



# A robust study confirming TheraSphere as a neoadjuvant or standalone therapy in treating HCC.

Salem R, Johnson GE, Kim E, Riaz A, Bishay V, Boucher E, Fowers K, Lewandowski R, Padia SA. Yttrium-90 Radioembolization for the Treatment of Solitary, Unresectable Hepatocellular Carcinoma: The LEGACY Study. Hepatology. 2021 Mar 19. doi: 10.1002/hep.31819.

# STUDY OBJECTIVE

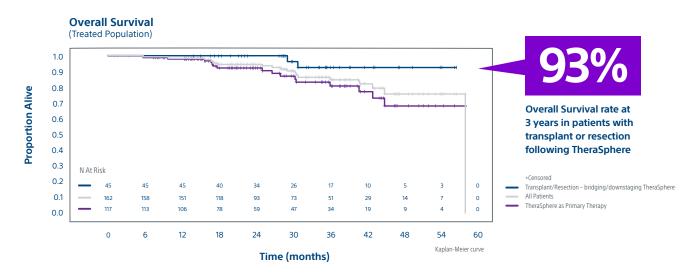
To assess local tumor control and duration of response following treatment with Y-90 glass microspheres in patients with unresectable solitary HCC lesions.

# **KEY RESULTS**

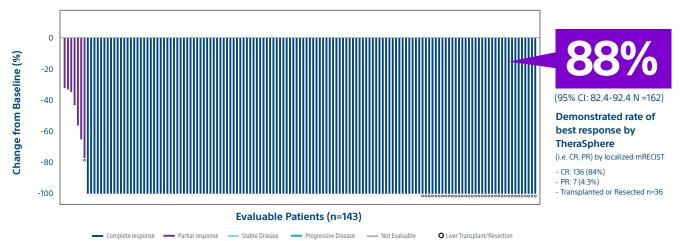
100%

# Patients in the LEGACY study responded to TheraSphere treatment(s)

- 96.8% with one TheraSphere treatment
- 100% with two TheraSphere treatments



#### **Tumor Response** (Best Response in evaluable population, localized mRECIST)



# **THERASPHERE** Y-90 Glass Microspheres | LEGACY STUDY

# STUDY DESIGN

Multi-center, single-arm, retrospective study conducted at 3 U.S. sites.\* Consecutive patients meeting the eligibility criteria were treated with TheraSphere Y-90 glass microspheres at each site between January 2014 and December 2017.

#### FIRST AND ONLY

- Used highly clinically relevant criteria for localized tumor control (mRECIST)
- Reported a median dose to perfused liver volume of 410 Gy
- Demonstrated 100% of patients achieved CR or PR (localized mRECIST)

#### **KEY ELIGIBILITY CRITERIA**

Unresectable solitary lesions (≤ 8 cm); Selective, lobar, or mixed administration of Y-90 glass microspheres (TheraSphere); Treatment purpose (neoadjuvant to transplantation or resection or stand-alone treatment); Child-Pugh score A; BCLC A or BCLC C (ECOG 1); No prior liver transplantation, resection, locoregional treatment or systemic therapy; No portal vein thrombosis or extrahepatic disease.

**KEY BASELINE** CHARACTERISTICS (N=162)

Median Age: 66 years

% of patients ≥ 75 years: **17.9** BCLC A: 60.5 BCLC C: 39.5 Median Tumor Size: 2.6 cm (0.9-8.1 cm)

# PRIMARY STUDY ENDPOINTS WERE MET

determined by Blinded Independent Central Review (BICR)

**Objective Response Rate** 

**72.2%**<sup>1</sup> (n=117/162)

Objective Response Rate (ORR) defined as CR or PR using localized mRECIST (defined as the response within the Y-90 glass microsphere treatment area) with confirmation of response (> 4weeks).

**Duration of Response** 

**76.1%**<sup>2</sup> (n=89/117)

(≥ 6 months)

Duration of Response<sup>3</sup> (DoR) using localized mRECIST

Safety: Majority of adverse events were mild and resolved without medical

# LEGACY STUDY CONCLUSION

LEGACY is the first multicenter study to report a high median perfused volume absorbed dose of 410 Gy with TheraSphere, which resulted in an 88% best response, excellent and durable tumor control and high overall survival rate in patients with early and advanced HCC.

hepatocellular carcinoma; BCLC: Barcelona Clinic Liver Cancer staging system; Y-90: Yttrium-90; Gy: Gray; IQR: Interquartile Range

- \*University of Washington, Seattle, WA; Northwestern University, Chicago, IL; Mount Sinai Health System, New York, NY
- Officers you wantington, seatile, with, Northwestern Officers by Clicago, it, Mount Shan Health System, New 1. Complete Response (CR) and Partial Response (PR) within the treatment area according to localized mRECIST 2. Duration of Response (DoR) According to localized mRECIST 3. Median follow-up was 29.9 months [95% CI: 24.7, 34.6]

#### TheraSphere" Yttrium-90 Glass Microspheres

INDICATION KONUSE: Therapshore is indicated for use as selective internal radiation therapy (SRT) for local tumor control of solitary tumors (1-8 cm in diameter), in patients with unresectable hepatocellular racrionam (HCL), Child-Pugh Score A cirrhosis, well-compensated liver function, no macrovascular imasion, and good performance status. CONTRABIDICATIONS: Therapshere is contraindicated in patients whose. P-99m macroaggregated albumin (IMAA) hepatic raterial perfusion sortiography shows any deposition to the gastrointestinal tract that may not be correctly a praioparticly extension (Images who is how sharing of blood to be ledges) or greater than 165 mCl (6.6 Get) of 1-90 to the lungs. Radiation naturement has been seen extensively possess the large greater than 165 mCl (6.6 Get) of 1-90 to the lungs. Radiation internal extension sortion greater than 165 mCl (6.6 Get) of 1-90 to the lungs. Radiation interflexively and interflexively conventionally defined by an artical longer possess ready in patients extensively observed the lungs and sometiments are the large sortion of 1-90 to 1-PVT seen on the Ti-99m MAA magaing with -70% tumor replacement in the live \* with comorbidities or poor overall health (e.g. ECOS performance status rating -2) which many make the patient a poor candidate for toxenegonal radiation treatment. \* who are presignant WARNINGS. The following per-teritorism high-pirics discross (species carbacteristics) have been associated with serious abuse associated with several several produces again, the produces of the patient treatment, which pirics discross (species carbacteristics) have been associated with several several produces again, the patient treatment, which pirics the produces are produced as a produced produce again, the patient treatment is required and produces again, the patient treatment is required and produces again, the patient treatment is required and produced by the patient produces again, the patient produces again, the patient produces again, the patient produces again, the patient produces are produced by the patient produces again, the patient produces are produced by the patient produces again, and the patie TheraSphere is a registered trademark of Theragenics Corporation used under license by Biocompatibles UK Ltd. All other trademarks are property of their respective owners.



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