

# Venous & Lymphatic Medicine Certification Exam

## Content Summary

(Percentages are approximations and may vary slightly on the exam)

- 1) BASIC SCIENCE (8%)
  - a) Anatomy & Embryology
    - i) Histology
    - ii) Macroscopic Anatomy
    - iii) Embryology
  - b) Physiology
    - i) Function
    - ii) Normal venous hemodynamics
    - iii) Venous pumps
    - iv) Coagulation
    - v) Lymphatic system
  
- 2) VENOUS DISEASES AND SYNDROMES (20%)
  - a) Chronic Venous Disorder
  - b) Chronic Venous Insufficiency
  - c) Recurrence
  - d) Venous Obstruction
  - e) Pelvic Venous Congestion
  - f) Thromboembolism (SVT/DVT/Other)
  - g) Venous/vascular & Miscellaneous syndromes
  - h) Lymphedema
  - i) Venous Tumors
  
- 3) DIAGNOSTIC TOOLS AND SCREENING (10%)
  - a) Continuous Wave Doppler
  - b) Plethysmography
  - c) Ankle-brachial index
  - d) Peripheral arterial evaluation (other)
  - e) Venous thromboembolism screening
  - f) CEAP Classification
  - g) VCSS
  - h) QOL instrument
  
- 4) DUPLEX ULTRASOUND AND OTHER IMAGING MODALITIES (25%)
  - a) Duplex Ultrasound
    - i) Instrumentation
    - ii) Ultrasound physics
    - iii) Ultrasound safety
    - iv) Ultrasound interpretation
    - v) Limitations
    - vi) Quality Assurance
  - b) Other Imaging Modalities
    - i) MR
    - ii) CT
    - iii) Venography
    - iv) Transillumination
    - v) Lymphoscintigraphy
    - vi) Other

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- 5) TREATMENT/THERAPY (35%)
- a) Pharmacologic agents and wound care
  - b) Compression therapy
  - c) Anesthesia techniques
  - d) Sclerotherapy
  - e) Duplex-guided endovenous chemical ablation
  - f) Ambulatory phlebectomy
  - g) Endovenous thermal ablation
  - h) Cutaneous laser surgery
  - i) Surgery (other than Ambulatory phlebectomy)
  - j) Management of recurrent varicose veins
  - k) Management of pelvic venous insufficiency
  - l) Principles in managing venous/lymphatic malformations and anomalies
  - m) Deep venous reflux and/or obstruction
  - n) Prophylaxis of venous thromboembolism
  - o) Management of SVT/DVT/Other
  - p) Complications of Venous Procedures
  - q) Management of chronic venous insufficiency
- 6) PROFESSIONAL STANDARDS (2%)
- a) Ethics Training
  - b) Vascular Laboratory development
  - c) Documentation and Billing for venous disease
  - d) Informed consent
  - e) FDA, Off-label use
  - f) Quality Assurance, Quality Improvement
  - g) Research design and analysis
  - h) Referral to other specialists

Approx. 200 Exam Questions

SECTION	TOPIC	PERCENT	# of Items
1	Basic Science	8%	16
2	Venous Diseases and Syndromes	20%	40
3	Diagnostic Tools and Screening	10%	20
4	Duplex Ultrasound and Other Imaging Modalities	25%	50
5	Treatment/Therapy	35%	70
6	Professional Standards	2%	4

Number of items and percentages listed above are approximations and may vary slightly on the actual exam.