

**PERUBAHAN DIMENSI LINIER MODEL KERJA
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**(LINIER DIMENSION CHANGES OF WORKING MODEL
RESULTED BY POLYETHER IMPRESSION
BY REPEATED POURING)**

ABSTRACT

Background. *Damage and imperfection of working model can disrupt the restoration process, particularly fixed bridge. Should it happen, recall patient to the dental office is required for second impression taking redo. This is time consuming and uncomfortable to the patient. Alternatively to avoid this situation, a second model cast is made using the same impression. Polyether is an elastomeric impression material which has excellent dimension stability, accuracy, and elasticity although has less flexibility after setting.*

Purpose. *The aim of this study generally is to know the significance of linier dimension changes of the working model resulted by polyether impression by repeated pouring. Also to know how many times the polyether impression can be poured before causing significant linier dimension. Especially to know the inter-preparation linier dimension changes of the working model.*

Method. *This research was done in experimental laboratory method by pouring the polyether impression with type IV dental gypsum five times. Then, divided into five groups, there are First Pouring (P1), Second Pouring (P2), Third Pouring (P3), Fourth Pouring (P4), and Fifth Pouring (P5) groups. Then, measure linier dimension of the samples.*

Result. *The result of this research that (1) there were no significant linier dimension changes of the sample of P1, P2, and P3, but there were significant linier dimension changes of P4, and, P5 depending of master model. (2) There were no significant linier dimension changes each time poured to all groups. (3) There is expansion of inter-preparation linier dimension at the first pouring, then no expansion again at the second and third pouring, afterwards expansion again at the fourth and fifth pouring.*

Conclusion. *Pouring polyether impression with good and optimal result of inter-preparation linier dimension can be done three times.*

Keywords: *Linier Dimension, Polyether Impression, Repeated Pouring*