

Potent Synergism of the Combination of Natural Honey and *Peganum harmala* Seeds against *Candida albicans* ATCC 10231

Moussa Ahmed^{1*}, Baghdad Khiati², Nouredine Djebli¹, Saad Aissat¹, Abdelmelek Meslem¹ and Salima Bacha¹

¹Pharmacognosy & Api-Phytotherapy Research Laboratory, Mostaganem University, Algeria

Abstract

The research on natural products and compounds derived from natural products has accelerated in recent years because of their importance in antifungal drug discovery. The aim of the present study was to compare antifungal activity of *Peganum harmala* (*P. harmala*) alone and in combination with 6 honeys from different regions of Algeria against *Candida albicans* (*C. albicans*). The combination action of honey with *P. harmala* was assayed by the well agar diffusion. The results indicate that the powder of *P. harmala* and honey are efficient against the tested yeast. The diameter of the zone of inhibition ranged from 5 to 9.1 mm for honey and 1 to 5.6 mm for *P. harmala*. The diameter of the zone of inhibition ranged from 1.33 to 17 mm for honey and *P. harmala*. The combinations of *P. harmala* with six honeys samples were always more efficient. Thus, the mixture of *P. harmala* and honey could lead to the development of new combination antibiotics against yeast infection.

Keywords: Antifungal activity; Honey; *Peganum harmala*; *C. albicans*