

## **Professional products for the correction of tooth hypersensitivity, which are presented on the market of the Republic of Belarus**

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### **Introduction**

Hypersensitivity of teeth (dentin hypersensitivity in accordance with ICD-10) may be defined as a short acute localized painful reaction of the tooth, which occurs when hard tissues of a tooth are affected by external (i.e. thermal, tactile or chemical) stimulus (Khoshchevskaya I.A., 2014). Over last decades the hypersensitivity of teeth in the world has increased by 35 - 42% and reached 68-74% (Irwin CR, McCusker P., 1997; Swift EJ, 2004; Cummins D., 2009; Fedorov Yu.A. and others, 2012). In the Republic of Belarus from 9.1 to 67.3% of the population face this problem in different age groups (Dedova L.N., Solomevich A.S., 2006). The main ways of the correction of tooth hypersensitivity are: the decrease of the excitability of the neural-receptor apparatus of the pulp and the decrease of the permeability of hard tissues of teeth (by enamel and dentine mineralization or by blocking the entrances to the dentinal tubules). Knowing the assortment of professional products for the correction of tooth hypersensitivity and the mechanisms of their action enables the dentist to select the optimal scheme for eliminating this pathology for each particular patient.

### **Aim**

to analyze the assortment of professional products for the correction of tooth hypersensitivity, which are presented on the dental market of the Republic of Belarus.

### **Materials and methods**

The assortment of the following organizations selling dentistry goods in the Republic of Belarus was studied: PE "VMK-Dent", LLC "Medistom", PUE "Unico-Dental", JV "Dina-International" LLC, CJSC "Belmedpostavka", group of companies "Belomnimed", LLC "Medical House", CPUE "UBITI", UE "Stomalux". The research was done in February 2018.

### **Results**

In the process of carrying out this research 33 names (items) of the professional products for the correction of tooth hypersensitivity were identified. Analysis of the structure of the assortment of these remedies showed that they were presented by: fluoride liquids – 1 item (3.0%), preparations for deep fluorination - 2 items (6.1%), fluorine foams - 1 item (3.0%), mineralization varnishes - 12 items (36,4%), fluorine gels - 5 items (15,2%), gels and liquids based on potassium oxalate - 4 items (12.1%), arginine based preparations - 2 items (6 , 1%), blockers of dentinal tubules - 6 items (18.2%).

### **Conclusions**

The assortment of the products under study and their mechanism of action allow to cover all the ways of the correction of tooth hypersensitivity. The most widely represented group of the products is preparations for mineralization of enamel and dentine.