# The Effect of The Length of The Tissue Sample Taken in Prostate Biopsies on The Rate of Detection of Prostate Cancer

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## Introduction

Prostate cancer is one of the most common cancers in men. Although PSA value, MRI evaluation and presence of clinical findings are used in diagnosis, the definitive diagnosis is made by biopsy. The aim of our study is to examine the effect of the length of the sample taken in biopsy on the cancer detection rate.

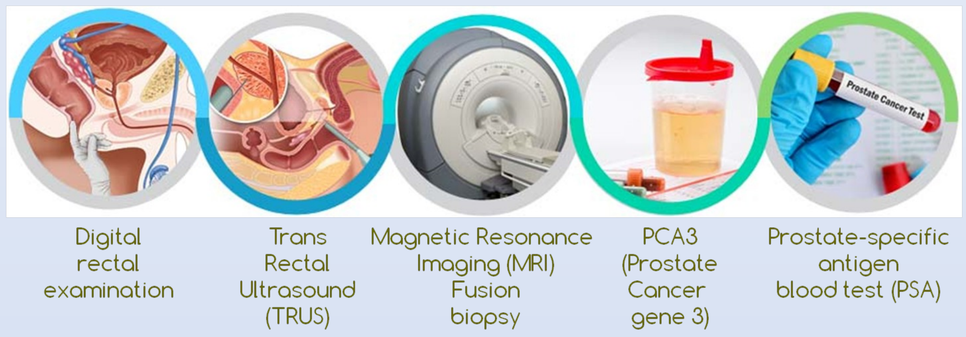


Figure:1: Prostate cancer diagnosis

## Methodology

Patients who applied to the urology outpatient clinic of Bezmialem Vakif University Faculty of Medicine Hospital between January 2018 and January 2023 and had a prostate biopsy will be included in our study. The patients' age, PSA value, prostate volume, prostate biopsy length, number of cores biopsied and pathological diagnosis will be investigated. It will be examined whether the cancer detection rate increases as the length of prostate biopsy samples increases.

## Results

A statistically significant positive correlation at a low level was found between PSA and prostate volume. (r=0.303;p=0.026) No significant result was found between the length of prostate biopsy samples and the pathology diagnosis. (p=0.456) No significant relationship was found between the biopsy core count and the pathology diagnosis. (p=0.082)

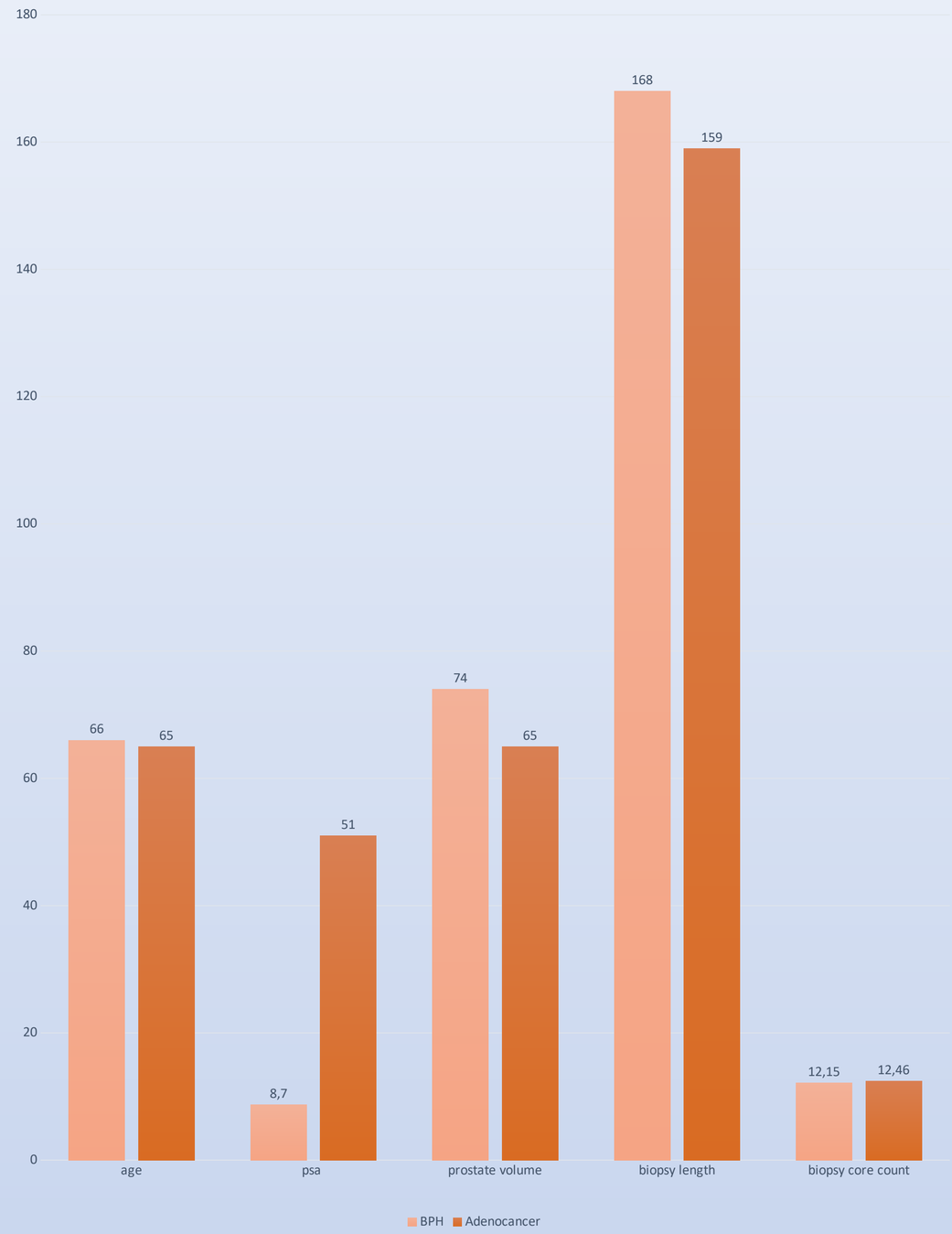


Table 1: Averages of Patients' Data

## Conclusion

The results showed that biopsy specimen length and biopsy core count does not make a difference in the cancer detection rate. Increasing the sample size in future studies is believed to be beneficial for this matter.

## References

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