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Descrizione fisica	1 online resource (343 p.)
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Nota di contenuto	Contents; Contributors; 1. Atherosclerosis: Basic Principles and Medical Management; 1. Introduction; 2. Pathogenesis of Atherosclerosis; 2.1 Normal arterial anatomy; 2.2 Etiology and progression of disease; 2.2.1 Intimal thickening; 2.2.2 Fatty streaks; 2.2.3 Fibrofatty lesions/gelatinous plaques; 2.2.4 Fibrous plaques; 2.2.5 Complicated lesions; 2.3 Classification of vascular lesions; 2.4 Atherosclerosis at the cellular level; 2.4.1 Endothelium; 2.4.2 Smooth muscle cells; 2.4.3 Macrophages; 3. Theories of Atherogenesis; 3.1 Response to injury hypothesis; 3.2 Lipid hypothesis 3.3 Thrombogenic hypothesis3.4 Mesenchymal hypothesis; 3.5 Monoclonal hypothesis; 4. Lesion Arrest and Regression -Plaque Modification; 5. Mechanism of Injury; 5.1 Tobacco; 5.2 Hypertension; 5.3 Shear forces; 5.4 Hyperlipidemia; 5.5 Diabetes; 5.6 Infection; 6. Atherosclerosis Basic Principles and Medical Management; 6.1 Risk factors for atherosclerotic disease and modification strategies; 6.2 Smoking; 6.3 Diabetes mellitus; 6.4 Hypertension; 6.5 Dyslipidemia; 6.6 Metabolic syndrome; 6.7 Emerging novel risk factors; 6.8 Surveillance and secondary prevention; 7. Conclusions; References 2. Physical Examination and Noninvasive Diagnosis of the Patient with

Vascular Disease

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4. Arterial - Legs; 4.1 History; 4.2 Physical examination; 4.3 Vascular laboratory;
5. Arterial -Arms; 5.1 History and physical examination; 5.2 Noninvasive laboratory;
6. Venous 6.1 History 6.2 Physical examination; 6.3 Vascular laboratory;
7. Appendix - Noninvasive Vascular Laboratory; 7.1 CW Doppler; 7.2 Doppler signal recording; 7.3 Pulse volume record; 7.4 Lower extremity exercise test; 7.5 Duplex ultrasound scan;
3. Surgical Anatomy of the Arterial and Venous Systems; 1. Introduction; 2. Neck; 2.1 Arterial; 2.2 Venous; 3. Arm; 3.1 Arterial; 3.2 Venous; 4. Thorax; 4.1 Arterial; 4.2 Venous; 5. Abdomen; 5.1 Arterial; 5.2 Venous; 6. Lower Extremity; 6.1 Arterial; 6.2 Venous;
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  - 4.2 Lower limb peripheral arterial disease

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## Sommario/riassunto

Treatment of vascular disease has progressed and evolved rather quickly in the last 5-10 years with current treatments improving and changing rapidly. This handbook serves to educate medical students and surgery residents regarding the most up-to-date treatments for arterial, venous and lymphatic disease. Endovascular management of these disorders has emerged rapidly and the most current techniques will be covered in detail.

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