

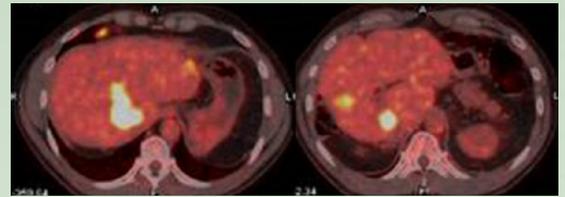
QuiremSpheres® treatment of a 61-year-old male patient with mCRC after right hepatectomy

Physician: Irene Bargellini, MD; Giuseppe Boni, MD; Elena Bozzi, MD; Rosa Cervelli, MD; Claudio Antonio Traino; Duccio Volterrani, MD; Roberto Cioni, MD

Location: Pisa University Hospital; Italy

CLINICAL CASE

A 61-years old male patient diagnosed with right colon adenoCa three years before (G2, pT3N2, KRAS mut) and liver metastasis one year later, treated with right hepatectomy and percutaneous ablation. Patient presents with hepatic progression after two lines of systemic chemotherapy (ECOG 0, normal liver function).

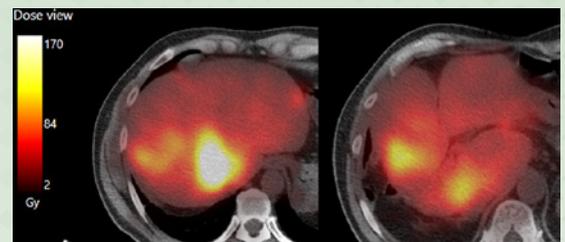


Baseline ¹⁸F PET/CT

PROCEDURE

SIRT was approved by multidisciplinary tumor board. Based on vascular anatomy angiography, ^{99m}Tc-MAA were injected in the two branches of the hepatic artery arising from the celiac trunk. Lung shunt was 3.7%. The total tumor volume was 60 cc. A dose of 60 Gy was planned on the remnant liver volume (1271 cc).

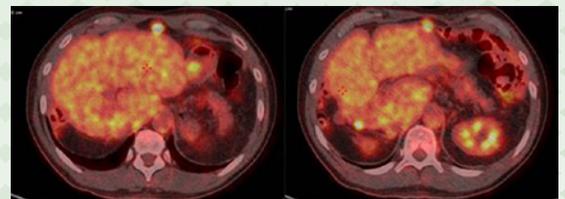
QuiremSpheres® (¹⁶⁶Ho-PLLA microspheres) with a total net activity of 2.96 GBq for the first branch and 1.46 GBq for the second branch were injected via a 2.7F microcatheter. Treatment was well-tolerated with no complications.



Dose distribution based on SPECT-CT calculated with Q-Suite™.

FOLLOW UP/ CONCLUSION

Post-treatment SPECT-CT and T₂* MRI showed excellent concentration of the microspheres in the liver lesions. Forty-five days after SIRT, CT demonstrated reduction in size of all the hepatic lesions, some of them showing peritumoral calcifications. PET-CT showed no ¹⁸F uptake of hepatic metastasis. However, extrahepatic tumor progression was observed, represented by abdominal lymph nodes and peritoneal nodules. The patient is now under systemic chemotherapy.



6 weeks follow-up ¹⁸F PET/CT

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