The Gold Standard

Vascular Access Flow
Aragoncillo I et al, “Adding access blood flow surveillance reduces thrombosis and improves arteriovenous fistula patency: a randomized controlled trial,” J Vasc Access. 2017 Apr 20:0. (Transonic Reference # HD11190) “QA-based surveillance combining Doppler ultrasound and ultrasound dilution reduces the frequency of thrombosis, is cost effective, and improves thrombosis free and secondary patency in autologous AV.”


Recirculation

Cardiac Output

Comparison of Methodologies

Pediatric

Goldstein SL, Allsteadt A, “Ultrasound Dilution Evaluation of Pediatric Hemodialysis Vascular Access,” Kidney Int 2001; 59: 2357-2360. (Transonic Reference # HD11190) Ultrasound indicator dilution (UD) is a valid indicator of access flow in children. “When the uncorrected flow value reported by UD is corrected for patient body surface area, UD is predictive for the presence or absence of severe AV graft stenosis, regardless of patient size.”

Pressure Versus Flow