

LEVEL OF PROSTAGLANDINS IN PERIODONTAL  
DISEASE

By

S. Sadek ; El-Ashmawy ; A.A. Aly, Mervat El Ansary

Gelane Ayoub and H. El-Sayed

ABSTRACT

In this study, prostaglandins level in gingival tissue homogenate was measured in different stages of gingival disease. Sixty males were included in this work to avoid the contribution of any other hormonal imbalance. The classification of gingival tissue into normal, mild, moderate and severe was based on both clinical examination and histopathological finding. The increase in clinical and histopathological indices was directly proportional to the increase in prostaglandins level. In severe gingival inflammation, the level of prostaglandins was found to be increased more than ten folds compared to normal gingiva. Thus the more the inflammatory cells, the more the production of prostaglandins. These migrating inflammatory cells were the major source of local prostaglandins synthesis in gingival tissue. Non-steroidal anti-inflammatory drugs may be of value in reducing bone resorption after periodontal therapy, since they reduce prostaglandins synthesis from the infiltrating inflammatory cells.