p16 expression in odontogenic tumors

Luciano Artese1, Adriano Piattelli1, Corrado Rubini2, Gaia Goteri2, Vittoria Perrotti1, Giovanna Iezzi1, Marcello Piccirilli1, and Francesco Carinci3

1Dental School, University of Chieti-Pescara, Chieti; 2Institute of Pathology, University Politecnica delle Marche, Ancona; 3Dipartimento di Discipline Mediche e Chirurgiche della Comunicazione e del Comportamento, Section of Maxillofacial Surgery, University of Ferrara, Ferrara, Italy

ABSTRACT

Aims and background. The aim of the study was to examine the immunohistochemical expression of a cell-cycle-related factor (p16) in order to elucidate its role in the growth and diffusion of odontogenic tumors.

Study design. Thirty-six odontogenic tumors were divided into two groups according to their clinical behavior: group A and group B composed of tumors at low and high risk of recurrences, respectively. The ANOVA test was used to detect differences between the two groups.

Results. p16 was expressed in both groups, but with different localization. A statistically significant difference was found in p16 expression of peripheral cells, with an increase in the expression in group B compared to group A ($P < 0.05$). In addition, there was no significant difference in p16 positive expression of the central cells of odontogenic tumors, which was high in both groups.

Conclusions. The present data show a correlation between p16 expression and the biological behavior of odontogenic tumors.

Key words: cell cycle proteins, immunohistochemistry, odontogenic tumors, p16.

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Correspondence to: Prof Francesco Carinci, MD, DMCCC, Section of Maxillofacial Surgery, University of Ferrara, Corso Giovecca 203, 44100 Ferrara, Italy.
Tel +39-0532-455582; fax +39-0532-29158; e-mail crc@unife.it

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