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In-bore MRI Guided Prostate Biopsy: Initial Experience

Abstract no.: PR. 10

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Objective

To evaluate the feasibility and safety of targeted and systematic in-bore MRI-guided prostate biopsy.



Our patient

- ✓ 63/M; Hx of APR for rectal cancer
- ✓ Present with ↑ PSA (21.0µg/l)
- ✓ mpMRI → a PI-RADS 5 lesion at right mid-transition zone's anterior sector

Procedure

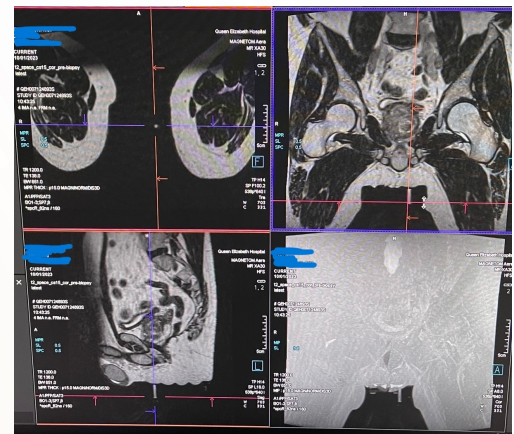
- ✓ GA; Limited lithotomy position
- ✓ MRI compatible perineal template grid and an 18G core-biopsy needle
- ✓ Initial MRI scanning to visualize lesion
- ✓ Pre- & post-needle deployment imaging
- ✓ 3 cores of targeted biopsies + 12 cores of systematic biopsies

Results

- ✓ Total procedure time → 3 hours & 2 minutes.
- ✓ Initial scanning time → 5 minutes & 10 seconds
- ✓ Pre- and post-scan → 2 minutes & 22 seconds
- ✓ Final pathology → no evidence of malignancy
- ✓ No complications up to 6 weeks post-procedure

Conclusion

- ✓ In-bore MRI-guided targeted and systematic prostate biopsy is safe and feasible, especially for those where transrectal ultrasound is not possible.
- ✓ Technique familiarity can result in a further reduction in procedural time.



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