

Contents

Foreword <i>P.-J. Touboul</i>	vii
Preface <i>S. Glagov</i>	ix
Principal contributors	xi
1 Natural history of atherosclerosis <i>H.C. Starry</i>	1
2 Watching the risks in atherosclerosis: Problems arising with regard to early lesion detection, estimation of plaque progression and evaluation of plaque stability <i>S. Glagov, Y. Sakaguchi, H.S. Bassiouny, D.P. Giddens and C.K. Zarins</i>	19
3 Prevalence of and risk factors for intima-media thickening: A literature review <i>C. Bonithon-Kopp</i>	27
4 Noninvasive ultrasound methods for the measurement of arterial wall thickness <i>X. Girerd, P. Boutouyrie, B. Pannier, J.-J. Mourad, M. Safar and S. Laurent</i>	45
5 Sources of arterial wall thickness measurement variability <i>J.R. Crouse, III</i>	59
6 Mechanical factors and the biology of the blood vessel <i>A. Tedgui and M. Bardy</i>	69
7 Work in progress: Four-dimensional ultrasound for investigation of arterial wall and carotid plaque motion <i>M. Hennerici and S. Mearns</i>	75
8 Compliance and arterial wall thickening <i>S. Laurent, X. Girerd, P. Lacolley, P. Boutouyrie and M. Safar</i>	81
9 Arterial wall thickness, carotid atherosclerosis and the risk of myocardial infarction and cerebrovascular stroke <i>J.T. Salonen and R. Salonen</i>	97

CONTENTS

10	Associations of arterial wall thickening and coronary heart disease <i>J.R. Crouse, III</i>	105
11	Carotid intima-media thickness and atherosclerosis in the lower extremities <i>M.L. Bots and D.E. Grobbee</i>	117
12	Arterial wall thickening and left ventricular hypertrophy in hypertension <i>M.J. Roman and R.B. Devereux</i>	127
13	Arterial wall thickening and lipids: Effects of hypolipidemic drugs on the arterial wall <i>E. Bruckert</i>	139
14	Progression of arterial wall thickness and its correlation with blood lipids <i>F.M. Yatsu, J.C. Grotta and D. Vital</i>	147
15	Influence of drug treatment on arterial wall thickness <i>H.P. Adams, Jr. and P.H. Davis</i>	155
	Index	163