

OPTIMIZATION OF CLINICAL AND PROCESS TO MANUFACTURE COPINGS USING ASHLESS PLASTIC

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Introduction. At the present time exist large variety of pins but the biggest use found three types: anchor, fiberglass standart pin systems and individual molten copings. To all of them handle dentists carefully. Anchor and fiberglass standart pins have these flaws: firstly, such microprosthetics due to design features put pressure on the root walls, that grows under the influence of chewing pressure and often leads to vertical fracture of the root. Secondly composite material modeling of stump past is necessary but if even it was ideally made it leads to strength reduction while cast strength is. Thirdly, standard systems is not always high-quality (due to material it was made of pin shape, etc.). Their only advantage over cast tabs is a time saving. The modeling technique of insertion is more reliable due to the absence of the above-mentioned drawbacks. As practice shows, such pins serve longer then anchor one, but only by entry requirements implementation. One of them – accurate modeling and high-quality molding. As a result – a high – accuracy.

The aim. An clinical assesement of use of an ashless plastic “Modeplast” in the insertion production by a direct method.

Materials and methods. In case of dental hard tissues destruction fill 75-100% in a frontal side the direct method was used. The modeling was made by modeling wax “Lavaks” and ashless plastic “Modeplast”. Control group – 16 patients in the age 35-57 years (8w/7m) with 4th class hard tissue defect by Black.

Results. In total 88 insertions were made to our patients, including 46 after ashless plastic Modeplast

and 42 after wax “Lavaks” modeling. Their quality was evaluated t the fitting step. In the main group in all 46 cases (100%) in case of all modeling and molding rules abidance of “Modeplast” the step of cementation was without difficulties. In the second group we had to repeat the cast process of 7 insertions (17%) in the case of defects of wax modelation.

Conclusions. Plastic material “Modeplast” is gives more accurate and high-quality results in case of the same time spent, better express prothetic area. That leads to improvement of the marginal adaptation, so as a result high-quality of dental design. Due to full burning – out of plastic and more accurate work on previous steps. The time for processing is shorted and the quality of cast dental design is refined. Pin lay can be modeled for the previously created crown.

Improperly performance of the steps can leads to negative result and using of modern material will not give the expected results.