

9th Yazd International Congress and Student Award on Reproductive Medicine with 4th Congress of Reproductive Genetics

Key Lectures

K-22

Sperm selection using Zeta potential method

Dehghan Marvast L.

Andrology Research Center, Yazd Reproductive Sciences Institute, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

Email: laleh.dm236@gmail.com

In routine ICSI, the selection is based on morphology and viability, which does not necessarily preclude the chance injection of DNA-damaged or apoptotic sperm

into the oocyte. Sperm with a high negative surface electrical charge, named “Zeta potential”, are mature and more likely to have intact chromatin. In this procedure, sperm is selected based on the presence of a negative charge on sperm membrane. Thus, the aim of our work is the comparison between pure gradient and Zeta method, to select spermatozoa with normal chromatin. Our aim is to develop a simple Zeta potential method for sperm isolation; and to analyze the sperm maturity, morphology, and DNA parameters.