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[Comparison of the systems used for providing local anesthesia in dentistry--the Wand (Milestone Scientific) and Injex (Rosch)].

[Article in Polish]

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Abstract

Local anesthesia is one of the basic and the most often executed interventions in dentistry. This procedure is very stressful for the patients because it is combined with pain. The new systems for delivering local anesthesia in dentistry have revolutionized the technique considerably by its simplify as well as reduction in pain.

THE AIM: this study presents the comparison between the local anesthesia delivery systems used in dentistry--The Wand and Injex, taking into consideration pain intensity during performing anesthesia and the intensification of fear before executed anesthesia with the given system.

MATERIAL AND METHODS: the Visual Analogue Scale (VAS), verbal scale and questionnaires were used to evaluate pain and fear.

RESULTS: On the basis of our investigations it can be concluded that there were statistically important differences between men and women in fear intensity combined with the anesthesia procedure--men were less afraid than women. The patients who were anaesthetized with system The WAND declared less fear before similar anesthesia in future. The average value of intensity of pain analyzed with both verbal and visual scales during anaesthetizing with the system Injex (independently from sex) was statistically significantly higher than for system The WAND--respectively 0.57 and 8.55 for The WAND, 2.02 and 32.18 for Injex ($p = 0.001$).

CONCLUSION: on the basis of the results of this study it can be concluded that the less stressful and painful local anesthesia delivery system is the WAND.

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