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## Comparative Evaluation of Transverse Strength of Self Cure Denture Repair Resin Using Different Surface Treatments: An In-Vitro Study

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### ABSTRACT

**Statement of problem:** There always exists dilemma regarding choice of repair material and the strength associated with the repair.

**Purpose:** The study aims to compare the transverse strength of self cure repair resin using different surface treatments.


### Material and method:

60 heat cure resin samples of dimension 65 x 10 x 2.5 mm were cut into 2 equal parts with 45 degree bevel and placed in mould with 3 mm gap in middle for adhering with repair material after surface treatment with isopropanol and ethyl acetate following which they were tested for transverse strength on Universal testing machine.

**RESULT:** The highest bond strength was obtained with self cure resin after surface treatment.

**CONCLUSION:** Repair with self cure resin exhibited higher transverse strength after surface treatment.

**Key words:** Dental prosthesis repair, isopropanol, ethyl acetate, transverse strength

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