



## Tips & Techniques

for the implantation of

**Tyke®**

for patch, pledget, and intracardiac repair in neonates and infants

**Refer to the Instructions for Use for indications, full implant instructions, warnings and precautions, and contraindications.**

### PRE-OP EVALUATION:

- ☑ **Assess repair:** Tyke should be used in neonates or infants to reconstruct the pericardium or intracardiac repair structures less than or equal to 12mm in diameter. **If vessels exceed this size, use ProxiCor®.**
- ☑ **Estimate post-op pressure:** Tyke should only be used to reconstruct structures where the post-operative pressure is not expected to exceed 50mgHG. **If vessels exceed this pressure, use ProxiCor.**

### DO:

- ☑ **Hydrate properly:** Hydrate (soak) Tyke in **room-temperature** saline for **up to 1 minute**. Do not allow Tyke to dry out after soaking. Excessive hydration may result in delamination. **Do not use** if delamination is visible.
- ☑ **Size material appropriately:** To promote effective remodeling, use only what is needed of the material. Tyke should not be pulled too tight, and sutures should not be pulling. **Minimize material redundancy and tension.**
- ☑ **Use non-absorbable sutures:** Prolene suture is recommended.
- ☑ **Implant properly:** Sew to healthy, viable tissue – Tyke ECM relies on angiogenesis and cellular infiltration from the sutured edge. Stitches should be **less than 3 mm**. Suture bites should be placed **at least 2 mm from the edge** of the ECM patch during implantation. **Note:** If using Tyke to repair a congenital ASD/VSD, it is recommended to wipe off the endothelial lining prior to implanting which may facilitate remodeling.
- ☑ **Suture circumferentially:** You may use stay stitch/sutures to hold in place while suturing. Make sure all layers of Tyke are penetrated to ensure good tissue approximation and regeneration potential.

### DON'T:

- ☒ **Use without hydrating:** Without proper hydration, Tyke will tear and not retain sutures.
- ☒ **Use with glues, sealants, or platelet gels:** Avoid using glue glutaraldehyde-based and hemostatic agents as they may increase crosslinking and negatively impact remodeling.
- ☒ **Sew to synthetic or non-viable material:** Do not sew to synthetic or non-viable material (i.e. scar tissue or tissue damaged due to radiation).
- ☒ **Save or Reuse:** Discard all open or unused portions of Tyke.
- ☒ **Use in patients with connective tissue disorders:** i.e. Marfan Syndrome

### NOTE:

- ☒ Tyke is not indicated for the construction or replacement of total valves or conduits.