ABVLM Exam Content Outline Effective 2025

Code	Label	% of Items
1	**Basic science**	**21%**
1.1	**Anatomy (Venous, Arterial, and Lymphatic Systems)**	
1.1.1	Structure of venous wall and endothelium	
1.1.2	Venous valves	
1.1.3	Anatomical nomenclature	
1.1.4	Lower extremity venous and adjacent nerve anatomy	
1.1.5	Pelvic venous anatomy	
1.1.6	Abdominal venous anatomy	
1.1.7	Thoracic venous anatomy	
1.1.8	Upper extremity venous anatomy	
1.1.9	Cerebral and jugular venous anatomy	
1.1.10	Pelvic and lower extremity arterial anatomy	
1.1.11	Lymphatic anatomy	
1.2	**Embryology**	
1.2.1	Venous embryology of the thorax, abdomen, pelvis and lower extremities	
1.2.2	Variant venous anatomy of the thorax, abdomen, pelvis, and lower extremities	
1.2.3	Lymphatic embryology of the thorax, abdomen, pelvis and lower extremities	
1.2.4	Congenital arteriovenous, venous and other vascular anomalies based on ISSVA classifications	
1.3	**Genetics**	
1.3.1	Venous disease	
1.3.2	Lymphatic disease	
1.3.3	Congenital arteriovenous, venous, and other vascular malformations	
1.4	**Venous physiology and hemodynamics**	
1.4.1	Flow through collapsible tubes and the reservoir function of the venous system	
1.4.2	Venous valves and their function	
1.4.3	Muscular pump function	
1.4.4	Venous pressures—normal and abnormal	
1.5	**Venous pathophysiology**	
1.5.1	Primary lower extremity superficial and deep venous insufficiency	
1.5.2	Secondary lower extremity superficial and deep venous insufficiency	
1.5.3	Chronic venous insufficiency (C3-C6 disease)	
1.5.4	Superficial and deep venous obstruction etiologies	
1.5.5	Pathophysiology of venous ulceration	
1.5.6	Pathophysiology of swelling	

Code	Label	% of Items
1.5.7	Pathophysiology of pelvic venous disorders	
1.5.8	Lymphatic physiology and pathophysiology	
1.6	**Venous histology and histopathology**	
1.7	**Wounds and wound healing**	
1.7.1	Acute wounds	
1.7.2	Chronic wounds	
1.8	**Coagulation and thrombosis**	
1.8.1	Normal function of the coagulation system	
1.8.2	Blood/vessel wall interactions	
1.8.3	Hypercoagulable conditions	
1.8.4	Inflammation and thrombosis	
1.8.5	Deep and superficial Venous thromboembolism, natural history, and sequelae	
1.9	**Compression therapy**	
1.9.1	Mechanism of action of compression therapy devices	
1.9.2	Dynamic versus static compression devices	
1.9.3	Compression dosage/strength and duration	
1.10	**Pharmacology**	
1.10.1	General pharmacological principles	
1.10.2	Sclerosants	
1.10.3	Sclerosant microfoams	
1.10.4	Cyanoacrylates	
1.10.5	Anticoagulant and antiplatelet drugs	
1.10.6	Thrombolytic and antithrombotic agents	
1.10.7	Anesthetic agents	
1.10.8	Veno-active (phlebotonic) agents	
1.11	**Physics**	
1.11.1	Ultrasound	
1.11.2	IVUS	
1.11.3	Cutaneous laser and Intense pulsed light	
1.11.4	Endovenous laser	
1.11.5	Radiofrequency	
1.12	**Infection control**	
1.12.1	Clean technique	
1.12.2	Sterile technique	
1.12.3	Cleaning and disinfection of equipment and surfaces	
2	**Diagnostic evaluation**	**32%**
2.1	**History**	
2.2	**Physical examination**	
2.3	**Non-invasive arterial testing**	
2.3.1	Ankle Brachial Index	
2.3.2	Arterial pulse volume recording	
2.4	**Venous and Lymphatic imaging**	
2.4.1	Venous ultrasound- performance and interpretation	
2.4.2	Intravascular ultrasound (IVUS)- performance and interpretation	

Code	Label	% of Items
2.4.3	MRI and MR venography- interpretations	
2.4.4	CT and CT venography- interpretation	
2.4.5	Conventional venography- performance and interpretation	
2.4.6	Lymphatic imaging and interpretation	
2.5**	**Dynamic Venous function tests- interpretation**	
2.5.1	Air plethysmography	
2.5.2	Photoplethysmography	
2.5.3	Ambulatory venous pressure	
2.6	**Laboratory test indications and interpretations**	
2.6.1	Basic coagulation assessment	
2.6.2	Hypercoagulability evaluation	
2.6.3	Assessment of activated coagulation using D-dimer	
2.6.4	Skin biopsy - indications	
2.7	**Venous thromboembolic disease**	
2.7.1	Risk assessment using tools (i.e., Caprini and wells)	
2.7.2	Diagnostic algorithms	
2.8	**Interpret classification systems and assessment tools**	
2.8.1	CEAP (chronic venous disorders)	
2.8.2	Hamburg (vascular malformations)	
2.8.3	International Society for the Study of Vascular Anomalies (ISSVA, for vascular malformations)	
2.8.4	Venous Clinical Severity Scale (VCSS, for chronic venous disorders)	
2.8.5	Villalta (for post thrombotic venous disease)	
2.8.6	SVP (Symptoms, varices, pathophysiology, for pelvic venous disorders)	
2.8.7	Rutherford classification for acute and chronic limb ischemia	
2.8.8	Quality of life (QOL) assessments	
3	**Knowledge and skills integral to the practice of venous and lymphatic medicine**	**28%**
3.1	**Conservative therapy**	
3.1.1	Principles and practice	
3.1.2	Patient education and resources	
3.2	**Compression therapy**	
3.2.1	Graduated medical compression stockings	
3.2.2	Shortstretch bandages	
3.2.3	Bandaging techniques	
3.2.4	Multi-layered compression	
3.2.5	Adjustable compression wraps	
3.2.6	Compression pumps	
3.2.7	Other compression devices	
3.3	**Pharmacological for venous disorders**	

Code	Label	% of Items
3.4	**Wound care**	
3.4.1	Compression	
3.4.2	Dressings	
3.4.3	Topical	
3.4.4	Pharmacologic	
3.4.5	Surgical	
3.5	**Endovenous saphenous vein ablation**	
3.5.1	Thermal ablation	
3.5.2	Non-thermal ablation	
3.6	**Surgery for venous incompetence**	
3.6.1	Ligation and division	
3.6.2	Ligation and stripping	
3.6.3	Surgical treatment of perforating veins	
3.6.4	Deep venous surgery	
3.6.5	Saphenous vein preservation strategies for venous reflux	
3.7	**Microphlebectomy**	
3.8	**Sclerotherapy**	
3.8.1	Liquid	
3.8.2	Foam	
3.8.3	Visual	
3.8.4	Ultrasound-guided	
3.8.5	Transillumination-guided	
3.8.6	Fluoroscopy-guided	
3.9	**Endovascular embolization**	
3.9.1	Mechanical	
3.9.2	Chemical	
3.10	**Pelvic venous disorders**	
3.10.1	Embolization	
3.10.2	Iliac venous stenting	
3.10.3	Venous bypass or transposition	
3.10.4	Venous ligation (open and laparoscopic)	
3.10.5	Autotransplantation	
3.10.6	Pharmacological	
3.11	**Venous extrinsic compression syndromes**	
3.11.1	Iliac vein compression	
3.11.2	Left renal vein compression	
3.11.3	Popliteal Vein Entrapment	
3.11.4	Subclavian vein compression (Paget-Schroetter)	
3.12	**Venous thromboembolism (VTE) treatments**	
3.12.1	VTE prophylaxis	
3.12.2	Anticoagulation	
3.12.3	Superficial venous thrombosis	
3.12.4	DVT and pulmonary embolism	
3.12.5	Vena cava filter placement and retrieval	
3.13	**Post-thrombotic deep venous obstruction treatments**	
3.13.1	Endovenous venoplasty and stenting	

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3.13.2	Surgical bypass(Palma-Dale, May-Husni; prosthetic)	
3.13.3	Endophlebectomy for restoration of venous inflow	
3.14	**Superior vena cava (SVC) syndrome and upper extremity venous obstruction treatments**	
3.14.1	"Effort" thrombosis (Paget-Schroetter Syndrome)	
3.14.2	Superior vena cava syndrome	
3.15	**Venous aneurysm management**	
3.15.1	Popliteal	
3.15.2	Iliac	
3.15.3	Inferior vena cava	
3.15.4	Saphenous	
3.16	**Energy-based treatments for venous disorders**	
3.16.1	Cutaneous laser and light-based treatment	
3.16.2	Thermocoagulation and ohmic thermolysis	
3.17	**Lymphedema therapies**	
3.17.1	Conservative	
3.17.2	Complete decongestive physiotherapy	
3.17.3	Dynamic compression therapy (pneumatic and non-pneumatic pumps)	
3.17.4	Compression bandaging/adjustable wraps	
3.17.5	Surgical treatment	
3.18	**Treatment of vascular anomalies**	
3.18.1	Transcutaneous laser	
3.18.2	Percutaneous sclerotherapy	
3.18.3	Image guided embolization	
3.18.4	Surgery	
3.19	**Anesthesia**	
3.19.1	Sedation and analgesia	
3.19.2	Topical anesthesia	
3.19.3	Local anesthesia	
3.19.4	Tumescent anesthesia	
3.20	**Treatment of medical emergencies**	
3.20.1	Basic life support/advanced cardiac life support	
3.20.2	Management of anaphylaxis	
3.20.3	Management of air embolism	
3.21	**Management of procedural complications**	
3.21.1	Superficial venous procedures	
3.21.2	Deep venous procedures	
4	**Clinical management**	**19%**
4.1	**Superficial venous incompetence**	
4.1.1	Telangiectasia	
4.1.2	Reticular veins	
4.1.3	Varicose veins	
4.1.4	Recurrent varicose veins	

Code	Label	% of Items
4.2	**Perforator incompetence**	
4.3	**Deep venous incompetence**	
4.4	**Chronic venous insufficiency**	
4.4.1	Edema	
4.4.2	Corona phlebectatica	
4.4.3	Venous skin injury	
4.4.4	Venous ulceration	
4.4.5	Non venous causes of ulceration	
4.5	**Pelvic Venous disorders**	
4.5.1	Chronic pelvic pain	
4.5.2	Symptomatic left renal vein compression	
4.5.3	Vulvar varices	
4.5.4	Varicocele	
4.5.5	Venous claudication	
4.5.6	Pelvic origin extra-pelvic and sciatic varices	
4.6	**Venous thromboembolism**	
4.6.1	Superficial thrombophlebitis	
4.6.2	Deep vein thrombosis	
4.6.3	Post-thrombotic syndrome	
4.6.4	Pulmonary embolism	
4.6.5	Paradoxical embolism	
4.6.6	Post-pulmonary embolism syndrome	
4.6.7	Chronic thromboembolic pulmonary hypertension	
4.6.8	Upper extremity venous thrombosis	
4.7	**Venous obstruction and compression syndromes**	
4.7.1	Popliteal vein	
4.7.2	Iliac vein	
4.7.3	Left renal vein compression	
4.7.4	Inferior vena cava	
4.7.5	Superior vena cava	
4.7.6	Axillo-subclavian	
4.8	**Vascular malformations**	
4.8.1	Capillary malformations	
4.8.2	Venous malformations	
4.8.3	Lymphatic malformations	
4.8.4	Arteriovenous malformations	
4.8.5	Combined and complex malformations/syndromes	
4.8.6	Venous aneurysms	
4.9	**Venous tumors**	
4.10	**Recognition of life and limb threatening syndromes**	
4.10.1	Compartment syndromes	
4.10.2	Acute limb ischemia	
4.10.3	Infection	
4.10.4	Phlegmasia	
4.11	**Management of treatment-related complications**	

Code	Label	% of Items
4.11.1	Neurological complications	
4.11.2	Sclerotherapy complications	
4.11.3	Saphenous ablation complications	
4.11.4	Phlebectomy complications	
4.11.5	Cutaneous laser complications	
4.11.6	Compression complications	
4.11.7	Pharmacologic treatment complications	
4.11.8	Stent complications	
4.11.9	IVC filter complications	
4.11.10	Anesthetic toxicity	
TOTAL		**100%**