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论著

丹参对丝裂霉素C 诱发小鼠生殖细胞遗传损伤的防护作用研究

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摘要 本文根据动物实验模型的设计,研究了中药丹参对丝裂霉素C(MMC) 诱发雄性小鼠过生殖细胞遗传损伤的防护效应。雄性昆明小鼠随机分成8 组,每组15 只,实验组分别注射高、中、低剂量丹参和MMC ,观察动物的精子畸形率、早期精细胞微核率和精原细胞染色体畸变率。结果表明,中药本身无诱变损伤作用,而对MMC 有拮抗抑制作用。提出中药丹参具有抗MMC 诱发小鼠生殖细胞遗传损伤的作用。

关键词 丹参 生殖细胞 精子畸形 微核 染色体畸变

A PROTECTIVE EFFECT OF SALVIA MILTIORRHIZA ON GENETIC DAMAGE OF GERM —CELL INDUCED BY MITOMYCINC (MMC)

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Abstract In this paper ,the relationship between the MMC inducing effect and protecting effect of Salvia mitiorrhiza ,was studied in germ - cell of Kunming mice 。 Male mice divided randomly into eight groups with 15 mice each group 。 In experimental groups different dose of Salvia mitiorrhiza and same dose of MMC were administ rated。 The chromosome aberration (CA) of spermatogonia ,sperm aberration and micronucleus(MN) of early spermatids were observed。 The results showed that chinese medicine it self has no genetoxic effect , bus can significantly decrease CA ,MN and sperm aberration frequencies induced by MMC (P < 0. 01) . The result s indicated that the chinese medicine Salvia mitiorrhiza may be an antimutagen。

Keywords Salvia miltiorrhiza Germ - cell Sperm aberration Chromosome aberration Micronucleus

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