

Nuclear transplantation. Clinical applications.

The lecture will be devoted to possible clinical applications of nuclear transplantation in reproductive medicine. Using nuclear transplantation procedures for prevention of mitochondrial diseases is well-known. But according to the rarity of these diseases and a lot of juridical and ethical restrictions, only one clinical pregnancy was achieved (Zhang et al., 2017). Another indication for nuclear transplantation procedure is embryo arrest. Known genetical markers of this condition, the possibility of avoiding embryo arrest by pronuclear transplantation will be described with presentation of the first clinical result. The possibility of decreasing the eggs aneuploidy frequency in advanced-age women by different types of nuclear transplantations (GV, MI-spindle, MII-spindle, pronuclear transplantation) will be discussed.