EFEK ASETON PADA PERMUKAAN REPARASI TERHADAP KEKUATAN TRANSVERSA RESIN AKRILIK HEAT CURED

(EFFECT OF ACETONE ON TRANSVERSE STRENGTH OF REPAIRED HEAT-CURED ACRYLIC RESINS)

ABSTRACT

Background: Acetone is an organic material that have a lot of functions. One of them is as an etchant. In the long run, denture might be broken as result of high and repeated mastication force. Broken denture can be repaired. The first choice material for denture reparation is cold-cured acrylic resins. Lack of mechanical bound between the old and new resin can result in broken repaired denture. The application of acetone can form tags and increase the mechanical bound between the old and new resins. Purpose: To find out effect of aceton on the transverse strength of repaired heat-cured acrylic resins. Method: Sixteen rectangular shaped heat-cured acrulic plates with the size of 65mm x 10mm x 2.5mm. They were prepared with 45° bevel joint and were divided into 2 groups. Group 1 was smeared with one drop of monomer methyl metacrylate as control group. Group 2 was smeared with one drop of acetone. All of them were packed with cold-cured acrylic. They were measured by using transverse strength testing machine. The result was analyzed with T-test. Result: There is no significant differences between control and treatment groups, p= 0.053 (p>0.05). Conclusion: There are no significant difference between the application of one drop of monomer methyl metacrylate and acetone on the transverse strength of repaired heat cured acrylic resins.

Keyword: heat-cured acrylic resins, cold-cured acrylic resins, monomer methyl metacrylate, acetone, transverse strength.