ULTRASOUND DILUTION TECHNOLOGY: THE GOLD STANDARD


Eloot, S, "Comparison of Different Methods to Assess Fistula Flow" Blood Purification, 2010; 30: 89-95. (HD7973V)


Zanen AL et al, "Flow measurements in dialysis shunts: lack of agreement between conventional Doppler, CVI-Q, and ultrasound dilution," Nephrol Dial Transplant 2001; 16(2) 395-399. (HD244A)


Numbers in parentheses ( ) are Transonic Reference #s.
Predictive Power of Access Flow Measurements


Hemodialysis Surveillance

Validations and Methodology of Vascular Access Flow Measurement


Garland JS et al., “Are hemodialysis access flow measurements by ultrasound dilution the standard of care for access surveillance?” Adv Ren Replace Ther 2002; 9(2): 91-8. (HD263A)


Predictive Power of Access Flow Measurements


The Gold Standard

Dialysis Adequacy

Zero Vascular Access Recirculation - A New Reality


Discrepancy between Prescribed and Delivered Pump Flow (Qb) in the Vascular Access


Catheter Recirculation and Delivered Flow


Cardiac Function

Methodology, Validations, Applications


Nikiforov UV et al., "Validation of a New Method to Measure Cardiac Output during Extracorporeal Detoxification," ASAIO J 1996; 42(5): M903-M905. (HD15V)


Rivera R et al., "Cardiac and Hemodynamic Response to Standard Bicarbonate Hemodialysis," 9th European Meeting on Cardionephrology, 2002; 345-348. (HD302A)


MacRae JM, "Vascular Access and Cardiac Disease: Is There a Relationship?" Curr Opin Nephrol Hypertens 2002; 11(3): 263-266. (HD268A)


Ondocin PT et al., "The Influence of Beta Blockade on Autonomic Neuropathy and Cardiovascular Function in Patients on Hemodialysis (HD),” J Am Soc of Nephrol Abstr 2001; A2084. (Transonic Reference # HD243A)