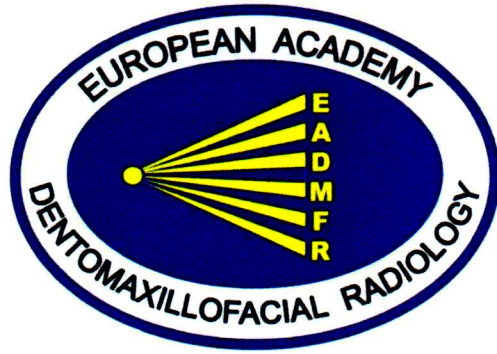


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## CAN PERIOSTEAL REACTIONS OF THE JAWS HELP US WITH THE DIAGNOSIS?

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**Objective:** The objective of this study is to investigate If there is any corellation between the periosteal reactions (PRs) radiologic characteristics and prognosis.

**Material and Methods:** 7000 Patient's CBCT datas were evaluated with regards to PRs and 130 PRs were found. In order to find whether there is a correlation between the PRs reactions' characteristic and prognosis, the pathological analysis were made. Each lesions' grade of malignanciess or infection were sorted.

**Results:** As the degree of infection or malignancies get more aggressive PRs tend to show more irregular paterns. If there is a low-grade infectious condition such as early chronic osteomyelitis or secondarily infected cystic lesion the PRs tend to have lamellated or single parallel line paterns. The most aggressive malign tumours PRs tend to show different paterns such as spiculated (as in osteosarcoma) and Codman's triangle (as in squamous cell carcinoma). Metastatic lesions demonstrated irregular paterns which could not be put in any patern group. This is a thesis study of one of the author's, Gürkan Ünsal, and the study is still in progress with adding new patient datas.

**Conclusion:** PRs can help the clinician at diagnosis and prognosis If it can be interpreted with other diagnostic signs.

**Keywords:** Periosteal Reactions, Malignite, Diagnosis