ABSTRACT

Background: Glass Ionomer Cement (GIC) which used in dentistry, have micro solubility
then reseacher made Resin Modified GIC (RMGIC) that expected to be relied for
restorations. Besides that, RMGIC have polymerized in addition to acid-base reaction, it
makes RMGIC have greater shrinkage than GIC. Also supported by the water content
and carboxilic acid there by reducing the ability of RMGIC for tooth substrate wetting,
causes greater microleakage. Purpose: To know the difference in solubility between GIC
and RMGIC by drops the artificial saliva pH 4 for 3 days. Result: Visible difference in
weight between before and after treatment in group of GIC than group RMGIC.
Conclusion: There are significant differences in solubility of RMGIC with GIC on drops
artificial saliva pH 4 for 3 days in which the solubility of GIC greater than RMGIC.

Keywords : GIC, RMGIC, solubity