



PROACTIF: A prospective, real-world Y-90 study with TheraSphere for the treatment of liver malignancies: Interim data of 168 intrahepatic cholangiocarcinoma (ICC) patients.

THERASPHERE DEMONSTRATED OVERALL SURVIVAL OF 18.1 MONTHS FOR 168 ICC PATIENTS IN PROACTIF

PROACTIF Overview

STUDY OBJECTIVE AND ENDPOINTS

The study aims to gather data on effectiveness, patient quality of life (QoL), and safety with use of TheraSphere Y-90 glass microspheres in real-world clinical settings in France.

Primary Endpoints

Overall survival (OS) from time of TheraSphere treatment and QoL, as assessed using the functional assessment of Cancer Therapy – Hepatobiliary (FACT-Hep) questionnaire.

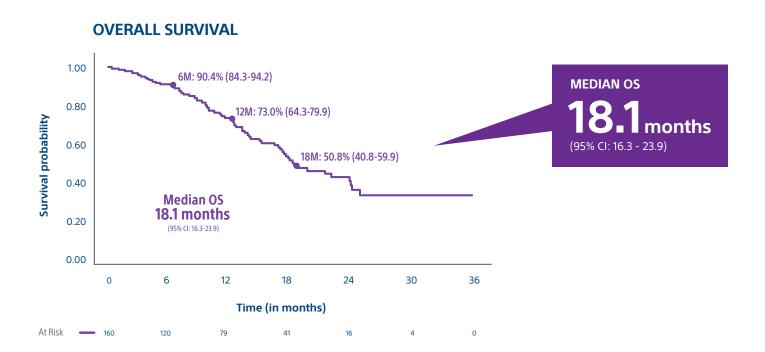
Key Secondary Endpoints

Grade ≥ 3 AEs, SAEs, tumor response, tumor marker response, subsequent therapy, and dosimetry evaluations.

PROACTIF is the largest, prospective, real-world Y-90 study of primary liver cancer in 1,000+ patients.

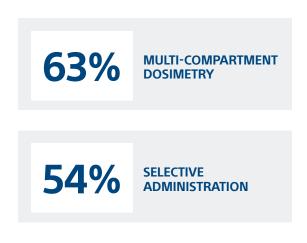
Use of TheraSphere in treatment of ICC is outside the labeled indications as safety and effectiveness has not been established.

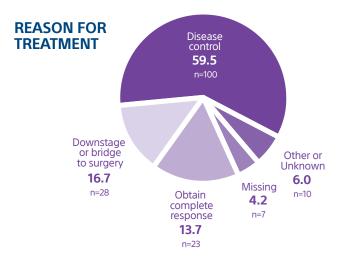
INTERIM DATA OF 168 ICC PATIENTS ACROSS 32 SITES



THERASPHERE™ Y-90 Glass Microspheres | PROACTIF STUDY

DATA FROM 32 SITES USED CONTEMPORARY TECHNIQUES AND DOSING





MAJORITY OF PATIENTS HAD SINGLE LESION WITH INDEX LESION > 5CM

PATIENT DEMOGRAPHICS & DISEASE CHARACTERISTICS

Variable	n(%)	Variable	n(%)	Variable	n(%)
Age, median (years)	69	Liver Disease Etiology	Portal Vein Thrombosis		
≥ 18 to < 65	51 (30.4)	No underlying disease	109 (64.9)	Yes	28 (16.7)
≥ 65 to < 75	57 (33.9)	Alcohol	30 (17.9)	Cruoric*	2 (7.1)
≥ 75	51 (30.4)	Hepatitis B/C	11 (5.4)	Tumoral	26 (92.9)
Missing	9 (5.4)	Metabolic	19 (11.3)	ECOG Permormance status	
Gender		Unknown/Other	17 (10.1)	0-1	146 (86.9)
Female	88 (52.4)	Total Lesions		2-3	5 (3.0)
Comorbidities (top 5)		1	84 (50.0)	Missing	17 (10.1)
None	47 (28.0)	2-4	54 (32.1)	ALBI Grade	
Alcohol	45 (26.8)	>5	25 (14.8)	1	86 (51.2)
Arterial Hypertension	68 (40.5)	Missing	5 (3.0)	2 or 3	39 (23.2)
Hyperglycemia (diabetes)	41 (21.4)	Index Lesion Diameter		Missing	43 (25.6)
Tobacco	44 (26.2)	Mean size, mm	70.7	Child Pugh	
Liver Disease		>5 cm	99 (67.8)	A	77 (45.8)
Normal/No History	92 (54.8)	Extrahepatic Disease		В	7 (4.2)
Cirrhosis	36 (21.4)	Yes	7 (4.2)	Missing	84 (50.0)
Fibrosis	17 (10.1)	No	158 (94.0)		
Missing	23 (13.7)	Missing	3 (1.8)		

*Non-malignant thrombus

CONCLUSION

Appropriately selected ICC patients treated with TheraSphere demonstrated an overall survival of 18.1 months using Y-90. This dataset helps build foundational real-world data for an under-studied disease state.

This study is sponsored by Boston Scientific. Final results are expected in 2025 and will include full patient population with additional information on quality of life, safety and dosimetry.

Garin E, Bennot-Rossi I, Tilli G et al. Abstract 222.4 Treatment of intrahepatic cholangiocarcinoma with Y-90 glass microspheres in the PROACTIF study. ECO 2024 Book of Abstracts. Cardiovasc intervent Radiol 47 (Suppl 4); 2024. p.60 https://doi.org/10.1000/i500270-024-03732-x Booton Scientific is not responsible for the collection, analysis or reporting of the investigator-sponsored research output which is the sole responsibility of the investigators is postnored research or the provident primarial support to research that advancem medical and scientific knowledges about our products indications, contrainal classific, warmings and instruction for use can be found in the product tabeling upplied with each office about our products.

TheraSphere™ Yttrium-90 Glass Microspheres

INDICATION FOR USE: The aSphere is indicated for use as selective internal radiation therapy (SRT) for local tumor control of soiltary tumors (1-8 cm in diameter), in patients with unresectable hepatocellular carcinoma (HCC), Chid-Pugh Score Acinhosis, well-compensated lover fundon, no macrousscular invasion, and good performance status. COMTRAINOCATIONS. These-Sphere is contrainationated in patients: whose E-997m macroagogregated albumin (MAA) hepatic arterial perfusion somitingpoly shows any deposition to the gastrointestinal teat that may not be contreted by analogograph techniques. who who withing to flood to be lungs that not for soil of seal and the patients received by a songle treatment. In whom hepatic artery cathedrecistical in some status on the patient received by displaying a natural contraination and sold present received by displaying analogograph status in (S. 201) of 950 floor services of displaying analogograph status in (S. 201) of 950 floor services of displaying analogograph status in (S. 201) of 950 floor services of displaying analogograph status in (S. 201) of 950 floor services of displaying analogograph status in (S. 201) of 950 floor services of displaying analogograph status in (S. 201) of 950 floor services of services and the patient status in the patient status of the services of services of the patient status in the patient status of the services of the services in the patient status of the services of the services in the patient status of the services of the services in the patient status of the services in the patient status of the services of the services in the patient status of the services in the large of the services in the patient status of the services in the large of the services in the services of the services of the services



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