

عنوان مقاله:

Enhanced Viability of Cryopreserved Human Sperm Following Sericin Supplementation Of The Freezing Media

محل انتشار:

چهارمین کنگره بین‌المللی تولیدمثل (سال: 1397)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Faranak Aghaz - *Kermanshah University of Medical Sciences - Fertility and Infertility Research Center*

Mozafar Khazaei, - *Kermanshah University of Medical Sciences - Fertility and Infertility Research Center*

Asad Vaisiraygani - *Kermanshah University of Medical Sciences - Fertility and Infertility Research Center*

خلاصه مقاله:

Background: Cryo-injuries in human sperm cryopreservation encouraged researchers to design a suitable protocol for sperm freezing. Supplementation of freezing media with antioxidant could be a suitable strategy to preserve the quality of sperm after cryopreservation. The objective was to determine the effects of various sericin concentrations (0, 0.5, 1, and 2.5 %) during freezing media on Human sperm viability. Methods: Human ejaculated spermatozoa were obtained by masturbation from either fertile man, capacitated spermatozoa were frozen using freezing media supplemented with 0, 0.5, 1 and 2.5% of sericin. Viability assessment before and after both freezing processing. Results: Addition of 2.5% of sericin during freezing processing significantly increased viability rates compared with control (81.50 ± 12.29 and 62.50 ± 10.06 , respectively). However, a too low concentration (0.5%) of sericin during freezing processing decreased viability rates compared with high concentrations ($P < 0.05$). Conclusion: In conclusion, appropriate concentrations (2.5%) of sericin promoted human spermatozoa viability after thawing process in ART center.

کلمات کلیدی:

Sericin, Human Spermatozoa, Sperm Viability, Sperm Freezing

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