

**PERBEDAAN POLIMERISASI SECARA KONVENSIONAL DAN
PRESSURE COOKER TERHADAP KEKUATAN IMPAK RESIN AKRILIK
HEAT CURED**

(Penelitian Laboratorium)

**THE DIFFERENCE OF POLYMERIZATION USING CONVENTIONAL
AND PRESSURE COOKER TOWARD IMPACT STRENGTH OF HEAT-
CURED ACRYLIC RESIN**

(Laboratory Research)

ABSTRACT

Background: Polymethyl methacrylate is usually used as material to make prothesa. Processing acrylic can be done by conventional techniques (waterbath) or by using pressure cooker. This research is done to know the impact strength of heat cured acrylic resin proceed by pressure cooker as is known that pressure can reduce residual monomer on the minimal limit compared to conventional technique.

Purpose: The aim is to know the difference of impact strength heat-cured acrylic resin proceed by conventional technique and the pressure cooker.

Material and method: Sample 65x10x2,5 mm heat-cured acrylic resin. Sample consisted of two treatment groups. One group consisted of 7 samples. Group A are polymerized with conventional techniques. Group B are polymerized with a pressure cooker.

Result: There are significant differences between both group and the impact strength which is obtained at the acrylic resin which is polymerized using a pressure cooker increases more than the conventionally polymerized.

Conclusion: Impact strength of acrylic resin using pressure cooker is higher then conventional technique.

Keywords: acrylic resin, pressure cooker, impact strength