Venous Clinical Examination and Hemodynamics:

Identifying Reflux Pathways With Duplex Ultrasound Mapping

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Disclosures

- Speaker Medtronic
- No off label discussion

Categorizing “pathways of reflux”
Facilitates clinical decision making and communication

Great Saphenous Vein Reflux
“sub-types”

- Source
  - Saphenofemoral junction

More than one pathway may occur in a given limb

Great Saphenous Vein Reflux
“sub-types”

- Extent
  - Thigh
  - Calf
  - Both

- Segmental
  - Skip segments of the GSV

Pathway may correlate with disease severity

GSV Reflux
“sub-types”

- Source
  - Below the junction
  - Perforating vein
  - Tributary
    - External pudendal vein

Anterior Accessory Saphenous Reflux

- Source of varicose veins
- Can cause GSV reflux

SSV reflux
Thigh extension of SSV (Giacomini Vein) reflux

Non-saphenous veins
- Up to 30% of patients
  - 80% female

Non-saphenous reflux patterns
- Up to 30% of patients
- Patterns include:
  - Pelvic origin extremity varicose veins

Conclusions
- Categorizing reflux in patterns
  - Facilitates communication and treatment planning
  - Has prognostic implications
    - Disease severity
    - Outcome of treatment
  - Several patterns of reflux can exist in a given limb
    - Incomplete appreciation of multiple coexistent pathways
      - May explain many "recurrences"

Thank you for your attention