Evaluation for Pelvic Venous Reflux

Nicos Labropoulos Professor of Surgery and Radiology Director, Vascular Laboratory

Division of Vascular Surgery Stony Brook Medicine Stony Brook, NY

nlabrop@yahoo.com



Reflux

Gonadal Internal iliac vein tributaries Pelvic floor and lower limbs veins

Associated with Iliac vein obstruction Post-thrombotic disease IVC hypoplasia Combinations

History and physical examination Signs and symptoms

Pelvic pain Dyspareunia Fullness Heaviness Flank pain Lower back pain Limb pain

Varicose veins Pelvis, buttock, limbs Edema Hematuria Skin damage Ulcer













Pelvic outlet View from inferior

Excellent imaging can be achieved even with a linear transducer of the pelvic veins and their connections















Obturator vein reflux Both obturator veins were dilated and had reflux exiting the pelvic floor.



Dilated LOV, trans- and peri-uterine veins











Conclusions - Pelvic Venous Disorders

Reflux, obstruction or both

Ovarian and pelvic veins Iliac veins – CIV, IIV, EIV Common femoral vein Connections with lower extremity veins

Ultrasound is the diagnostic test of choice

Other tests such as CTV and MRV may be useful when there is suboptimal imaging or limited experience with ultrasound