

针推研究

梅花针叩刺联合 ALA - PDT 疗法对兔耳增生性瘢痕的抑制作用

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摘要:目的 研究梅花针叩刺联合 ALA - PDT 疗法对兔耳增生性瘢痕的疗效, 探讨梅花针叩刺联合 ALA - PDT 疗法对兔耳增生性瘢痕的抑制作用。方法 选取实验动物(日本大耳白家兔)分为正常组、阴性对照组、梅花针联合 ALA - PDT 治疗组、ALA - PDT 治疗组、PDT 治疗组, 对治疗组分别进行每周 1 次, 共 3 次的 PDT 干预治疗, 分别于治疗前行梅花针叩刺, 分别于 PDT 治疗后的 1 月、2 月、3 月取样, 进行 ELISA 实验及免疫组化。结果 梅花针叩刺联合 ALA - PDT 治疗后 1 月、2 月和 3 月其中的 MMP - 2、MMP - 9、MMP - 13 及 TIMP - 1 的蛋白浓度水平梅花针叩刺联合 ALA - PDT 治疗组与 ALA - PDT 治疗组之间蛋白表达水平比较有差异($P < 0.05$)。结论 梅花针叩刺联合 ALA - PDT 治疗后可对兔耳增生性瘢痕起抑制作用。

关键词: 梅花针; ALA - PDT; 增生性瘢痕; 基质金属蛋白酶及其组织抑制剂; 兔耳实验

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Inhibitory Effect of Pyonex Tapping Combined with ALA - PDT Therapy on Hypertrophic Scar in Rabbit Ears

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Abstract: **Objective** To study the curative effect of pyonex tapping combined with ALA - PDT therapy on hypertrophic scar in rabbit ears, and to explore its inhibitory effect on hypertrophic scar of rabbit ears. **Method** The experimental animals (Japanese big ear white rabbits) were divided into normal group, negative control group, pyonex combined with ALA - PDT treatment group, ALA - PDT treatment group and PDT treatment group. The treatment group was treated with PDT intervention once a week for three times. The pyonex was pricked before each treatment. The samples were taken in January, February and March after PDT treatment for ELISA experiment and immunohistochemistry. **Result** The protein levels of MMP - 2, MMP - 9, MMP - 13 and TIMP - 1 in 1, 2 and 3 months after treatment with pyonex tapping combined with ALA - PDT were different between the pyonex combined with ALA - PDT group and the ALA - PDT group ($P < 0.05$). **Conclusion** Pyonex tapping combined with ALA - PDT can inhibit hypertrophic scar in rabbit ears.