*}, Epy Muhammad Luqman¹, Benjamin Christoffel Tehupuring¹

1. Veterinary Anatomy Department, Faculty of Veterinary Medicine, Airlangga University.

Abstract

The aim of this research was to know best composition of in vitro culture medium that can support the development of zygote and cleavage into blastocyst stage of embryo and ready to be transferred into recipient. Insulin Transferrin Selenium (ITS) and Bovine Serum Albumin (BSA) need to be added to optimize culture medium so it can produce embryo with high viability to support embryo transfer program.

The addition of Insulin Transferrin Selenium into in vitro culture medium bind free radical, trigger development of the cell, inhibit damage of the cell because of its antioxidant component so it can increase blastocyst viability. The addition of Bovine Serum Albumin can increase the competence of the embryo development to grow in the in vitro culture medium.

The research started with estrus synchronized, oocyte collection, in vitro fertilization, addition of Insulin Transferrin Selenium and Bovine Serum Albumin into culture medium and examine the number of fertilization and blastocyst. The result show combination of Insulin Transferrin Selenium and Bovine Serum Albumin supplementation increasing number of fertilization and blastocyst is better compare with group that added Insulin Transferrin Selenium only ($p>0,05$) but it is not different with group that added Bovine Serum Albumin only. The conclusion from this research is addition of Insulin Transferrin Selenium and Bovine Serum Albumin can increase the number of fertilization and support the development of embryo.

Experimental article (List Dent Med Res 2017; 10(3): pp. 00-00)