

IUC24426-83

Predictors of Cancer Detection on Local Anaesthetic Transperineal (LATP) Prostate Biopsy: A Real-World Single-Centre Analysis

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Introduction

To evaluate predictors of prostate cancer detection in men undergoing local anaesthetic transperineal (LATP) prostate biopsy, focusing on PSA levels and PIRADS scores.

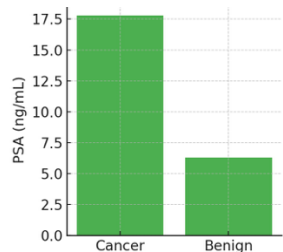
Methods

A retrospective analysis was conducted on 616 patients undergoing LATP biopsy at Worcestershire Acute Hospitals NHS Trust between November 2023 and April 2024.

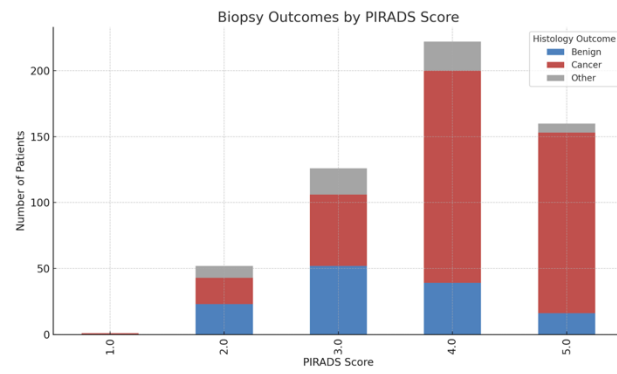
Results

- Overall cancer detection rate: 66.8% (412/616)
- Mean PSA in cancer cases: 17.8 ng/mL (vs 6.3 in benign) Fig 1.

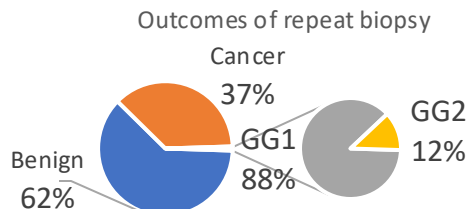
Mean PSA by Histology Group



- PIRADS 4–5 correlated strongly with malignancy; PIRADS 3 showed mixed outcomes Fig 2.



- 16 benign cases re-biopsied Fig 3.



- 6/16 cases re-biopsied diagnosed with cancer of which 2 clinically significant
- Both PIRADS 5 and PSA >10

Conclusion

Cancer detection on LATP biopsy correlates with PSA and PIRADS. High PSA and PIRADS in benign case management support selective re-biopsy strategies.