Coaxial Needle

Procedural Information

Date of procedure: March 2018

Location: Strasbourg, France Hospital: University Hospital

of Strasbourg

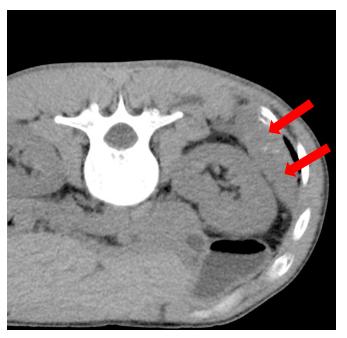
Physician: Julien Garnon, MD

Clinical Case Review 1

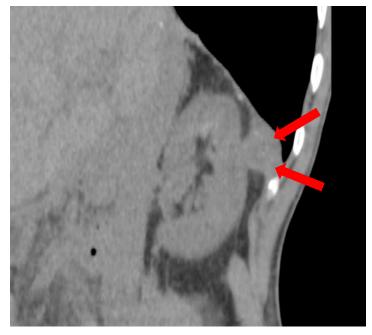
Diaphragmatic cryoablation close to the kidney

Case Description

33 years old man with a metastatic colon carcinoma was referred for cryoablation of a painful diaphragmatic met abutting the kidney. 3 cryoprobes were inserted in the tumor and a 12cm 17G Gangi-HydroGuard® was subsequently advanced in between the kidney, in order to perform hydrodissection and protect the kidney.



Axial CT view showing the diaphragmatic met (arrows)



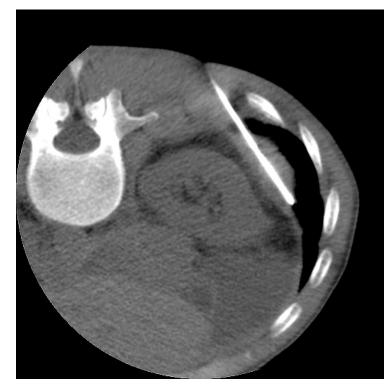
Coronal CT view

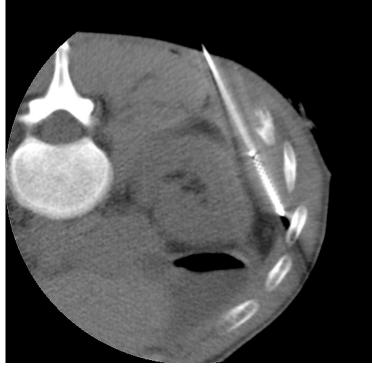


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Insertion of cryoprobe#1

Insertion of cryoprobe#2

Insertion of cryoprobe#3

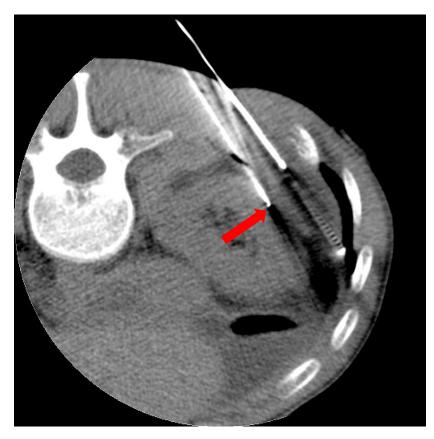


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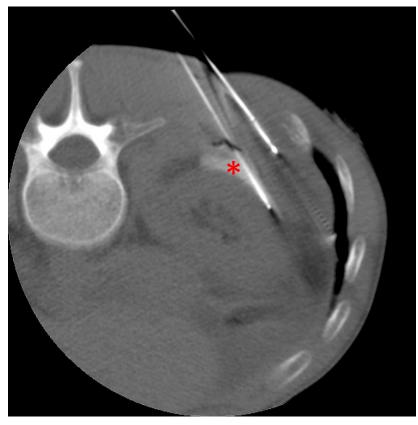
12 cm 17G Gangi-HydroGuard® (arrow) is advanced in between the kidney and the mass with the blunt tip deployed

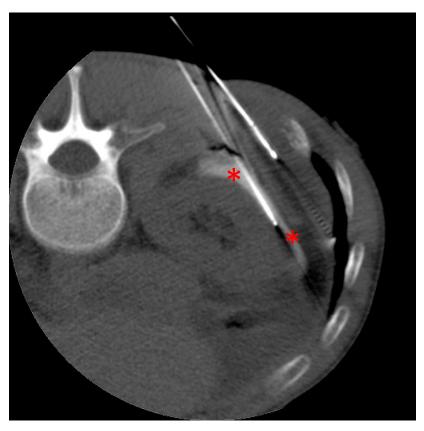


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Hydrodissection: 100ml of a mixture of saline and contrast (ratio saline-contrast: 50-1) is injected through the Gangi-HydroGuard® (asterisk),

Thereby allowing to physically separate the kidney from the mass (axial views)

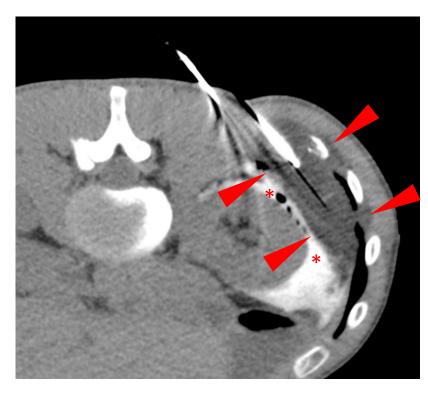


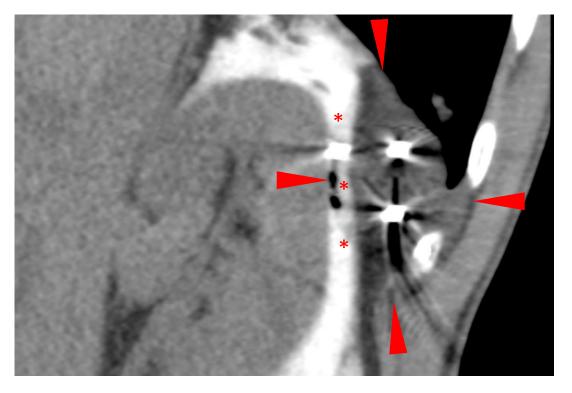
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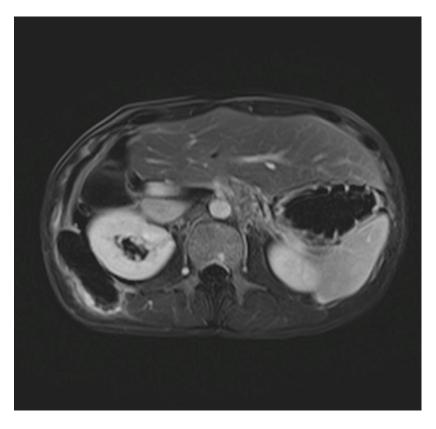
Axial (left image) and coronal (right image) shows complete coverage of the mass by the iceball (arrows) without any unintended ablation of the kidney thanks to hydrodissection (asterisk)



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One month follow-up contrast enhanced MRI shows good necrosis of the lesion without any damage to the kidney

Case and image courtesy of Julien Garnon, MD, University Hospital of Strasbourg, Strasbourg, France

