

Contents

Preface	vii
Contributors	xi

Section 1 Pathophysiology

1 Molecular Mechanisms of Diastolic Dysfunction.....	3
<i>Gilles W. De Keulenaer and Dirk L. Brutsaert</i>	
2 Pathophysiologic Aspects of Myocardial Relaxation and End-Diastolic Stiffness of Cardiac Ventricles	21
<i>Thierry C. Gillebert and Adelino F. Leite-Moreira</i>	
3 Ventricular Interaction via the Septum and Pericardium.....	41
<i>Israel Belenkie, Eldon R. Smith, and John V. Tyberg</i>	
4 Role of the Left Atrium	53
<i>Sergio Macciò and Paolo Marino</i>	
5 Role of Neurohormones and Peripheral Vasculature	71
<i>Gretchen L. Wells and William C. Little</i>	
6 Filling Velocities as Markers of Diastolic Function	81
<i>Otto A. Smiseth</i>	
7 Myocardial Velocities as Markers of Diastolic Function.....	99
<i>Jarosław D. Kasprzak and Karina A. Wierzbowska-Drabik</i>	
8 Diastolic Versus Systolic Heart Failure	119
<i>Hidekatsu Fukuta and William C. Little</i>	

Section 2 Diagnosis of Diastolic Heart Failure

9 Invasive Evaluation of Diastolic Left Ventricular Dysfunction	137
<i>Loek van Heerebeek and Walter J. Paulus</i>	

10	Echocardiographic Assessment of Diastolic Function and Diagnosis of Diastolic Heart Failure	149
	<i>Grace Lin and Jae K. Oh</i>	
11	Magnetic Resonance Imaging.	163
	<i>Frank E. Rademakers and Jan Bogaert</i>	
12	Natriuretic Peptides in the Diagnosis of Diastolic Heart Failure	175
	<i>Michał Tendera and Wojciech Wojakowski</i>	
13	Noninvasive Estimation of Left Ventricular Filling Pressures	187
	<i>Sherif F. Nagueh</i>	
Section 3 Epidemiology, Prognosis, and Treatment		
14	Epidemiology of Diastolic Heart Failure	205
	<i>Michał Tendera and Wojciech Wojakowski</i>	
15	Prognosis in Diastolic Heart Failure.	213
	<i>Piotr Ponikowski, Ewa A. Jankowska, and Waldemar Banasiak</i>	
16	Treatment of Diastolic Heart Failure	223
	<i>Michał Tendera and Ewa Gaszewska-Żurek</i>	
Section 4 Specific Disease-Related Problems in Diastolic Heart Failure		
17	Coronary Artery Disease and Diastolic Left Ventricular Dysfunction	243
	<i>Jean G.F. Bronzwaer and Walter J. Paulus</i>	
18	Hypertension and Diastolic Function.	263
	<i>Raymond Gaillet and Otto M. Hess</i>	
19	Diastolic Disturbances in Diabetes Mellitus	271
	<i>Thomas H. Marwick</i>	
20	Hypertrophic Cardiomyopathy	285
	<i>Saidi A. Mohiddin and William J. McKenna</i>	
21	Constrictive Pericarditis and Restrictive Cardiomyopathy.	311
	<i>Farouk Mookadam and Jae K. Oh</i>	
22	Summary	329
	<i>Otto A. Smiseth and Michał Tendera</i>	
	Index	339