

عنوان مقاله:

Anxiolytic Effect of Anethum Graveolens Seed Extract Combined With the Antagonist of Estrogen Receptor in Female Rats With Anxiety

محل انتشار:

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خلاصه مقاله:

Background: Anxiety as an important psychological disorder that has affected many people and has made them to spend a lot of money for its treatment. Objectives: This study aims to assess the anxiolytic effect of the hydro-alcoholic extract of Anethum Graveolens L. seed (AGS) combined with the antagonist of estrogen receptor in female rats with anxiety. Materials & Methods: In this study, 66 female Wistar rats were divided into eight groups as follow as: Negative control (10 ml/kg saline), positive control (0.6 mg/kg diazepam), five groups of AGS extract (0.1, 1, 10, 100 and 1000 mg/kg) and tamoxifen+AGS extract (10 mg/kg). Anxiety indicators were measured by the elevated plus maze (EPM) test. Results: The percentage of time spent open arms (%OAT) and percentage open arms entry (%OAE) significantly increased after using 10 mg/Kg dose of AGS extract compared to control group. Tamoxifen could significantly reduce this increase caused by AGS extract on anxiety indices. Conclusion: Considering the anxiolytic effect of the hydro-alcoholic extract of AGS and the reduction of this effect by the antagonist of estrogen receptor (tamoxifen), it can be concluded that the extract's anxiolytic effect may be due to interaction with estrogen receptor.

کلمات کلیدی:

Anxiety, Anethum graveolens, Estrogen receptor antagonists

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