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## Novel therapeutic modality of apitherapy for controlling of multiple sclerosis

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**Objective:** Study the effect of bee sting therapy (Apitherapy) in treatment of Multiple Sclerosis.

**Methods:** Fifty patients with MS, their ages ranged between 26-71 years, were subjected to complete clinical and neurological history and examination to confirm the diagnosis. All cases were under their regular treatment they were divided into two main groups, Group I received honey, pollen, royal jelly and propolis and were treated with apiacupuncture 3 times weekly, for 12 months, in addition to their medical treatment, while group II remains on their ordinary medical treatment only. Apiacupuncture was done by bee stings for regulating the immune system.

**Results:** Results revealed that 4 patients showed some improvement regarding their defects in gait, bowel control, constipation and urination, while 12 cases, showed some mild improvement in their movement in bed, and better improvement in bed sores, sensation, and better motor power, only two cases of them were able to stand for few minutes with support. Interleukin (IL) 1 $\beta$ , tumor necrosis factor alpha (TNF $\alpha$ , and IL-6 were detected. The level of TNF- $\alpha$  was significantly elevated in patients in Group II, while IL-1 $\beta$  was reduced in Group II than Group I and no significant differences were found for IL-6 between the 2 groups. The mean values of IgE level in both groups of M.S. patients were low but with no statistical significance, while by the end of the study there were an elevation in the levels of IgE for both groups, which was statistically significant. **Conclusion:** Although Apitherapy is not a curable therapy in MS, but it can be used to minimize the clinical symptoms of MS, and can be included among programs of MS therapy.

### Biography

Ahmad G Hegazi Awarded the Excellent Medal of the First Class, 1995 • Received the Senior Scientist Prize of National Research Center, 1996 • Received the National Scientific Prize In Biological Sciences, 1990 • Received the Scientific Prize of The National Research Center, 1989 • Won The Second Best Research Paper award From International Congress of propolis, Argentina, 2000 • Mean speaker in 10th Academic conference., 2006, Japan • From Wikipedia, Awarded 2 Bronze medals from "The International Innovation Fair of the Middle East", 2007, Kuwait. Prof. of Microbiology & Immunology, National Research Center National Research Center, Dept. Parasitology, 1997-2000, Chair • Faculty of Medicine, Zagazig University, 1981-1997, Par-time Prof. and Supervisor on Immunology Section • National Research Center, 1990- up till now, Prof. of Microbiology & Immunology • African Federation of Apiculture Associations (AFAA), 2001- up till now, • Standing Commission on Apitherapy (APIMONDIA), 1999 - up till now, Member • Standing Scientific Committee, National Research Center, 1998 -up till now, • First, Second and Third Annual Conference of the Egyptian Association of Immunologists 1993, 1994 and 1996, Secretary General • Egyptian Journal of Immunology, 1995, Editorial Board • The Egyptian Association of Immunologists, 1992 -1997, Secretary General • Referee in 37 International Journals Patents: 4 Patents Educational Activities • Organized training courses on Immunology, National Research Center, 1987-2002 • Conducted training courses on Immunology, Faculty of Medicine, Zagazig University, 1981-1997 • Supervised the Immunology lab, Faculty of Medicine, Zagazig University, 1981-1997 The publications: • 204 articles in national and international scientific journals • 6 books in English language • 7books in Arabic language.

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