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«Hospital_Name»
«Users_Name»
«Department»
«Customer_Address»
«Zip_Code» «City»
«Country»

<<u>Reference</u>: 97251520-FA>

10 October 2024

Urgent Field Safety Notice – Product Advisory POLARx[™] and POLARx[™] FIT Cryoablation Catheter Instructions for Use (IFUs) related to the risk of atrio-esophageal (AE) fistula

Dear «Users_Name»,

This letter provides important information regarding updates to the POLARx[™] and POLARx[™] FIT Cryoablation Catheter Instructions for Use (IFUs) related to the risk of atrio-esophageal (AE) fistula, as detailed in **Appendix 1**. The POLARx Cryoablation Catheters (applicable device information listed below) are components of the Boston Scientific POLARx Cryoablation System, which is used in conjunction with the SMARTFREEZE[™] Console.

POLARx Cryoablation Catheters

| Product Description | Material Number (UPN) | GTIN Number |
|--------------------------------------|-----------------------|----------------|
| CRBS POLARX BALLOON CATHETER ST 28MM | M004CRBS2000 | 08714729992561 |
| CRBS POLARX BALLOON CATHETER LT 28MM | M004CRBS2100 | 08714729992660 |
| CRBS POLARX FIT BALLOON CATHETER ST | M004CRBS2010 | 08714729992578 |
| CRBS POLARX FIT BALLOON CATHETER ST | M004CRBS2060 | 08714729992622 |
| CRBS POLARX FIT BALLOON CATHETER LT | M004CRBS2110 | 00191506016456 |
| CRBS POLARX FIT BALLOON CATHETER LT | M004CRBS2160 | 00191506016463 |

Description:

AE fistula is a known and inherent risk for patients undergoing catheter ablation for atrial fibrillation. Although uncommon, esophageal injury is a potentially life-threatening complication due to proximity of the esophagus to the posterior left atrium. Since commercial introduction of the POLARx Cryoablation System in 2020, Boston Scientific has received seven (7) reports (worldwide) of AE fistula occurring following atrial fibrillation ablations; four (4) of these reports were associated with a patient death. Detailed investigation of the available data associated with these AE fistula events did not identify product performance-related issues with any component of the cryoablation system; however, frequency and intensity of cryoablation applications were observed as possible contributing factors. Therefore, Boston Scientific is updating the POLARx and POLARx FIT cryoablation balloon catheter IFUs to emphasize the risk of AE fistula, as well as practices that may reduce this risk. These IFU updates align with the FROZEN AF clinical trial¹. Boston Scientific is communicating the risk of AE fistula associated worldwide regulatory authorities to minimize the risk of AE fistula associated with use of the POLARx Cryoablation System. Following applicable regulatory approval, updated IFUs will be packaged and shipped with corresponding POLARx Cryoablation System devices.

Recommendations

1- Review the IFU Updates related to AE fistula, as detailed in **Appendix 1**.

2- Review **Table 1** for a summary of cryoablation application parameters from the FROzEN AF clinical trial, which demonstrated safety and effectiveness of the POLARx Cryoablation System.

| Parameters | Left Inferior (LIPV | Left Superior (LSPV) | Right Inferior (RIPV) | Right Superior (RSPV) |
|---|------------------------|-------------------------|--------------------------|--------------------------|
| # of cryo applications | 1.67 ± 1.18 | 1.77 ± 1.23 | 1.8 ± 1.42 | 1.86 ± 1.24 |
| # of cryo applications >60s | 1.54 ± 0.97 | 1.61 ± 0.96 | 1.63 ± 1.12 | 1.63 ± 0.95 |
| Lowest Measured Balloon Temperature (°C) | -53.95 ± 7.45 | -58.29 ± 5.96 | -55.63 ± 6.43 | -58.36 ± 6.33 |
| Total Duration (min) | 4.34 ± 2.36 | 4.41 ± 2.35 | 4.49 ± 2.82 | 4.3 ± 2.22 |

Table 1: Cryoablation Parameters from the FROzEN AF Clinical Trial

3- To provide awareness of this information, share this communication with clinicians in your hospital that use the Boston Scientific POLARx Cryoablation System, including the POLARx Catheter, the POLARx FIT Catheter and the SMARTFREEZE Console. Also share this communication with any other organization to which these devices may have been transferred.

4- Maintain a copy of this notice in your facility's records.

Instructions:

- Immediately post this information on or near the product to ensure this information is easily accessible to all users of the device.
- Please complete the enclosed Acknowledgment Form and send it to Boston Scientific at «Customer_Service_Fax_Number» by 30 October 2024.
- Any adverse events or quality concerns associated with use of this product should be reported to Boston Scientific.

¹ Ellenbogen LA, Mittal S, Varma N, et al. One-year outcomes of pulmonary vein isolation with a novel cryoballoon: primary results of the FROZEN AF trial. *J Cardiovasc Electrophysiol*. 2024;35:832-842. doi:10.1111/jce.16220

Although Boston Scientific is not physically recalling any product, your Competent Authority is being notified of this Field Safety Notice.

Patient safety remains Boston Scientific's highest priority. We are committed to ensuring you have timely, relevant information for managing your patients and optimizing safe and effective product use. If you have additional questions regarding this communication, please contact your local Boston Scientific sales representative.

Sincerely,

Marie Pierre Barlangua Quality Department Boston Scientific International S.A. <u>Attachments</u>: - APPENDIX 1 – IFU Updates - Acknowledgment Form

<u>APPENDIX 1 – Updates to POLARx[™] and POLARx[™] FIT</u> <u>Instructions for Use (IFU)</u>

NOTE: Table 2 provides additional warnings and procedural instruction updates to various sections of the IFU for the POLARx and POLARx FIT Catheters; the updated wording is provided in red text.

| Section | Labeling Updates | | |
|-----------|---|--|--|
| | Cryoablations may cause collateral thermal injury to the esophagus and in rare instances atrio-esophageal (AE) fistulas. Temperature monitoring with a probe placed within the esophagus may mitigate this risk. To minimize potential esophageal injury, the following is recommended: | | |
| | Monitor the location of the cryoballoon relative to the esophagus prior to delivering cryotherapy. | | |
| | - Avoid performing cryoablation directly over the esophagus. | | |
| Warnings | DO NOT perform cryoablation directly on the posterior wall of the left atrium, as this may place the cryoballoon over the esophagus and increase the risk of freezing injury to the esophagus. | | |
| | Avoid catheter manipulation that may deform the cryoballoon or displace the atrium towards the esophagus. | | |
| | Ablate cautiously if the balloon is within close proximity to the esophagus. Stop the ablation if the balloon temperature decreases to -65 °C and avoid repeating ablations immediately in the same location to minimize potential for thermal accumulation. | | |
| | - Utilize temperature monitoring with a probe placed in the esophagus. Stop the ablation if the esophagus probe measurement decreases to 20 °C and allow the esophagus probe temperature to return to baseline levels before initiating another cryoablation application. | | |
| | 16. Perform the cryoablation. (Refer to the SMARTFREEZE Console User's Manual for setup, setting and use). To minimize the potential for unintended thermal injury, the following is recommended: | | |
| | Utilize standard-of-care practices for verifying balloon position, esophageal monitoring, and phrenic nerve monitoring. | | |
| Procedure | • Ensure the balloon is appropriately positioned prior to starting cryoablation. | | |
| Trocedure | Utilize the minimum number of cryoablation applications necessary to achieve PV isolation and avoid immediately repeating ablations in the same location. Note the POLARx FIT cryoablation catheter demonstrated effectiveness in the FROZEN AF clinical trial without use of additional applications following PV isolation. | | |
| | Stop the ablation if the balloon temperature decreases to -65 °C. | | |

Table 2: Updates to POLARx and POLARx FIT IFU



Please complete the form & Send it to: «Customer_Service_Fax_Number»

«Sold_to» - «Hospital_Name» - «City» - «Country»

Acknowledgement Form – Urgent Field Safety Notice

POLARx[™] and POLARx[™] FIT Cryoablation Catheter Instructions for Use (IFUs) related to the risk of atrio-esophageal (AE) fistula

97251520-FA

By signing this form, I confirm that

I have read and understood the Boston Scientific Field Safety Notice

dated 10 October 2024 for

POLARx[™] and POLARx[™] FIT Cryoablation Catheter Instructions for Use (IFUs) related to the risk of atrio-esophageal (AE) fistula

| NAME* | Title |
|--------------------------------|---------------------|
| Telephone E | Email |
| SIGNATURE* * Required field | DATE* dd/mm/yyyy |