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		11/23/2024 9:14 AM 11/23/2024 2:10 PM 11/23/2024 2:40 PM	107 122 123	Presenter Presenter Presenter	Never Say Never: Endovascular Profundaplast Is Possible And Effective: Ho To Do It And Results The Ilio-Caval Evaluation In Chronic Venous Insufficiency The Role Of Duplex Ultrasound In The Evaluation Of The Post Thrombotic	
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Clinical Signs of Obstruction

Corona Phlebectatica

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Ankle Pigmentation



Dermal veins are a prognostic marker towards the progression of chronic venous disease



Clinical Signs of Obstruction

Abdominal, pelvic varices, ilio-caval obstruction





Indications for Iliocaval Duplex Exam

- Inconsistent pain and disproportional swelling
- Signs and symptoms do not coincide with the lower extremity duplex findings
- Asymmetry of lower extremities
- · CEAP 3-6 patients
- Chronic pelvic pain

- IVC filter placement
- High risk for unknown DVT
- Previous known DVT
- Venous claudication
- Failed ulcer healing after superficial vein treatment
- Recurrent ulceration

Iliocaval Duplex Ultrasound



Optimize Patient Prep & Positioning

- Morning schedule, 8am-12pm, NPO, hydrated with (Gas-X) 2 tabs the night before and 2 tabs the morning of the exam to minimize bowel gas
- · Empty urinary bladder prior to start of exam
- Supine position with head elevation ~10-15°, utilizing the anterior approach
- · L/R decubitus and standing positions as needed
- Under garments must be removed, gown and privacy drape sheet must be provided



Iliocaval Outflow Tract

Utilizing the **orange chroma tint** enhances the visual perception of the image leveraging our ability discern higher resolution in the spectrum of colors as opposed to conventional shades of black and white



Iliocaval Outflow Tract

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Asymmetry Bilateral Common Femoral Veins

62 YO female with bilateral edema and ankle pigmentation









Criteria for the Iliac Veins

- 50% reduction in vein diameter, CIV < 8 mm, EIV < 7 mm, CFV< 6 mm (measured with calipers)
- Peak vein velocity ratio > 2.5
- Define characteristics of obstruction: Acute, fibrosis, vein compression, wall thickening, occlusion and recanalization
- Collateral veins
- Post stenotic dilation
- Other causes of cavo-Iliac compression include: lymphadenopathy, tumors, cysts, hematoma, aneurysm, distended bladder or penile protheses

Journal of Vascular Surgery: Venous and Lymphatic E Volume 6, Issue 6, November 2018 Jan Sloves FVT, Jose Ignacio Almeida MD rise²⁰ ris for defining significant central vein stenos fuplex ultrasound



Why and What to Look For





Post Thrombotic Case

- 51 YO male with a PMHx intravenous drug use, family HX of DVT and factor V Leiden
- 2011 sustains a fall involving his left lower extremity due to motor cycle accident, develops DVT and PTS
- Chief complaint: left thigh, calf tightness, and pain while walking 1-2 blocks, hyperpigmentation, leg, ankle, foot, ABI 1.1
- Compliant with anticoagulation & 30-40 mm Hg stockings with inadequate relief of symptoms







Left Common Femoral Vein

















Conclusion Iliocaval Duplex Ultrasound

- Provides real-time imaging of patency and flow
- Identifies the location and severity of obstructions
- Supports pre-procedural planning on outflow characteristics
- Facilitates the use of IVUS without requiring additional imaging modalities

