



Patient Pathway Options for Kidney Cancer

Renal cancer cryoablation is a well-established procedure suitable for treating a range of tumour sizes and locations within the kidney¹. Cryoablation destroys tissue through targeted and precise freezing.



Kidney Cancer Cryoablation:

- can be as effective as surgery and less damaging to healthy kidney^{1,2,3}
- is a curative and minimally invasive procedure¹
- is recommended by NICE^{4,5}
- provides physicians and patients with more therapeutic options



Benefits of cryoablation vs nephrectomy:



Lower procedural risk profile^{2,6,7}



One day stay in hospital vs four to five days^{1,6,12}



Lower risk of bleeding⁸



Faster recovery and return to normal activities^{8,10}



Lower post-operative complication rate^{2,9}



Can be conducted under local anaesthesia/conscious sedation^{7,13,14}



Shorter procedural times^{8,10,11}



Better overall survival rates¹⁴



Kidney cancer is the 7th most common cancer in the UK.¹⁵



Patient Pathways



David is 70 years old and has an ultrasound or CT scan for non-specific abdominal pain, which diagnoses a kidney cancer.



The Multi-Disciplinary Team (MDT) discusses David's case.

USING a Cryoablation Service

WITHOUT using a Cryoablation Service

The interventional radiologist in the MDT highlights David as suitable for cryoablation.

David has a **two-hour** cryoablation procedure, stays **overnight** in hospital and is home the following day.

One week later David returns to normal daily life and spending time with his friends and family.



RECOVERY TIME



The urologist offers David a nephrectomy. This could be a partial or total nephrectomy, to surgically remove a part or all the kidney. A total nephrectomy comes with a higher rate of complications and post operative limitations.

David undergoes a **four-hour** surgery and stays in hospital between **four** and **six** days.



Six weeks later David is slowly beginning to return to normal daily life.



RECOVERY TIME

REFERENCES: 1. Breen D, King A, Patel N, Lockyer R, Hayes M. Image-Guided Cryoablation for Sporadic Renal Cell Carcinoma: Three- and 5-year Outcomes in 220 Patients with Biopsy-Proven Renal Cell Carcinoma. *Radiology*. 2018; 289(2): 554-561. 2. Deng W, Chen L et al. Cryoablation versus Partial Nephrectomy for Clinical Stage T1 Renal Masses: A Systematic Review and Meta-Analysis. *J Cancer* 2019; 10(5):1226-36. 3. Pierozazio PM, Johnson MH et al. Management of Renal Masses and Localized Renal Cancer: Systematic Review and Meta-Analysis. *J Urol* 2016; 196(4):989-99. 4. Campbell S, Uzzo RG et al. Renal Mass and Localized Renal Cancer: AUA Guideline. *J Urol* 2017; 198:520-9. 5. Haramis G, Graverson J et al. Retrospective Comparison of Laparoscopic Partial Nephrectomy versus Laparoscopic Renal Cryoablation for Small (< 3.5 cm) Cortical Renal Masses. *J Laparoendosc Adv Surg Tech* 2012; 22(2):152-7. 6. Bimal B, Ross JM et al. Outcomes After Cryoablation Versus Partial Nephrectomy for Sporadic Renal Tumors in a Solitary Kidney: A Propensity Score Analysis. *Eur Urol* 2018; 73(2):254-9. 7. Chehab C, Friedlander JA et al. Percutaneous Cryoablation vs Partial Nephrectomy: Cost Comparison of T1a Tumors. *J Endourol* 2016; 30(2):710-6. 8. Georgiades CS & Rodriguez R. Efficacy and Safety of Percutaneous Cryoablation for Stage 1A/B Renal Cell Carcinoma: Results of a Prospective, Single-Arm, 5-Year Study. *Cardiovasc Intervent Radiol* 2014; 37(6):1494-9. 9. Cancer Research UK. (2018). Kidney Cancer Statistics. Available from: <https://www.cancerresearchuk.org/health-professional/cancer-statistics/statistics-by-cancer-type/kidney-cancer#heading=Zero>. 10. Morkos J, Porosnicu Rodriguez KA, Zhou A, et al. Percutaneous Cryoablation for Stage 1 Renal Cell Carcinoma: Outcomes from a 10-year Prospective Study and Comparison with Matched Cohorts from the National Cancer Database. *Radiology* 2020; 296:452-459. 11. Stacul F, Sachs C, Giudici F, et al. Cryoablation of renal tumors: long-term follow-up from a multicenter experience. *Abdom Radiol* 46, 4476-4488 (2021). 12. Patel SR, Francois S, Bhamber T, et al. Safety and effectiveness of percutaneous renal cryoablation with conscious sedation. *Arab J Urol* 2020 Mar 23;18(3):163-168. 13. Khunov Z, Juncal S et al. Comparison of outcomes in patients undergoing percutaneous renal cryoablation with sedation vs general anesthesia. *Urology* 2015; 85(1):130-4. 14. Patel SR, Francois S, Bhamber T, et al. Safety and effectiveness of percutaneous renal cryoablation with conscious sedation. *Arab J Urol*. 2020 Mar 23;18(3):163-168.

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