



Cryoablation of 2.3cm RCC Following Previous Contralateral Partial Nephrectomy

Dr. de Baere

Gustave Roussy Cancer Institute, Villejuif, France

Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

“ This case highlights the efficacy and rapid scarring process of the ablation zone typically seen after cryoablation. ”

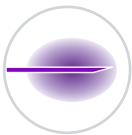


PRESENTATION

- ▶ 72-year-old male
- ▶ Left nephrectomy five years previously for renal cell carcinoma (RCC)
- ▶ CT revealed arterially enhancing nodule of 2.3cm in right kidney with washout in the venous phase **A**
- ▶ Patient refused another partial nephrectomy and after consultation agreed to renal ablation
- ▶ The renal tumour could not be depicted on ultrasound examination or non-contrast-enhanced CT



Image A: Contrast-enhanced CT (venous phase) a few days before treatment shows the hypodense 2.3cm right kidney tumour (arrow)



TREATMENT

- ▶ Super-selective injection of Lipiodol™ into tumour-feeding arteries to 'mark' the target tumour **B**
- ▶ One IceSphere™ 1.5 needle was inserted into the upper pole of the renal tumour **C**
- ▶ A second IceSphere™ 1.5 needle was inserted so the target tumour was surrounded using the 'chopstick' approach **D**

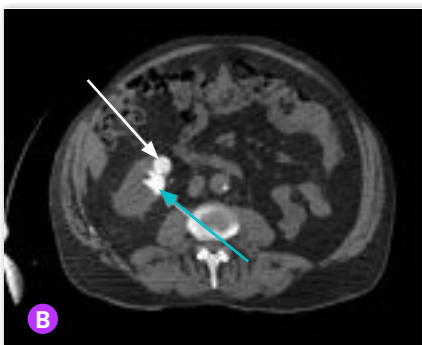


Image B: Non-contrast CT (axial view) immediately after super-selective injection of Lipiodol™ in tumour-feeding arteries shows 'marking' of the target tumour (white arrow) and some collected Lipiodol™ in the adjacent renal parenchyma (blue arrow)

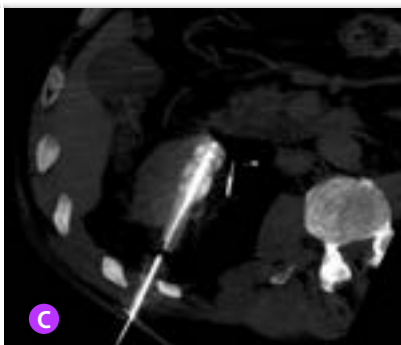


Image C: CT (axial plane) shows an IceSphere™ 1.5 needle inserted into the upper pole of the renal tumour

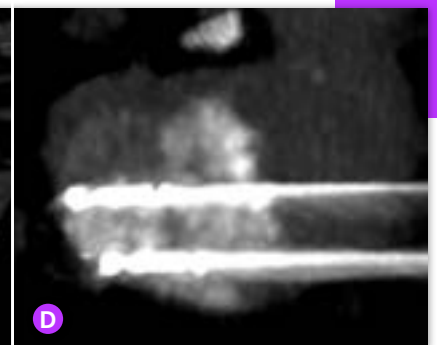


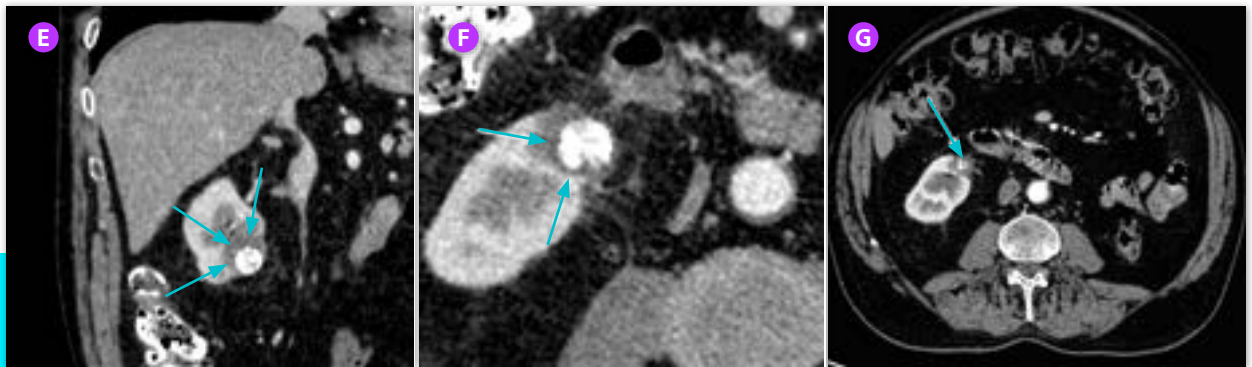
Image D: CT (parasagittal plane) shows two IceSphere™ 1.5 needles enclosing the target tumour using the 'chopstick' approach

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OUTCOME

- One-month follow-up CT scan showed the cryoablation zone with 'safety' margins around the Lipiodol™ marker in the tumour. The Lipiodol™ had been reabsorbed into the healthy renal parenchyma **E F**
- Three years post cryoablation:
 - CT shows there is a reduction in the size of the ablation zone **G**
 - Patient remains tumour-free with preserved renal function



Outcome: One-month follow-up CT in coronal (left) and axial (right) views show cryoablation zone with 'safety' margins (arrows) around the Lipiodol™ marker in the tumour. Note that the Lipiodol™ in the healthy renal parenchyma seen in **B** has been reabsorbed

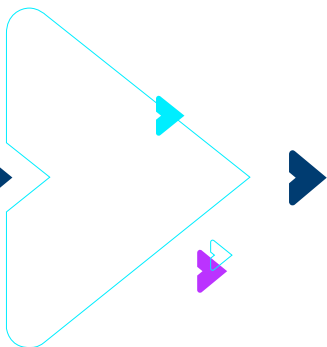
Outcome: Three-year follow-up CT shows a reduction of the ablation zone (arrow)



CONCLUSION

- Cryoablation of small renal tumours non visible on ultrasound or CT is possible with the help of intra-arterial injection of Lipiodol™. Lipiodol™ can remain for a very long period of time even after complete ablation

“ Combination of intra-arterial embolisation and cryoablation allows for accurate targeting in difficult cases. ”



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