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## **PERFORMANCE ASSESSMENT OF FLOWABLE COMPOSITES IN TREATMENT OF PRECERICAL CARIES**

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Precerical caries (PC) is a common form of destructive damage in hard tooth tissues. The problem of effective aesthetic repair in those injuries continues to stay relevant today in the clinic of therapeutic stomatology.

The purpose of the work is comparative clinical study of the effectiveness in application of domestic flowable composite Latelux flow (Office "Latus", Ukraine) and flowable composite Filtek <sup>TM</sup> Ultimate (3 M ESPE, USA) in the treatment of precerical caries.

We carried out the filling of precerical caries cavities (PCC) among 15 patients at the age of 14-23 years using material Latelux flow in 25 teeth and using composite material Filtek <sup>TM</sup> Ultimate in 27 teeth. Application methodologies of materials conforms the references of the company. The diagnostics of PC was carried out according to the generally accepted methods.

A number of parameters which satisfy the Ryge scale were used to determine the clinical filling characteristics. Each parameter was rated by 3-4 levels: the 1<sup>st</sup> level - "excellent" (Romeo), the 2<sup>nd</sup> level - "satisfactory" (Sierra), the 3<sup>rd</sup> - "unsatisfactory" (Tango).

When checking after 6 and 12 months the clinical observations showed good aesthetic qualities of materials. In this way after 6 months 78% of the fillings correspond to assessment "Romeo", assessment "Sierra" -14%, "Tango"-8% of Latelux Flow fillings and the assessment of "Romeo" was 87%, "Sierra"-10%, "Tango"-3% of composite Filtek <sup>TM</sup> Ultimate fillings. After 12 months the assessment of "Romeo" was 72%, the assessment of "Sierra"-19%, "Tango"- 9% of Latelux flow fillings; fillings of composite Filtek <sup>TM</sup> Ultimate correspond to assessment "Romeo" in 82% of cases, "Sierra"- in 15%, "Tango" in 3% of cases.

Thus, the results of the study showed that filler material Latelux flow when filling PCC in studied parameters is slightly inferior to the Filtek <sup>TM</sup> Ultimate. Bearing in mind the price accessibility and relatively high clinical characteristics the domestic filling material Latelux flow may be recommended as the medicine to be chosen in filling the PCC.