# Diagnostic Accuracy of Multiparametric-MRI Targeted Prostate Biopsy Using Cognitive Registration compared with Standard Biopsy in Biopsy Naive Patients with Prostate Specific Antigen level of 4-10 ng/dL

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**Title:** Diagnostic Accuracy of Multiparametric-MRI Targeted Prostate Biopsy Using Cognitive Registration compared with Standard Biopsy in Biopsy Naive Patients with Prostate Specific Antigen level of 4-10 ng/dL

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**Purpose:**
- The aim of this study was to evaluate the diagnostic accuracy of multiparametric prostate MRI targeted biopsy using cognitive registration compared with standard biopsy in biopsy naive patients with prostate specific antigen (PSA) level of 4-10 ng/dL.

**Methods:**
- A total of 50 biopsy naive patients with PSA level of 4-10 ng/dL were included in the study.
- Patients underwent multiparametric prostate MRI and targeted biopsy using cognitive registration.
- Standard biopsy was performed as a control.

**Results:**
- The diagnostic accuracy of multiparametric MRI targeted biopsy using cognitive registration was found to be superior to standard biopsy in detecting prostate cancer.

**Conclusion:**
- Multiparametric MRI targeted biopsy using cognitive registration is a promising technique for improving the diagnostic accuracy of prostate cancer detection in biopsy naive patients with PSA level of 4-10 ng/dL.

**Keywords:**
- Multiparametric MRI
- Targeted biopsy
- Cognitive registration
- Prostate cancer
- Biopsy

**References:**