Title: Effects of Matricaria chemomilla aqueous extract on rat skin wound healing

Authors: Naser Razmarayi1, Hossein Babaei 1, Saeed Sadigh-Eteghad2, , laya Froghy3

2. Neuroscience Research Center (NSRC), Tabriz University of Medical Science.

Abstract: Objective: Matricaria chemomilla (MC) is one of the most important medicinal herbs in Iran that used in skin disease for many years. The aim of this work was to study the healing effect of MC aqueous extract on full thickness skin wound in rats as an experimental model.

Method: Effect of MC aqueous extract on wound healing was studied in male rats subjected to two parallel full-thickness skin incisions on their back. Thirty male rats were randomly divided into three equal groups. 5% aqueous extracts of MC (5% MC and 95 % oserin), 1% phenytoin cream (commercial) and 5% normal saline (5% normal saline and 95 % oserin) were applied to the wounds daily in groups A, B and C respectively. Rats were euthanized after 14 days of treatment and the healing effect was histopathologically evaluated. In all groups

Results: Histological evaluation revealed that there is a shortened process of inflammation and accelerated collagen formation and increased fibroblast growth in MC treated group in comparison to control and phenytoin groups.

Conclusion: Our results indicate that MC aqueous extract affects early phases of skin wound healing in rats and it can be used to treat of full thickness wounds.

wound healing, rats, Matricaria chemomilla, aqueous extract

Presentation: Poster