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CORRELATION BETWEEN IgE AND DIFFERENT STATES OF DENTAL PULPS

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Abstract:

The presence of immune factors in inflamed dental pulps, suggests that immune responses could participate in disease process. With regard to the presence of significant number of mast cells in pulpitis cases, the purpose of this study was to determine the correlation between concentration and presence of IgE in supernatant fluids of explants cultures of different states of dental pulps.

For this purpose, a total of forty-eight pulpal samples were evaluated. They were 10, 10, 8, 11, and 9 pulpal samples from impacted teeth, normal erupted teeth, teeth with carious lesions, irreversible symptomatic pulpitis and irreversible asymptomatic pulpitis, respectively. The samples were maintained in explants cultures for 72 hours. Sandwich ELISA was used to detect and quantitate IgE in supernatant fluids.

It was shown that in impacted and carious samples, there were not any IgE. The presence of IgE in normal, symptomatic and asymptomatic samples were 30%, 45.5% and 55.6%, with average concentration of 0.063 ± 0.02 , 0.24 ± 0.148 and 0.235 ± 20.17 IU/ml, respectively.

Statistical analysis showed significant differences between different states of pulps with regard to presence of IgE ($P=0.0324$). With regard to concentration of IgE, there were significant differences between impacted and symptomatic ($P=0.0325$); and carious and symptomatic ($P=0.0397$).

It is concluded that with increase in antigenic stimuli, there is a proper condition for production of IgE, as the highest presence of IgE was related to irreversible asymptomatic pulpitis. Bacterial by-products are possible allergens, which can induce the production of IgE.

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