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EXPERIMENTAL SUBSTANTIATION THE METHODS OF REHABILITATION FUNCTION OF THE PULP ON STAGES OF TREATMENT WITH ONE-PIECE-CAST NON- REMOVABLE DESIGN OF DENTURES

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The restoration of the functional activity of the pulp of the tooth is important to prevent inflammatory processes in the pulp of teeth, which are used under support of the one-piece-cast non-removable design of dentures and for increase the period of using them.

We have conducted an experiment on laboratory animals. Its teeth were covered with domestic light-curing adhesive with the addition of specialized complex antihomotoxic medication «Traumel-S». After that at 5 individuals who had teeth treated by the above method the teeth were removed 1 week after coating, the other 5 in 2 weeks and the last 5 animals in 1 month. Then they were subjected to decalcification by the conventional method, made of microscopic environments that studied under an electron microscope.

A distinct positive result was detected after 1 month. Macroscopically the edge of the prepared tooth even. Microscopic examination revealed a narrow zone of sclerosis, which are not defined the tubules of dentin. Adjacent to this area tubules of dentin have uneven gaps and blurred contours. On other area the openings are uniform, the tubes are arranged in parallel rows. Odontoblast form a continuous layer, in a surface part of that identifies singular cells with pyknotic nucleus. On other area of the layers to located are odontoplasty of prismatic and elongated form with a wide limbus of cytoplasm and rounded hypochromic nucleus.

Thus, the conducted research on studying of influence on the structural organization the preparation of tooth and subsequent processing of the domestic light-curing adhesive material in combination with specialized complex antihomotoxic medication, showed that the use of these drugs helps to reduce the symptoms of the inflammatory process in the pulp. Compared to the previous series revealed that the inflammatory process in the early stages of observation has ill-defined character and to disappear to 14 day after preparation of the teeth. Changes in dentine in the early period of observation (7 days), not progressing in the later stages of the study (30 days). Changes in the layer odontoblasts are adaptive-compensatory in character, which does not lead to the violation of predentine and strengthening the destructive irregularities in the dentin. The obtained data prove the possibility of recovery of the receptor apparatus of intact teeth after operation of preparation of hard tissues.