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## **USE OF OTOSAN EAR CONES** **IN PRESENCE OF AN EARWAX EXCESS**

### **1) Materials**

We used cones of waxed fabric produced by the firm OTOSAN of Forlì and manufactured with cotton fabric, bees-wax and paraffin wax.

### **2) Test**

We selected 15 adults subjects (men and women) who, at the otoscopic observation, showed a big quantity of cerumen or even the formation of a plug. The test did not include those subjects suffering from concomitant ear pathologies of inflammatory type.

### **3) Method**

After otoscopic examination and analysis of the concomitant symptoms like pain, itch, vertigo or hypoacusy, the operator treated the affected ear using the Otosan ear cone under examination. After the treatment, the subjects underwent otoscopic examination and the complained symptoms were re-evaluated. In case of need, the treatment was repeated after 24 hours adopting the same criteria.

### **4) Results**

In 7 subjects who showed a cerumen excess, but no plug formation, after one treatment only, the otoscopic examination showed a significant reduction of the cerumen in the auditory meatus and a simultaneous mitigation of the symptoms previously complained by the patients. Among the 8 subjects affected by earwax plug, 6 of them should repeat the treatment with the ear cone twice, and 2 of them thrice after some days to allow the ear canal to set free.

### **5) Conclusions**

The Otosan ear cones have proved to be a useful instrument with no contraindications or side effects for the daily ear hygiene and the drain of the ear canal in case of cerumen excess or plug. The action mechanism shall be probably related to the emollient action of the bee-wax which develops a synergical action with the "chimney" suction effect produced by the Otosan cone combustion.