

## عنوان مقاله:

Relation between HER-2 gene expression and prognostic prostate cancer parameters in trus guided biopsies

## محل انتشار:

مجله ایمنی و بهبود بیمار, دوره 7, شماره 2 (سال: 1398)

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## خلاصه مقاله:

**Introduction:** Prostate carcinoma is the most common type of cancer and the second lethal cancer in men. Overexpression of Her2-neu gene affects the growth and prognosis of some tumors. HER2 gene amplification is seen in about one-third of prostatic adenocarcinoma cases. It also seems to correlate with androgen independence of the prostate tumors. We evaluated the HER2-neu expression in prostate cancer and its relation with known prognostic factors, in this study. **Material and Methods:** Immunohistochemical staining was used to evaluate the expression of Her2-neu in 60 cases of prostate carcinoma. The relation between HER2-neu expression and prognostic factors of prostatic carcinoma was evaluated, which included serum PSA values, number of core involvement, high percentage of core involvement, Gleason score, Gleason grade, extra prostatic extension of the tumoral cells and tumor volume. **Results:** Among 60 patients included in our study, Her2-neu was negative in 49 (81.7%) cases (zero score in 35 cases and score 1+ in 14 cases), and a weakly positive expression (score 2+) was seen in 11 (18.3%) cases. Among evaluated factors, tumor volume was the only factor which significantly correlated with Her2-neu expression. **Conclusion:** The rate of Her2-neu expression was not high in our patients. Among various variables evaluated in our study, only tumor volume had significant statistical correlation with the expression of Her2-neu. According to low expression of Her2-neu in evaluated specimens in this study, it is necessary to conduct more studies to confirm the relationship of her2-neu and the known prognostic factors of prostate carcinoma.

## کلمات کلیدی:

Prostate cancer, HER2-neu peptide, imaging guided biopsies, Gleason score

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