

Pengaruh pH saliva terhadap kekuatan tarik diametral semen ionomer kaca yang dilapisi coating agent = Effect of salivary pH to diametral tensile strength of glass ionomer cement coated by coating agent

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Abstrak

Penelitian ini bertujuan untuk menganalisis pengaruh pH saliva terhadap kekuatan tarik diametral semen ionomer kaca (SIK) yang dilapisi coating agent. Spesimen SIK yang telah dilapisi varnish dan nanofilled coating agent direndam dalam saliva buatan pH 4,5 5,5 dan 7 selama 24 jam pada suhu 37°C, kemudian dilakukan pengujian kekuatan tarik diametral dengan Universal Testing Machine.

Hasil menunjukkan bahwa tidak terdapat perbedaan bermakna nilai kekuatan tarik diametral SIK yang dilapisi varnish maupun nanofilled coating agent dengan menurunnya pH saliva ($p < 0,05$).

Disimpulkan bahwa pH saliva tidak mempengaruhi kekuatan tarik diametral SIK yang dilapisi varnish maupun nanofilled coating agent.

The aim of this study was to analyze the effect of salivary pH to diametral tensile strength of Glass Ionomer Cement (GIC) coated by coating agent. GIC specimens coated by varnish and nanofilled coating agent were stored in artificial saliva pH 4,5 5,5 and 7 for 24 hours at 37°C, then diametral tensile strength was tested by Universal Testing Machine.

Result showed that there was no significant different in diametral tensile strength of GIC coated by varnish and nanofilled coating agent with decreasing of salivary pH ($p < 0,05$).

It can be concluded that salivary pH does not affect the diametral tensile strength of GIC coated by varnish or nanofilled coating agent.