Contents

Preface V

List of Contributors VII

1. The pathologic base of supraventricular arrhythmias
Maurice Lev and Saroja Bharati 1

2. The pathologic aspects of ventricular tachycardia
Saroja Bharati and Maurice Lev 15

3. Cardiac arrhythmias: structural correlates
John J. Fenoglio and Philip C. Ursell 29

4. The pathophysiology of ventricular arrhythmias
Alden H. Harken, Anirban Banerjee and John Sun 41

5. Abnormal impulse formation in the atrioventricular node. From clinical electrocardiogram to membrane ionic currents
Yoshio Watanabe, Yoshizumi Habuchi, Takeshi Noda and Masao Nishimura 49

6. Reentrant tachycardia within normal conduction system: atrioventricular nodal tachycardia, junctional reciprocating tachycardia, and His-Purkinje system tachycardia
Delon Wu 63

7. The mechanism and management of atrial flutter
Albert L. Waldo, Brian Olshansky and Richard W. Henthorn 79

8. Current medical management of supraventricular arrhythmias
Dennis M. Krikler 87

9. A community-wide experience with amiodarone for the treatment of refractory arrhythmias in 211 patients over 5 years
Frank I. Marcus, Kathleen Gear and Richele Schaffer 103

10. Drug treatment strategy for cardiac arrhythmias
Philippe Coumel 115

11. Twenty years of programmed electrical stimulation of the heart. An overview on continued progress in the management of cardiac arrhythmias
Pedro Brugada 127

12. Intracardiac electrophysiologic studies in sustained ventricular tachycardia
John E. Miller and Mark E. Josephson 135

13. Prognostic significance of programmed ventricular stimulation for identification of patients at risk of ventricular tachyarrhythmias
Günter Breithardt, Martin Broggrefe, Andrea Podczeck and Klaus Haerten 153

14. Sudden arrhythmic death: prediction and prevention
Leonard N. Horowitz 165

15. Sudden death in children: prediction and prevention
Paul C. Gillette and William W. Hammill 171

16. Pathology of the conduction system in Pokkuri disease (sudden death of unknown etiology in young men)
Ryozo Okada and Koh Gotoh 177

17. The arrhythmogenic right ventricle
G. Fontaine, F. Fontaliran, E. Linares-Cruz, G. Chomette and Y. Grosgogeat 189

18. Some genetic analysis of the Romano-Ward syndrome: with special reference to the incidence of manifestations and its sex difference
Kunitake Hashiba 203

19. Clinical significance of ventricular late potentials
Günter Breithardt, Martin Borggrefe, Andrea Podczeck, Joachim Schwarzmaier and Ulrich Karbenn 211

20. Arrhythmia surgery: an overview
Will C. Sealy 225

21. Surgery for the treatment of refractory tachyarrhythmias
I. Supraventricular tachyarrhytmias
James L. Cox 233

22. Surgical management of the Wolff-Parkinson-White syndrome
Takashi Iwa, Keiichi Mukai, Takuro Misaki, Takeshi Mitsui and Yasuhiro Matsunaga . . 239

23. Cryoablation of the Wolff-Parkinson-White syndrome without use of cardiopulmonary bypass: indications and techniques
J. Bredikis, R. Putelis, J. Sakalauskas, R. Lekas, A. Bredikis and R. Benetis 251

24. Results of surgical cure for atrioventricular junctional reentrant tachycardia
David C. Johnson 257

25. Surgery for the treatment of refrectory tachyarrhythmias
II. Ventricular tachyarrhythmias
James L. Cox 261

26. Surgical treatment of ventricular arrhythmia in the absence of coronary artery disease
Gerard M. Guiraudon, George J. Klein, Arjun D. Sharma, Raymond Yee and Colette M. Guiraudon 265

27. Surgical management of non-ischemic ventricular tachycardia
Takashi Iwa, Takuro Misaki, Keiichi Mukai, Eiichiro Kamata and Kazuki Ishida 271

28. Malignant ischemic ventricular tachycardia: long-term results after encircling endocardial ventriculotomy
Jörg Ostermeyer, Martin Borggreve, Günter Breithardt, Erhard Godehardt, Ralf Kolvenbach and Wolfgang Bircks 293

29. Cryosurgery: a versatile tool for cardiac arrhythmia
Gerard M. Guiraudon, George J. Klein, Arjun D. Sharma and Raymond Yee 299

30. Treatment of resistant ventricular tachycardia by endocavitary fulguration associated with antiarrhythmic therapy as compared to antiarrhythmic therapy alone
G. Fontaine, R. Frank, J.L. Tonet, Y. Gallais, I. Touzet, M. Todoorva, M. Baraka and Y. Grosgogeat 305

31. Catheter ablation in the Wolff-Parkinson-White syndrome
A. John Camm and David E. Ward 325

32. Cardiac pacing for bradyarrhythmias
Seymour Furman 331

33. Pacemaker treatment of tachyarrhythmias
A. John Camm and David E. Ward 349

34. Clinical experience with the automatic implantable cardioverter-defibrillator
M. Mirowski, Morton M. Mower, Enrico P. Veltri, Juan M. Juanteguy, Lawrence S.C. Griffith, Levi Watkins Jr. and Thomas Guarnieri 359

35. Long-term results of internal low energy cardioversion
William M. Miles, James J. Heger, Eric N. Prystowsky and Douglas P. Zipes 367

Subject Index 379