

JOINT EVENT ON

20th Euro-Global Summit on**Cancer Therapy & Radiation Oncology**

and

2nd International Oncologist & Diagnostics Conference

August 28-30, 2017 Brussels, Belgium

Antibacterial, muscle relaxant and hypnotic effects of seeds of organum harmala in mice**Thamer Mutlag Jasim**

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Organum harmala seed extract has been frequently reported to possess antibacterial potential through invitro studies. P.harmala (Zygophyllaceae) is one of the most famous medicinal plants used in traditional medicine of Iraq. The harm alone, harm all and harming exerted many pharmacodynamic effects on the central nervous system, ranging between stimulation and depression depending on the dose. P.harmala indicates a great variety of pharmacological activities such as anti-microbial, anti-tumor, antinociceptive and monoamine oxidase (MAO) inhibitory activities. The most important component from P.harmala seeds are harming, harmaline, vasicinone and deoxyrinsone. The antibacterial effect of P.harmala was studied. The antibacterial activity of aqueous extracts was determined by agar well diffusion method. It inhibited the growth of E.coli and Staphylococcus aureus. All animals injected with the 100 mg/kg body weight of aqueous extract of P.harmala show myorelaxation or incoordination, so animals dropped down from the wire 3 consecutive times in 60 sec. Aqueous extract of P.harmala also induced muscle relaxation and prolonged the sleeping time induced by pentobarbital. These data suggest that P.harmala extract could inhibit the growth of S.aureus and E. Coli strain invitro and this activity may contribute to its chemopreventive effect.

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