### عنوان مقاله:

The Effect of Echinops Lasiolepis Extracts, Native Plant of Yazd Province, on Peripheral Blood Mononuclear Cell Proliferation and IFN-y Secretion

### محل انتشار:

مجله بين المللي أزمايشگاه يزشكي, دوره 1, شماره 1 (سال: 1393)

تعداد صفحات اصل مقاله: 8

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#### خلاصه مقاله:

Background and Aims: The present study was performed to investigate the effect of Echinops lasiolepis extract on peripheral blood mononuclear cells (PBMCs) proliferation and interferon (IFN)-&gamma secretion. Materials and Methods: PBMCs were obtained from three healthy volunteers and cultured in presence of Echinops lasiolepis methanol extract in different concentrations of ο.1, 1, 1ο, 1οο and ۲οο μg/ml. Lipopolysacharide (LPS) and Phytohaemagglutinin (PHA) were considered as mitogen. BrdU cell proliferation assay was used to determine cell proliferation. The concentration of IFN-&gamma in the PBMCs supernatant was determined using enzyme-linked immunosorbent assay. Results: Most concentrations of Echinops lasiolepis methanol extract showed inhibitory effect on PBMCs proliferation. There were significant differences between the concentrations of ٢٠٠, 1 and 0.1 μg/ml (p<0.0Δ). The optimum proliferation (٣٠.۶۶±٢۴.۶٧%) was obtained at concentration \ \u03b4g/ml. The PBMCs supernatant IFN-&gamma concentrations in extract treated group without PHA and LPS and in PHA activated group were not significantly different. Conclusions: Our findings indicated that Echinops lasiolepis extract has immunomodulating .activity which may be potentialy to used as an immunotherapy agent

## كلمات كليدى:

Cell proliferation, Echinops Iasiolepis, IFN-γ, Phytohaemagglutinin, تكثير سلولي, شكر

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