AVOIDING DISASTER: IDENTIFICATION AND MANAGEMENT OF CONNECTIONS TO DEEP VEINS IN SUPERFICIAL VENOUS MALFORMATIONS

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- Conduit for embolic material to enter the deep system
  - Acute
    - Pulmonary vasospasm (etoh)
    - PE
  - Chronic
    - C-TEPH
  - Perforator system

SUPERFICIAL TO DEEP COMMUNICATION

14 BOY W PAINFUL VM ETHANOL

ON TABLE DECOMPENSATION

DEEP VEIN COMMUNICATION

PERFORATOR VEINS

- Familiar from SVI
  - Superficial → deep
- Import
  - Size and location
DISCONNECTION

LIKELY UNIMPORTANT

LIKELY IMPORTANT

DEFINITELY IMPORTANT

STANDING US STUDY

PREPROCEDURE
DIAGNOSIS
Supine
Postural
Standing US exam
PROCEDURAL DIAGNOSIS

PERFORATOR BASED VM

- Stigmata at birth
- Typical diagnosis
  - CT if child
  - Severe SVI if adult
- Does not fit into existing VM classification systems
  - Low flow
  - Venous

PERFORATOR BASED VVM

- Diffuse perforator abnormality
- Functionally, the perforators are the nidus of these malformations
  - Target superficial component for symptom relief
  - Target perforators for cure

PERFORATOR OCCLUSION
Disconnect embolic target from complication conduit

Elective

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