

2例男性育性障碍患者的联会复合体分析 Synaptonemal Complexes Analysis in Male Fertility Impairment in Two Men

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摘要 运用表面铺展联会复合体 (synaptonemal complex, SC) 的电镜技术对2例男性育性障碍患者的联会复合体进行分析,发现患者1的部分粗线期精母细胞 (20%) 中出现配对紊乱 (一些SCs中间未完全配对, 未配对区轴心出现增粗, 类似性染色体配对行为; 有些SC仅两端配对, 形成很短的两段SC, 中间大部分未配对, 在未配对区出现断裂, 似乎是一个三价体和单价体) 现象, 大部分细胞配对正常。患者2的几乎100%生精细胞被阻断在减数分裂的前期阶段, 显示联会异常如SC粉碎化、SC侧生组分膨化等现象。该文对男性育性障碍的机理进行了讨论。

Abstract:Synaptonemal complexes (SCs) of male fertility impairment were analysed in two patients. In case one, his testicular histology was normal and there were 20% abnormal pachytene spermatocytes, showing unsynaptic and broken SCs. It resulted in spermatogenesis with unbalanced chromosomes and pregnancy wastages. In case two, he had no sperms basically. G-banded chromosome analysis of lymphocytes showed normal chromosomal karyotype, but triple fragment, lateral element swelling and fragment breakages of SCs were observed in his spermatocytes. The mechanisms of infertility, impairment of fertility for the observed men were discussed in this paper.

关键词 [联会复合体](#) [男性育性障碍](#) **Key words** [synaptonemal complexes](#) [male fertility impairment](#)

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