

عنوان مقاله:

Ovarian slow freezing tissue versus vitrification can better tolerate transplantation

محل انتشار:

سومین کنگره بین‌المللی تولیدمثل (سال: 1396)

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خلاصه مقاله:

Background: The survival rates of cancer patients are increased, but unfortunately many of aggressive treatment regiments are associated with the risk of premature ovarian failure. Then now a day human s preoccupation is quality of life of cancer survivors and how to preserve patient s fertility. Methods: Ovarian tissue from adult mixed breed sheep was frozen using vitrification or slow freezing then fresh and warmed tissue were cultured onto chick embryo chorio-allantoic membrane. After five days culture, morphology evaluation of follicles and stroma were done and proliferative activity in three groups was compared. Result: After culturing, follicular structure had been preserved better in both fresh and slow freezing rather than vitrification group and fibrosis has increased in culture rather than uncultured tissue but there wasn't significant differences between groups. The amount of necrosis areas increased after culture in all groups but the difference between groups was significantly higher in the vitrification culture group. Although result of proliferating assay was lower in the culture groups than uncultured group but there weren't significant differences between cultured groups. Conclusion: Therefore, at this situation that follicles will be better survived after slow freezing and it transplanted earlier than vitrification so it will be preferable than vitrification and it is early saying that vitrification is a viable alternative to slow freezing cryopreservation. Although it is cost and time saving but the aim .of freezing is more important than the way of freezing

کلمات کلیدی:

Chorio-allantoic membrane, Slow freezing, Vitrification, Ovarian tissue

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