

Late-Breaking Data Demonstrate Improved Progression-Free Survival in Patients with Metastatic Colorectal Cancer After Treatment with Boston Scientific TheraSphere™ Y-90 Glass Microspheres

EPOCH trial represents the first positive phase 3 study for selective internal radiation therapy

MARLBOROUGH, Mass. (September 20, 2021) – Boston Scientific Corporation (NYSE: BSX) announced the EPOCH clinical trial of the TheraSphere™ Y-90 Glass Microspheres (TheraSphere treatment) successfully met both primary endpoints, including progression-free survival (PFS) and hepatic progression-free survival (hPFS) of patients with metastatic colorectal cancer (mCRC) of the liver. In the trial, TheraSphere treatment – a selective internal radiation therapy (SIRT) comprised of microscopic glass beads containing radioactive yttrium (Y-90) that are specifically delivered to target tumors – was used as a second-line treatment in combination with standard of care systemic chemotherapy (SOC) for patients who had disease progression during or after first-line chemotherapy. The clinical findings were presented today as late-breaking data at the European Society for Medical Oncology (ESMO) Congress 2021 and will be published in the Journal of Clinical Oncology.

“The EPOCH trial not only demonstrated positive safety and efficacy data for the patients treated in this study, but underscores the success of integrating a device-based therapy like TheraSphere treatment in the continuum of care with systemic chemotherapy and biologic regimens, thereby providing the rationale and setting the stage for future investigation in other cancer types,” said Riad Salem, M.D., M.B.A, interventional radiologist at Northwestern Memorial Hospital and co-principal investigator of the EPOCH trial.^[i]

An estimated 1.9 million global cases of colorectal cancer (CRC) are diagnosed each year, making it the third most common cancer worldwide.^[ii] Approximately one third of all patients with CRC present with, or subsequently develop, metastases in the liver (liver dominant mCRC).^[iii] Patients with mCRC are most commonly treated with surgery and systemic chemotherapy, a therapy that targets the entire body. TheraSphere treatment, indicated for use in patients with hepatic neoplasia/malignancies including liver dominant mCRC in Canada, Europe and regions of Asia, delivers Y-90 directly to liver tumors via catheter, which minimizes radiation exposure to surrounding healthy tissue.

“EPOCH is the first positive phase 3 SIRT trial in any disease setting and the data is expected to support our regulatory submission to the U.S. FDA, with the hope that more patients with liver dominant mCRC will gain access to TheraSphere as a treatment option in the future,” said Peter Pattison, president, Interventional Oncology, Peripheral Interventions, Boston Scientific.

The global, prospective EPOCH pivotal clinical trial is a phase 3 study, designed to assess therapeutic benefit compared to SOC, which randomized 428 patients with mCRC to second line chemotherapy, with or without the addition of TheraSphere treatment. Both primary endpoints were met and included progression-free survival and hepatic progression-free survival, which reflect how long patients live without the disease progressing further, both systemically and within the liver. The addition of TheraSphere treatment significantly increased both PFS ($p=0.0013$) and hPFS ($p<0.0001$). Patients receiving TheraSphere treatment with second-line chemotherapy were 31% less likely to show disease progression or death (HR = 0.69) and 41% less likely to show hepatic disease progression or death versus with chemotherapy alone (HR = 0.59).

“In the second line of therapy for metastatic colorectal cancer, with disease isolated to the liver, the addition of TheraSphere with chemotherapy resulted in a significant delay in overall tumor progression,” said Mary F. Mulcahy, M.D., medical oncologist at Northwestern Memorial Hospital and co-principal investigator of the EPOCH trial.ⁱ “Additionally, chemotherapy-related adverse events were comparable between the trial arms.”

Earlier this year, the [U.S. FDA approved TheraSphere](#) for the treatment of unresectable hepatocellular carcinoma (HCC) and granted Breakthrough Device Designation for expedited review as a treatment of patients with glioblastoma, an aggressive type of cancer that can occur in the brain or spinal cord. It is the only radioembolization technology in the U.S. indicated for unresectable HCC.

CAUTION: In the U.S., the use of TheraSphere for mCRC is for investigational use only as the safety and effectiveness have not been established.

For more information on TheraSphere treatment, visit www.therasphere.com.

About Boston Scientific

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Cautionary Statement Regarding Forward-Looking Statements

This press release contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements may be identified by words like “anticipate,” “expect,” “project,” “believe,” “plan,” “estimate,” “intend” and similar words. These forward-looking statements are based on our beliefs, assumptions and estimates using information available to us at the time and are not intended to be guarantees of future events or performance. These forward-looking statements include, among other things, statements regarding our business plans, clinical trials, product launches and product performance and impact. If our underlying assumptions turn out to be incorrect, or if certain risks or uncertainties materialize, actual results could vary materially from the expectations and projections expressed or implied by our forward-looking statements. These factors, in some cases, have affected and in the future (together with other factors) could affect our ability to implement our business strategy and may cause actual results to differ materially from those contemplated by the statements expressed in this press release. As a result, readers are cautioned not to place undue reliance on any of our forward-looking statements.

Factors that may cause such differences include, among other things: future economic, competitive, reimbursement and regulatory conditions; new product introductions; demographic trends; intellectual property; litigation; financial market conditions; and future business decisions made by us and our competitors. All of these factors are difficult or impossible to predict accurately and many of them are beyond our control. For a further list and description of these and other important risks and uncertainties that may affect our future operations, see Part I, Item 1A – *Risk Factors* in our most recent Annual Report on Form 10-K filed with the Securities and Exchange Commission, which we may update in Part II, Item 1A – *Risk Factors* in Quarterly Reports on Form 10-Q we have filed or will file hereafter. We disclaim any intention or obligation to publicly update or revise any forward-looking statements to reflect any change in our expectations or in events, conditions or circumstances on which those expectations may be based, or that may affect the likelihood that actual results will differ from those contained in the forward-looking statements. This cautionary statement is applicable to all forward-looking statements contained in this document.

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[\[i\]](#) Drs. Riad Salem and Mary F. Mulcahy are paid consultants for Boston Scientific Corporation. They have not been compensated for their quotes within this press release.

[\[ii\]](#) Sung H, Ferlay J, Siegel RL, et al. Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA Cancer J Clin* 2021;71(3):209-249. DOI:10.3322/caac.21660.

[\[iii\]](#) Siebenhüner, A.R., Güller, U. & Warschkow, R. Population-based SEER analysis of survival in colorectal cancer patients with or without resection of lung and liver metastases. *BMC Cancer* 20, 246 (2020). <https://doi.org/10.1186/s12885-020-6710-1>

<https://news.bostonscientific.eu/EPOCH-clinical-trial-TheraSphere>