عنوان مقاله:

Adjustment of a Fibrosis Marker, Pro-Inflammatory Cytokines, and IgE in Asthmatic Animals

محل انتشار:

فصلنامه پزشكى شخصى, دوره 8, شماره 30 (سال: 1402)

تعداد صفحات اصل مقاله: 9

نویسندگان: Fereshteh Dalouchi - *Physiology Research Center, Iran University of Medical Sciences, Tehran, Iran*

Zeynab Sharifi Aghdam - Physiology Research Center, Iran University of Medical Sciences, Tehran, Iran

Raza Falak - Department of Immunology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran

Morteza Bakhshesh - Khomein University of Medical Sciences, Khomein, Iran

Maryam Hajidazeh - Department of Immunology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran

Maryam Naseroleslami - Department of Cellular and Molecular Biology, Faculty of Advanced Science and .Technology, Tehran Medical Sciences, Islamic Azad University, Tehran, Iran

Mahdieh Mehrab Mohseni - Department of Cellular and Molecular Biology, Faculty of Advanced Science and Technology, Tehran Medical Sciences, Islamic Azad University, Tehran, Iran

.Yaser Azizi - Physiology Research Center, Iran University of Medical Sciences, Tehran, Iran

.Nahid Aboutaleb - Physiology Research Center, Iran University of Medical Sciences, Tehran, Iran

خلاصه مقاله:

Background: A lot of patients are suffering from asthma. For decreasing the asthma symptoms, we studied the effects of conditioned medium (CM) of human amniotic membrane mesenchymal stem cells (hAM-MSCs) as a source of antiinflammatory cytokines on splenocyte and lung tissue of asthmatic Balb/c mice.Methods: Forty mice were categorized into four groups; ovalbumin (OVA)-induced asthma, CM-treated asthma, DMEM (Dulbecco's Modified Eagle Medium)treated asthma, and saline control. Each group received related treatment. The lung alpha-smooth muscle actin (α-SMA) and splenocyte inflammatory cytokines and IgE were examined through Western blot analysis. Results: Western blot showed α-SMA overexpression in the OVA and DMEM groups compared with the saline group. CM therapy could significantly reverse it compared with OVA and OVA+DMEM categories by elevating IL-1₀ and IFN-γ and reducing IL-۴, IgE, and TGF-β .Conclusion: CM treatment could improve asthma symptoms by adjusting α-SMA in lung tissue and .pro-inflammatory cytokines and IgE in splenocytes

کلمات کلیدی: Asthma, Alpha-smooth muscle actin, Mesenchymal stem cell

https://civilica.com/doc/1772626

لینک ثابت مقاله در پایگاه سیویلیکا:

