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Annals of Biological Research

Abstract

[The importance of turmeric extract on wound repair in rat](#)

Medicinal plants have been used in Iran and other countries for treating diseases for a long time. Nowadays, herbal medicine is a branch of complementary and alternative medicine. At present, there are many institutes and scientific centers throughout the world that are conducting researches on medicinal plants. In the present project, we have evaluated the effect of turmeric rhizome powder extract on healing wounds with acidic origin. We have selected 5 rabbits, shaved their dorsal region, and produced six wounds on them with acid. Some of these burns were considered as testing ones and were treated daily with turmeric extract and others were control samples. After two weeks of wound creation, the thicknesses of epithelium in samples tested with turmeric powder and Vaseline were 97 ± 4.4 and 76 ± 3.7 micrometres respectively and in negative control sample was 50 ± 3.2 micrometres. Statistical analysis indicated that Z index in turmeric samples versus negative ones and in Vaseline samples versus negative ones is more than 1.96 thence the Difference is significant ($P < 0.05$). The comparison of mean reepithelialization percentage, the epithelium thickness, and crust creation in test with control samples showed that the rate of regeneration in test samples that are treated by turmeric is about 5-10 days faster than control ones

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