BG3510-5-US  Syringe 10mL 5-Pack Kit  Five single packs – Each contains one 10mL syringe and syringe plunger,
BGDTE-10   10cm Delivery Tip Extension 20 pack kit  Ten double packs – Each pack contains two 10cm Delivery Tip Extensions
BGAT-27-SY    Syringe 27cm Applicator Tip   Ten single packs – Each contains four 27cm syringe tips
BGST-12   Syringe 12mm Spreader Tip  Ten single packs – Each contains three 12mm spreader tips
BGAT-10-SY   Syringe 10cm Applicator Tip  Ten single packs – Each contains four 10cm syringe tips
BG3500N   Syringe Delivery Device   One single pack – Contains one non-sterile reusable syringe delivery device
BG3515-5-US  Syringe 5mL 5-Pack Kit   Five single packs – Each contains one 5mL syringe and plunger, and four standard syringe tips
BGST-16   Syringe 16mm Spreader Tip  Ten single packs – Each contains three 16mm spreader tips
BGST-27    Syringe 27mm Spreader Tip  Ten single packs – Each contains three 27mm spreader tips
BGST-32  Syringe 32mm Spreader Tip  Ten single packs – Each contains three 32mm spreader tips
BGAT-45-10-SY Syringe 45mm Applicator Tip  Ten single packs – Each contains four 45mm syringe tips
BGST-40  Syringe 40mm Spreader Tip  Ten single packs – Each contains three 40mm spreader tips
BG3000-30  Syringe 30mL 3-pack Kit  Three single packs – Each contains one 30mL syringe and syringe plunger, and four standard syringe tips
BGST-60  Syringe 60mm Spreader Tip  Ten single packs – Each contains three 60mm spreader tips
BGAT-60-10-SY Syringe 60mm Applicator Tip  Ten single packs – Each contains four 60mm syringe tips
BGAT-90-10-SY Syringe 90mm Applicator Tip  Ten single packs – Each contains four 90mm syringe tips
Application Techniques in Cardiac Surgery

**Aortic Aneurysm**

- Clamp and depressurize vessel prior to BioGlue application
- Dry the target site to ensure optimal adherence of BioGlue to the target tissue
- Prime the applicator tip and apply a thin layer of BioGlue that extends 1cm in either direction of the suture line
- Wait 2 minutes for BioGlue to completely polymerize before pressurizing the anastomosis
- Complete the final anastomosis, and again apply a thin layer of BioGlue to prevent suture line bleeding
- Wait 2 minutes before re-establishing systemic blood flow

**Aortic Valve Replacement**

- Cover the coronary buttons with moist gauze prior to the application of BioGlue
- Prime the applicator tip and apply a thin layer of BioGlue to a dry, depressurized vessel
- Apply slight tension to the graft during BioGlue application to mimic the position of the graft once systemic flow has been re-established
- Do not allow excess BioGlue to pool around the base of the valve
- Always allow 2 minutes for the full polymerization of BioGlue before manipulating the anastomosis

**Type A Aortic Dissection**

**Distal Repair**

- Insert gauze into the true lumen to re-approximate layers of the aorta
- Obliterate false lumen by applying a 2mm thick and 2cm deep layer of BioGlue
- Use caution to avoid over-filling the false lumen
- After 2 minutes inspect lumen and carefully remove any excess BioGlue
- Repaired aorta may be further reinforced with felt strips if desired
- Once graft has been sewn in place, seal anastomosis with a thin layer of BioGlue to prevent suture line bleeding

**Proximal Repair**

- Cover aortic valve leaflets with moist gauze prior to BioGlue application
- Obliterate false lumen by applying a 2mm thick and 2cm deep layer of BioGlue
- Use caution to avoid overfilling the false lumen
- After 2 minutes inspect lumen and carefully remove any excess BioGlue
- Repaired aorta can be further reinforced with felt strips if preferred

**Key Application Techniques**

1. Dry the target site to ensure optimal adherence of BioGlue to target tissue
2. Clamp and depressurize vessels prior to applying BioGlue to targeted anastomoses
3. Prime the applicator tip to ensure proper mixing of the components
4. Switch from Cell Saver® to wall suction to prevent BioGlue from entering the pump system
5. Apply a thin layer of BioGlue directly onto the suture line to prevent suture line bleeding
6. Wait 2 minutes before pressurizing the anastomoses to allow for full BioGlue polymerization

Surgical technique is at the discretion of the surgeon. Variations in technique and practices will inevitably and appropriately occur when clinicians take into account the needs of the individual patients, available resources, and limitations unique to an institution or type of practice.