

Respons pulpa gigi tikus terhadap propolis sebagai bahan kaping pulpa langsung

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Abstrak

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The aim of the present study was to assess the response of rat dental pulp to direct pulp capping with ethanol extracts of propolis (EEP). An occlusal cavity was prepared on the right maxillary first molar of Sprague-Dawley rats. The dental pulp was exposed and then lined with a zinc oxide-based filler as a control (group I), or with EEP (group II). Then, each cavity was filled with glass ionomer cement. The animals were sacrificed at week 1, 2, or 4. Biopsy samples were obtained, and these were stained and viewed by a light microscopic. The histological examination was based on the presence of polymorph nuclear leukocytes and macrophages, and also the dentinal bridge formation. Data were statistically analyzed by using Kruskal-Wallis and Mann-Whitney tests. The results showed that the inflammatory response of EEP group was relatively milder compared to the control group, but there was no significant difference ($p>0.05$) between the two groups. There was no dentinal bridge formation seen in both groups. Therefore, the present results suggest that direct pulp capping with EEP in rats may delay dental pulp inflammatory process and fail to stimulate reparative dentin.