

论著

冷冻人精子的染色体畸变分析

蔡 敏; 厉广坤; 李蜀婧

重庆市人口与计划生育科学研究院, 重庆 400020

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摘要 背景与目的: 人精液冷冻是辅助生殖技术的重要环节。自国家批准设立人类精子库, 冷冻精子在辅助生殖中大量应用, 对冷冻保存后人精子染色体的畸变研究就更加重视。本文就冷冻保护剂(Cryoprotective mediem, CPM)对人精子染色体畸变进行了分析。材料与方法: 分为4个冷冻保护剂组。I组: 甘油-卵黄柠檬酸型(G-Y-C); II组: 甘油-蜂蜜型(G-H); III组: 甘油-HEPES-HTY型(G-H-H); IV组: 甘油-Tyrede型(G-T)。将加入CPM的人精子采用缓冻法处理, 于冻后半年取出, 以37℃水浴复温后作人精子染色体畸变分析。结果: 4组CPM的精子染色体断裂率和畸变率均没有显著提高($P>0.05$)。结论: 这4种CPM在临床上应用是可靠的。

关键词 [精子](#); [冷冻保护剂](#); [精子染色体](#)

Analysis on Chromosome Aberration of Cryopreservative Human Spermatozoa

CAI Min; LI Guang-kun; LI Shu-jing

Institute Of Chongqing National Population And Family Planning
Science, Chongqing 400020, China

Abstract **BACKGROUND & AIM:** Human semen cryopreservation is an important link of assisted reproductive techniques. After human sperm storeroom was approved by the government, human cryopreservative spermatozoa was widely used in assisted reproductive techniques. It has become more important to study on chromosome aberration of human cryopreservative spermatozoa. In this report, we analyze the chromosome aberration of human cryopreservative spermatozoa brought by CPM. **MATERIAL AND METHODS:** Firstly, we classified the CPM into four groups. First group: glycerol-egg yolk-sodium citrate(G-Y-C); second group: glycerol-honey(G-H); third group: glycerol-HEPES-hty(G-H-H); fourth group: glycerol-tyrede(T-G). Secondly, the mixture of spermatozoa and CPM were done with slow freezing method. Finally, after half a year, we analyzed the human chromosome aberration. We took it out to come back to normal temperature in 37℃ water. **RESULTS:** Rate of chromosomal breakage and rate of aberration had not striking increased among the four groups. **CONCLUSION:** The four groups, succeeded with CPM are trust able in clinical application.

Keywords [spermatozoa](#); [cryopreservative medium\(CPM\)](#); [spermatozoa chromosome](#)

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