

### عنوان مقاله:

Anti-leishmanial activity of Pelargonium roseum Essential oil on the in vitro growth of Leishmania infantum promastigotes in comparison to Glucantime

**محل انتشار:** دوفصلنامه طب گیاهی پیشرفته, دوره 4, شماره 1 (سال: 1397)

تعداد صفحات اصل مقاله: 7

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#### خلاصه مقاله:

Background and aims: Visceral leishmaniasis so called Kala-azar is one of the important health care problems in the world. Some herbal drugs are noticed because of toxicity and drug resistance against pentavalent antimonials as used in treatment of Kala-azar. In this study, anti-leishmanial activity of Pelargonium roseum Essential oil on the in vitro growth of Leishmania infantum promastigotes in comparison to Glucantime was studied. Methods: Different concentrations of Pelargonium roseum essential oil on culture of Leishmania infantum promastigote were surveyed with Anti-leishmania activity assays at YF hr and FA hr at ΔYo nm wavelength. All the data were analyzed by using SPSS version and anti-leishmanial potency of the oil extract of Geranium in different concentration were compared with standard dose of Glucantime. Results: All concentration in YF hr showed no remarkable difference. Ya, ao and 100 μL/ml efficacy was same as Glucantime on the growth of promastigotes in YF hr MTT. All concentrations except ιμL/ml in FAhr MTT had resemble impact on the growth of promastigotes. Δ µL/ml concentration of Pelargonium roseum essential oil was significant difference effect on the parasite (P= •.•FW) in FAhr. Conclusion: Pelargonium roseum essential oil doesn't treat Leishmania infantum promastigote quickly. After ۴λ hr, ۵ μL/ml concentration can be a .suitable candidate in clinical trials

# كلمات كليدي:

Leishmania infantum, Pelargonium roseum, Promastigote, Glucantime

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