

Contents

Foreword	7
1. Physiology of coronary microcirculation	9
<i>Sofia Jacinto, Luís Morais</i>	
2. Pathophysiology of coronary microvascular dysfunction	17
<i>Francisco Albuquerque, Tiago Mendonça</i>	
3. Evaluation of coronary microcirculation	25
3.1. Echocardiography	27
<i>Bárbara Teixeira, Ana Galrinho</i>	
3.2. Cardiovascular Magnetic Resonance	35
<i>Vera Ferreira, Boban Thomas, Sílvia Aguiar</i>	
3.3. Positron emission tomography	43
<i>João Borges-Rosa, Maria João Vidigal</i>	
3.4. Invasive evaluation	51
<i>André Grazina, António Fiarresga</i>	

4. Coronary microcirculation in the clinical context	59
4.1. Ischaemia with non-obstructive coronary arteries	61
<i>Alexandra Castelo, Ruben Ramos</i>	
4.2. Coronary microvascular dysfunction in hypertrophic cardiomyopathy	67
<i>Pedro Brás, Sílvia Aguiar</i>	
4.3. Coronary microvascular dysfunction in dilated cardiomyopathy	77
<i>Rita Teixeira, Rita Moreira</i>	
4.4. Coronary microvascular dysfunction in cardio-oncology	83
<i>Isabel Cardoso, Tânia Mano</i>	
4.5. Coronary microvascular adaptation in athlete's heart	89
<i>José Viegas, António Gonçalves</i>	
5. Treatment of coronary microvascular disease	95
<i>Ana Raquel Santos, André Ferreira, Ana Teresa Timóteo</i>	