The size and fragility of pediatric patients make their surgeries undoubtedly among the most challenging to perform. Topping the list is pediatric heart surgery to repair congenital heart defects. Extended open-chest periods and staged surgeries add to the importance of knowing how much blood is flowing through re-directed pathways.

**To Measure Is to Know**
Since 1988, Transonic flow measurements have been used by Flow innovators such as Dr. Constantine Mavroudis at Children’s Hospital in Chicago to develop such cutting edge procedures as the Fontan and the Fenestrated Fontan for pediatric heart repair. Today, Transonic’s 4 & 6 mm Flowprobes are in use at top Children’s Hospitals to help guide the next wave of CHD repair innovations.

**Blood Flow - The Heart of the Matter**
Whatever the nature of the defect, the primary goal is to create or restore blood flow to its normal route through the heart and lungs into the systemic circulation so that the child can grow and thrive.

After surgery, waiting for symptomatic acknowledgment is subjective and time-consuming. Identifying single flows, or Qp/Qs flows simultaneously, provides the chance to immediately correct a problem before closing the patient.

Transonic Flow-QC® intraoperative flow measurement is such a technology.
Pediatric Heart Surgery and the 4 mm & 6 mm COnfidence Flowprobes® cont.

Miniature 4 & 6 mm Probes
New miniature 4mm and 6mm COnfidence Flowprobes offer unprecedented flow measurement capability during congenital heart defect (CHD) repairs in young children. The cables are specially oriented to eliminate torsional forces on the vessel.

The Flowprobe Size to Meet Your Application Needs
COnfidence Perivascular Flowprobes are customized for continuous cardiac output measurements and for highly accurate volume flow (not velocity) measurements in other great arteries and veins where a compact Flowprobe is needed.

Pediatric Liver Transplant
Because of Transonic’s active participation in the A2ALL Transplant study, pediatric liver transplant surgeons have also started using the miniature 4 mm and 6 mm COnfidence Flowprobes for portal venous flows during their pediatric liver transplant surgeries.

Designed with four transducers, the Flowprobe’s slim, ergonomic profile creates a minimal footprint in order to fit into tight anatomical sites. Its soft, pliable liner cushions and protects the vessel. Available in 17 sizes from 4 mm to 36 mm.

References


