

Q PRODUCTS Overview



Myocardial Protection System

Patient-Specific Cardioplegia

QMP5[®] 2

PROTECTING LIFE WITH SCIENCE

Microplegia Initiative

- Superior myocardial protection ¹
- All blood cardioplegia
- Increased safety features ^{2,5}
- Reduced transfusion rates ^{3,4}
- Decreased myocardial edema ^{3,6}
- Reduced costs ^{4,5}

Pressure

Auto-regulated response to ischemia, maximizes distribution as resistance changes

Temperature

Responsive warm, cold, tepid

Additives

Targeted delivery for maximized benefit

Arrest

Adjustable and precise delivery to arrest and protect

Route

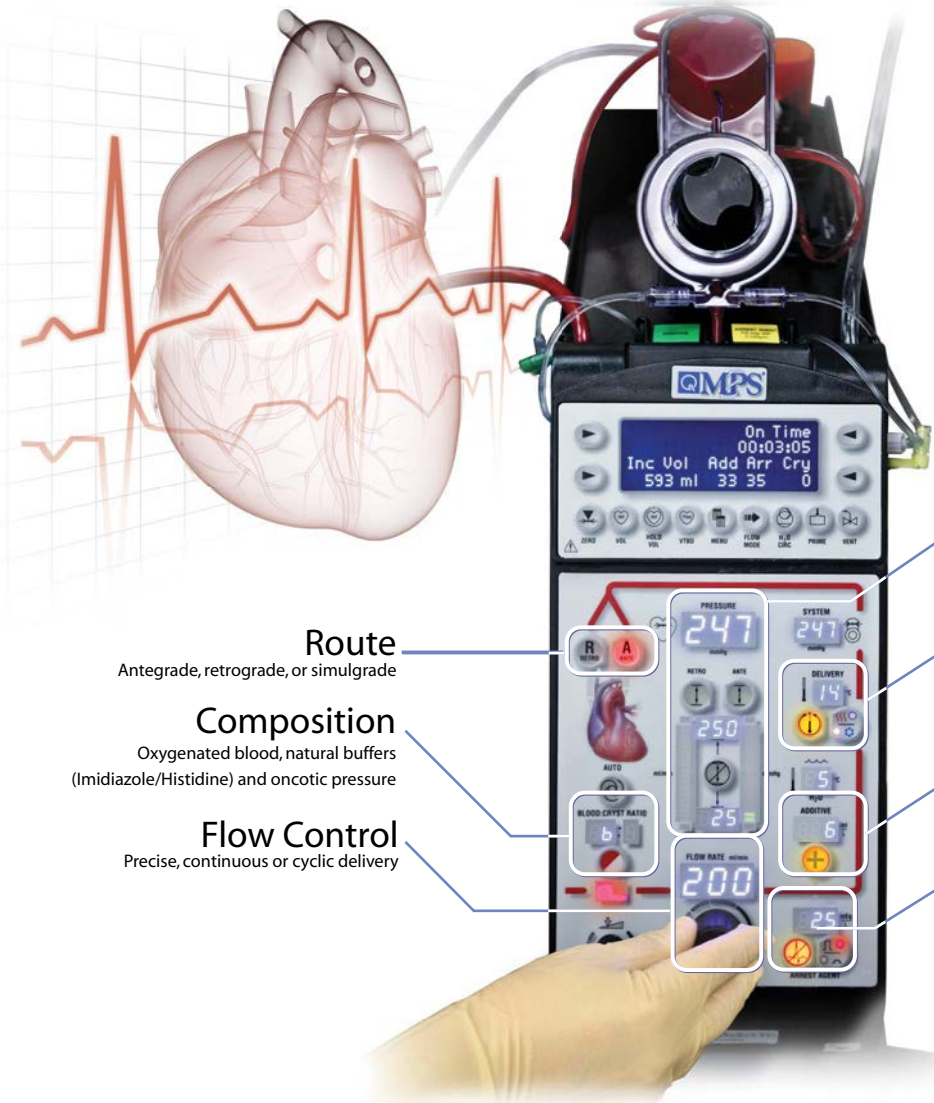
Antegrade, retrograde, or simulgrade

Composition

Oxygenated blood, natural buffers (Imidazole/Histidine) and oncotic pressure

Flow Control

Precise, continuous or cyclic delivery



Retract-O-Tape[®] | SaddleLoop[®]

Occluding & Retracting Vascular Loops



Retract-O-Tape[®]

SaddleLoop[®]

- Sealed silicone tubing provides air cushion
- Maintains round profile while offering necessary flexibility
- Better visibility
- Minimum intrusion
- Multiple sizes
- Sterile or non-sterile

PerfectCut® | CleanCut®

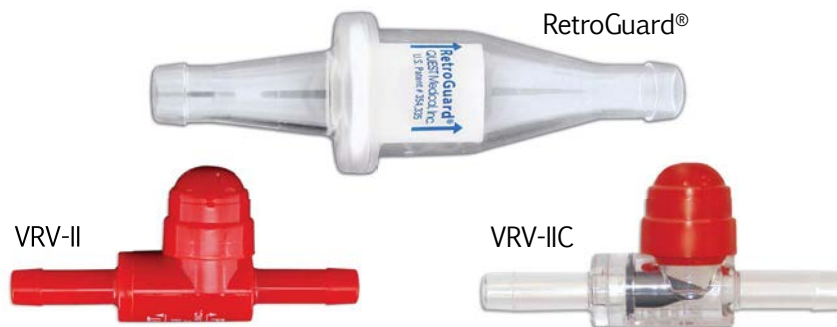
Aortic Punches & Lancet



- Uniform aortic openings for vessel grafts
- Rotating cutting action requires less force
- Self-aligning cutter mechanism
- Advanced “bullet-tip” design for straight insertions
- Multiple sizes
- Sterile or non-sterile

RetroGuard® | VRV-II

Perfusion Safety Valves



- Prevents retrograde arterial blood flow in the event of centrifugal pump failure
- Retrograde check valve
- Positive pressure relief
- Reverse flow protection
- Available in clear
- Sterile or non-sterile

Fluid Delivery | Anesthesia

Q2® Split Septum Connectors

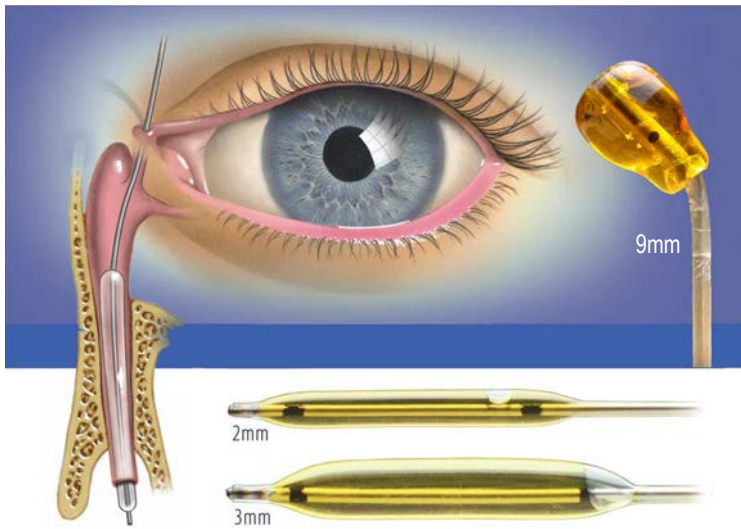
Needleless Luer Access Devices



Quest's extensive line of Q2® connectors, extension sets, and IV administration sets are designed to assist in meeting infection control guidelines.

- High flow rates
- Straight, direct fluid pathway
- Integrated check valves
- Minimal dead space
- Enable multiple activations
- Sterile, closed system

Lacrimal Duct Balloon Catheters

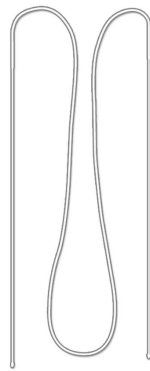


LacriCATH®

For the Treatment of Nasolacrimal Duct Obstruction

- Less invasive treatment for chronic tearing in children and adults⁷
- High success rates⁷
- Quicker recovery⁷
- No external scar⁷
- Available in multiple size DCP and DCR catheters

Large Diameter DCR Intubation Set



STENTube®

Developed by Bruce B. Becker, M.D.

- Enhanced stenting effect from large diameter segments⁸
- Silicone elongates with pull force for easier placement
- Greater than 90% success rate and resolution of epiphora⁸

References

- 1 Veena Guru, et al. Is Blood Superior to Crystalloid Cardioplegia? A Meta- Analysis of Randomized Trials. Circ AHA 2006; 114: I-331-I-338
- 2 Philippe Menasche, MD PhD. Blood Cardioplegia: Do We Still Need to Dilute? Ann Thorac Surg 1996; 62: 957-60
- 3 Bharat Datt MD, CCP, et al. Blood Only Cardioplegia with the Quest MPS. Canadian Perfusion Canadienne 2009; 19(1) April: 31-37
- 4 Milo C. Engoren, MD, et al. Effect of Blood Transfusion on Long-Term Survival After Cardiac Operation. Ann Thorac Surg 2002; 74:1180-6
- 5 Kevin Fleming, BS, CCP, et al. Perfusionist- Controlled Microplegia. The Department of Cardiovascular Perfusion, Toledo Hospital, Toledo, OH
- 6 Ulysses G. McCann II, MD, et al. Whole Blood Cardioplegia Reduces Myocardial Edema After Ischemic Injury and Cardiopulmonary Bypass. JECT 2006; 38:14-21
- 7 Outcomes of 9mm Balloon-Assisted Endoscopic Dacryocystorhinostomy: Retrospective Review of 97 Cases. Silbert DI, Matta NS. ORBIT 2010;29(1):25-8
- 8 Experience with Lacrimal Intubation during DCR utilizing the STENTube, Qasim Nasser, et al. ASOPRS, 10-2011

Full product inventory and catalogs available at questmedical.com



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