

Clinical Analysis of medical device Electro Antiperspirant
in people suffering from excessive sweating

Subject of assessment: Medical device Electro Antiperspirant ®

Manufacturer: HIGHTECH DEVELOPMENT s.r.o.

Indicated group: Patients suffering from excessive sweating

Contraindications: Pacemaker, pregnancy, metallic orthopedic implants near treated area

Average duration of effects: several weeks or months

Duration of use at our department: since year 2013

Electro Antiperspirant device is being used at the Department of Dermatology of University Hospital Ostrava for treatment of localized hyperhidrosis in the area of palms, soles and axillae since the year 2013.

The mechanism of its effects is functional affecting of cells of eccrine sweat glands by iontophoresis, for which a direct electrical current of 10-25mA applied through water bath is used.

In adults patients in the area of palms and soles a current of value 25 mA is used, in children and sensitive individuals 10 mA, in the area of axillae a current of the intensity 10 mA is used, because the area of axillae is more sensitive than palms and soles of the feet. The treated area is immersed in a water bath with an electrode that is protected from direct contact with the skin. During the procedure, which lasts 10-20 minutes, the intensity of the output current is gradually increased by a potentiometer to the desired value and then again steadily reduced. The therapy takes place daily or every other day, until the desired effect is achieved, followed by a maintenance treatment individually twice a week to once a month.

23 patients have undergone this medical procedure at our department. 1 patient discontinued the treatment due to an unpleasant feeling. Other patients reported that they were satisfied or very satisfied. Approximately one third of patients attends maintenance treatments at our department, one third of patients has purchased a device for home use and one third of patients broke off contact.

The treatment by Electro Antiperspirant is an inexpensive and effective method with possibility of home treatment. It improves the quality of life for the vast majority of patients with hyperhidrosis and as such, we recommend it for broader use in clinical practice.

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