



# Efficacy of Cryoablation of Small Renal mass: a Single Centre Review

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## Objective

To evaluate the efficacy and safety of cryoablation in patients with small renal mass.

## Patients and methods

Patients with small renal tumours (diameter  $\leq 4$  cm) who underwent image-guided cryoablation in Queen Elizabeth Hospital between September 2012 and September 2020

## Results

Number of patients	31 (M:F = 22:9)
Number of tumours	34
Mean age	70.4 (53 – 84; SD 7.8)
Mean tumour size	19.7 mm (7 – 29; SD 7.97)
Mean time to follow-up	47.5 months

- Technical success rate
  - 85.3% (29/34) after the 1st cryoablation
  - 97.1% (33/34) after the 2nd cryoablation.
- 5-year disease-specific survival : 100%.
- Overall survival
  - 3-year = 91.6%; 5-year = 77.3%
- Recurrence free survival
  - 3-year = 92%; 5-year 73%
- No Clavien-Dindo  $\geq$  grade 3 complications.
- No significant haemoglobin drop or deterioration in renal function post-procedure.



## Conclusion

Cryoablation appears to be an effective treatment modality for patients with small renal mass with excellent short- and intermediate-term survival outcomes and minimal complications.

