

**PERUBAHAN INTENSITAS WARNA SEMEN IONOMER KACA SETELAH
DIRENDAM DALAM TEH HITAM
(GLASS IONOMER CEMENT COLOUR EXCHANGE AFTER IMMERSION IN
BLACK TEA)**

ABSTRACT

Background. Microporosity in glass ionomer cement contributes on its colour stability. In clinical use, glass ionomer cement after varnishing still had an interaction with saliva, foods and drinks, and also the oral hygiene condition. This is an external factor which could be affected in colour stability. **Purpose.** The aim of the study was to research the colour exchange in glass ionomer cement after immersion in black tea. **Method.** Twenrt eight disc specimens (6 mm internal diameters and 1 mm thickness). The colour measurements were recorded after storage in closed tube for 24 hour. Specimens were randomly devided into four groups of 7 specimens. Control specimens were kept in saline. The other 3 groups of specimens were immersed in black tea for 5 minutes for 5 times, 7 times and 14 times, followed by colour exchange measurement. Data were submitted to one-way ANOVA and LSD multiple comparation. **Result.** There was significant colour exchange in glass ionomer cement after immersion in black tea. **Conclusion.** The darkness of glass ionomer cement immersion in black tea for 5 minutes 14 times daily is the highest.

Key words : microporosity, glass ionomer cement, colour exchange, black tea.