

### عنوان مقاله:

Antioxidant properties of hydro-alcoholic extract and extract of nepeta crispa in Lorestan province

## محل انتشار:

فصلنامه پزشكى هرمزگان, دوره 19, شماره 3 (سال: 1394)

تعداد صفحات اصل مقاله: 7

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#### خلاصه مقاله:

Introduction: Antioxidants protect body against the oxidative stress caused by free radicals. This study aims at comparing the antioxidant properties of hydro-alcoholic extract and extract of Nepeta crispa (from its shoot part). Methods: The study was carried out in Lorestan University of Medical Sciences in Yolf. Both hydro-alcoholic extract and essence of Nepeta crispa were prepared and antioxidant properties of samples were assessed using different methods. The ability to inhibit free radicals production was measured through Y, Y-diphenyl-1-picrylhydrazyl (DPPH) method. Total antioxidant capacity was measured using Phosphomolybdate Method. Likewise, phenol and flavonoid compounds of samples were measured using folin-ciocalteu Zishen method. Results: The results showed that the total antioxidant capacity of hydro-alcoholic extract and essence of Nepeta crispa were equal to o.YY±o.Fo Nmol ascorbic acid per gram extract or essence. The phenol content of hydro-alcoholic extract and essence of Nepeta crispa were Y&F.۶۳±1&.Y& and ۶.۹۴±1.۳Y mg gallic acid per gram extract or essence, respectively. Flavonoid content of hydro-alcoholic extract and essence of Nepeta crispa were equal to Δ.ΔΨ±ο.ΨF and ο.ΨF±ο.9F mg quercetin per gram extract or essence, respectively. ICa. value (concentration that will inhibit a.% of free radicals production), hydroalcoholic extract, essence of plant and Butylated hydroxytoluene (BHT), as positive control, were equal to Y.o9±o.11, ۶.∘۵, and Ψ.λλ±1 μg/ml, respectively. Conclusion: The results showed that the hydro-alcoholic extract has better antioxidant properties in contrast to essence of Nepeta crispa. As a result, hydro-alcoholic extract of Nepeta crispa is a good and available source of antioxidant compounds which can be used, if useful, in food, pharmaceutical and .industrial products

# كلمات كليدى:

Essential Oil, Antioxidants, Nepeta Crispa, Essential Oil, Antioxidants, Nepeta Crispa

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