HIGHLIGHTS

The study found LAAC sheath delivery with the VersaCross® RF Transseptal Solution was:

- **Efficient**: Transseptal puncture and LAAC sheath delivery on average in under 7 mins.
- **Exchangeless**: Faster LA access by combining a starter wire, RF transseptal device and exchange rail in a 3-in-1 solution.
- **Effortless**: Controlled RF puncture with a single wire.

INTRODUCTION

- Left atrial (LA) catheterization requires numerous device exchange steps, and has associated risks and safety concerns.
- The VersaCross® RF Transseptal Solution (Baylis Medical) enables vascular cannulation, transseptal puncture (TSP) and device exchange using a single RF-tipped pigtail wire.

METHODS

- Consecutive series of left atrial appendage closure (LAAC) using WATCHMAN™ (Boston Scientific) or Amulet™ (Abbott) devices were retrospectively evaluated.
- Femoral access was obtained for inferoposterior TSP using two methods:

**Conventional approach (n=10):**

- Requiring a starter wire, sharp mechanical needle (BRK-1™ Transseptal Needle, Abbott), fixed curve sheath (Swartz™ Transseptal Guiding Introducers, Abbott) and stiff exchange wire (Amplatz Super Stiff™, Boston Scientific or ProTrack™ Pigtail Wire, Baylis Medical)

**VersaCross® RF Transseptal Solution (n=10):**

- Comprised of the VersaCross® RF Wire, VersaCross® sheath, and dilator

Efficiency was assessed in terms of time from femoral access to TSP, delivery of LAAC sheath in the LA, device release, overall procedure, and fluoroscopy use.

Safety was assessed in terms of intraprocedural and in-hospital complications.

RESULTS

- **LAAC success was 100% using both methods, with no complications.**
- Significant improvement in LA access times using VersaCross® Solution vs. conventional method:
  - Shorter time to TSP [4.1±2.5 min vs. 8.4±4.0 min (p = 0.009)]
  - Less time for LAAC delivery sheath into LA [6.7±2.4 min vs. 13.4±5.4 min (p = 0.002; Figure 1)]
- Trend for overall procedural improvement using VersaCross® Solution vs. conventional method:
  - Shorter time to device release [23.7±6.4 min vs. 31.2±10.0 min (p = 0.062)]
  - Less fluoroscopy use [7.2±2.2 min vs. 11.4±5.9 min (p = 0.061)]

**Time for LAAC Sheath Delivery**

<table>
<thead>
<tr>
<th>VersaCross® RF Solution</th>
<th>BRK™ needle + SL sheath</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.7 min</td>
<td>13.4 min</td>
</tr>
</tbody>
</table>

**2x Faster†**

*From femoral access to LAAC sheath delivery using VersaCross® Transseptal Solution compared to a conventional mechanical needle and fixed curve sheath (Inohara et al., 2021).

**Figure 1** LAAC sheath delivery is two times faster using the VersaCross® Transseptal Solution than the conventional workflow* (†p=0.002).

DISCUSSION & CONCLUSIONS

- VersaCross® RF Transseptal Solution combines a starter wire, transseptal needle and exchange guidewire for faster LA access, and may improve overall procedural efficiency.