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Observation on cultured dermal flaps used as wound coverage in mice*

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Abstract Objective: To reexplore the importance and usefulness of the dermis to seek a wound coverage corresponding to proper biological effects. Methods: After the dermis was extracted from the mice and cultured *in vitro*, the histomorphological changes of the dermis after culture and its transplantation of surface of wound were dynamically observed with rose bengal and HE staining. Results: After the dermis was cultured, its appendages actively proliferated and its surface was gradually truned into epidermis. Satisfactory results were achieved after the dermis was transplanted onto the full-thickness skin defects in mice. Conclusion: Under the appropriate culturing condition, the dermis can regerminate the epidermis to provide wound coverage with similar structure to the skin. The antigenicity and immunogenicity of the cultured dermis were decreased so that the dermis is easily accepted by the surface of wound.

Key Words dermis; culture; transplantation; mouse

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9160例患者 D抗原检测及配血分析

Analysis of antigen D detection and matching of blood in 9160 cases

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我们对9160例来我院治疗需输血的患者在鉴定 ABO血型同时,加作 Immucor盐水抗 D血清对其红细胞 D抗原进行检测,现将结果报告如下。

1 材料与方法

1.1 材料

1.1.1 抗 D血清来源 美国 Immucor盐水抗 D血清由浙医宏康公司提供。

1.1.2 标本采集 均采自患者静脉血,用双草酸抗凝剂抗凝。

1.1.3 调查对象 随机检测第1次需输血的全国各地的患者。

1.1.4 对照组 健康献血员5226例[1]。

1.2 方法

1.2.1 D抗原检测 红细胞 1滴 (火柴头大小)加 Immucor盐水抗 D血清 1滴于玻板上,用玻棒混匀,放置 5 min观察结果。遇有疑问,吸出 1滴, 1000 r/min离心 1 min,观察结果,并加用其它型号试剂重复检测。

1.2.2 交叉配血试验 采用木瓜酶法,凡木瓜酶法凝集者,加做抗球蛋白试验。

2 结果

9160例患者中发现21例 D抗原阴性, Rh阴性表现型占0.23%,而 Rh(D)抗原阳性表现型占99.77%。对照组 Rh阴性表现型占0.19%,而阳性表现型为99.81%[1]。对 Rh阴性患者我们做了交叉配血试验,其中3例木瓜酶法发生凝集,占阴性中的14.29%,进一步检查抗体特异性,其性质均为抗 D抗体。

3 讨论

在我国汉族人中, Rh阴性表现型占0.4%[2],而我们检测占0.23%,故产生抗 D抗体的频率很低。即使患者是 Rh阴性有抗 D抗体,我们在做交叉配血试验时会出现凝集,就会进一步检查抗体的特异性,而不会将含有该抗原的血输给患者,因此,除盐水配血外,加用能检测不完全抗体的配血法,如木瓜酶,凝聚胺,抗球蛋白法等,在汉族地区输血前检查 Rh血型可免去[3]。既节省人力物力,也可减轻患者的经济负担。

在只用盐水交叉配血试验未做不完全抗体检测的地区,输血前最好做抗 D抗体检查,因为即使 Rh阴性表现型出现的频率很低,倘若患者血液中有抗 D抗体,也可引起严重的溶血性输血反应,达不到治疗目的,还可危及病员生命。为了加强输血的安全性,我们认为输血前应做抗 D检查。

关键词 抗原检测;配血

中图法分类号 R457.11

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