

Dr. David Shemesh is Director of the Vascular Access Unit in Shaare Zedek Medical Center, Jerusalem, Israel. The Center is the major provider of vascular access for dialysis units in Jerusalem and receives referrals from many other units throughout the country. Dr. Shemesh is a graduate of the Hebrew University Hadassa Medical School in Jerusalem, is a specialist vascular surgeon and holds a current Registered Vascular Technician certificate from the American Registry of Diagnostic Medical Sonographers. He lectures at workshops around the country for dialysis nurses and technicians. He has published and presented several papers regarding establishment of the vascular access center for construction and maintenance of arteriovenous access. Topics of interests are vascular access maturation, vascular access in the elderly patients, ultrasound in vascular access, stent grafts for vascular access intervention, anesthesia for vascular access.

Some representative publications:

1. Shemesh D, Zigelman C, Olsha O, Alberton J, Shapira J, and Abramowitz HB. Primary forearm arteriovenous fistula for hemodialysis access – an integrated approach to improve outcomes. *J Cardiovasc Surg*, 2003; 11:1, 35-41.
2. Shemesh D, Olsha O, Berelowitz D, Zaghaf I, Zigelman C and Abramowitz HB. An integrated approach to construction and maintenance of prosthetic arteriovenous access for hemodialysis. *Vascular*, 2004; 12,4: 243–257.
3. Shemesh D, Olsha O, Orkin D, Raveh D, Goldin I, Reichenstein Y, Zigelman C. Sympathectomy-like effects of brachial plexus block in arteriovenous access surgery. *Ultrasound Med Biol* 2006, 32:817-822.
4. Shemesh D, Goldin I, Berelowitz D, Zaghaf I, Zigelman C, Olsha O. Blood flow volume changes in the maturing arteriovenous access for hemodialysis. *Ultrasound Med Biol* 2007, 33:727-733.
5. Shemesh D, Goldin I, Zaghaf I, Berelowitz D, Raveh D, Olsha O. Angioplasty with stent-graft vs bare stent for recurrent cephalic arch stenosis in autogenous arteriovenous access for hemodialysis: a prospective randomized clinical trial. *J Vasc Surg* 2008, 48:1524-31.
6. Shemesh D, Goldin I, Zaghaf I, Berelowitz D, Verstandig A, Olsha O. Stent graft treatment for hemodialysis access aneurysms. *J Vasc Surg*. 2011 Oct;54(4):1088-94.
7. Shemesh D, Raikhinsein Y, Orkin D, Goldin I, Olsha O. Anesthesia for vascular access surgery. *J Vasc Access*. 2014;15 Suppl 7:S38-44.
8. Olsha O, Hijazi J, Goldin I, Shemesh D. Vascular Access in Hemodialysis Patients Older Than 80 Years. *J Vasc Surg* 2015;61:177-183.
9. Shemesh D, Goldin I, Hijazi J, Zaghaf I, Berelowitz D, Verstandig A, Olsha O. A prospective randomized study of heparin-bonded graft (Propaten) versus standard graft in prosthetic arteriovenous access. *J Vasc Surg* 2015;62:115-22.