

THERASPHERE™ Y-90 Microspheres

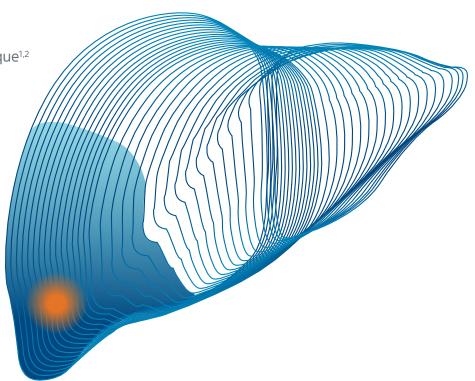
A LEAP IN LIVER TUMOR THERAPY?

Radiation Segmentectomy with TheraSphere - a precise way to selectively target tumors in patients with early HCC



Radiation segmentectomy is the application of a selective ablative dose of Yttrium-90 radiation with glass microspheres to tumors, usually delivered to no more than two hepatic segments¹

- Reproducible catheter-based technique^{1,2}
- TheraSphere is delivered directly to the tumor-bearing segment with a target dose of >190 Gy²
- Results in higher dose(s) to the segment producing excellent radiation tumor coverage and low clinical toxicity¹



"Radiation segmentectomy was found to generate outcomes consistent with treatments considered to be curative (RFA, resection and transplant)"

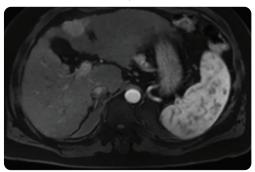
- Lewandowski et al. 2018

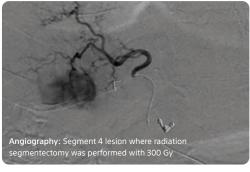
High Rates of Complete Pathologic Necrosis (CPN)³

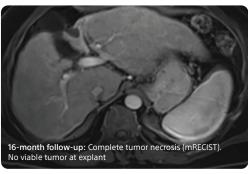
Solitary HCC ≤5cm

- All transplanted patients (n=33) had 90-100% pathologic necrosis
- More CPN observed with target dose of >190 Gy to the treatment area

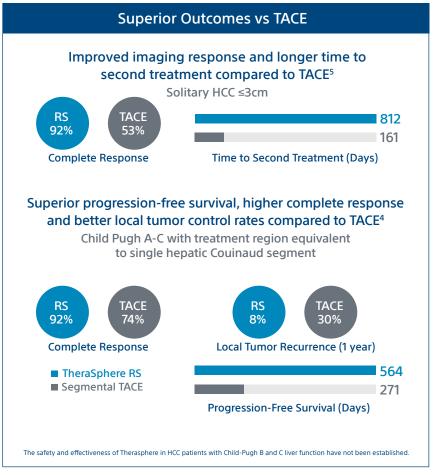
Dose to the liver does not exceed 150 Gy







Favorable Survival Outcomes Comparable to RFA, Resection and Transplant¹ Median overall survival (n=70) of 6.7 years Overall 55% 75% 37% 37% of 6.7 years Five-Year Survival by Tumor Size



Reprinted from Hepatology, Vol 60/edition 1, Michael Vouche, Ali Habib, Thomas J. Ward, pages 199-201, July 2014, with permission from Wiley

References 1. Lewandowski RJ, Gabr A, Abouchaleh N et al. Radiology 2018; 287(3). https://doi.org/10.1148/radiol.2018171768. 2. Riaz A, Gates VL, Atassi B et al. Int J Radiat Oncol Biol Phys 2011; 79(1): 163-71. 3. Vouche M, Habib A, Ward TJ et al. Hepatology 2014; 60(1): 192-201. 4. Padia SA, Johnson GE, Horton KJ et al. J Vasc Interv Radiol 2017; 28(6): 777-85 e1. 5. Biederman DM, Titano JJ, Korff RA, et al. J Vasc Interv Radiol 2018; 29: 30-37.e2.

TheraSphere™ Yttrium-90 Glass Microspheres

INDICATION FORUSE: Thereosphere is indicated for use as selective internal radiation theory (SRT) for local tumor control of solitary tumors (1-8 cm in diameter), in patients with unrescable hepatocellular carcinome (HCC, Olid - Pugh Sone A cimosis, well-compensated laws when further function, on macroscolar imason, and quod performance states. CONTRAINING/CIMIONS: Thereosphere is constructioned and particular straining of the control of the lungs stated than 30 (y in a single terretiment.) and open personal pe



Peripheral Interventions

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