

## ABSTRACT

**Background:** Tooth loss is a problem that can affect chewing function, speech function, interfere with the function of the temporomandibular joint (TMJ), and psychological ie aesthetics. So as to improve the functionality needed denture base, usually denture base material that is commonly used is heat cured acrylic resin. The heat cured acrylic resin on contact with the drink its chemical substances are citric acid, acetic acid, and the other can lead to crazing. This can affect the strength of the transverse heat cured acrylic resin.

**Objective:** This study aims to determine whether or not the influence of the length of time of immersion heat cured acrylic resin in yogurt. Experimental studies conducted on heat cured acrylic resin with a size of 65mm x 10mm x 2.5 mm. With the immersion period 1 day, 3 days, and 6 days. There are 24 samples, divided into control group and treatment group. The variables measured were the strength of the transverse heat cured acrylic resin.

**Methods:** Data were analyzed using Kruskal Wallis test.

**Results:** Research findings showed no significant effect on the length of time of immersion heat cured acrylic resin in Yoghurt. Based on the results of research that consuming yogurt safe for the people who use or do not use removable denture acrylic.