

SECTION 1. FUNDAMENTALS OF NUCLEAR CARDIOLOGY

- 1. Fundamentals of Nuclear Cardiology Physics*C. David Cooke, James R. Galt and E. Lindsey Tauxe
- 2. Radiation Safety and Protection in Nuclear Cardiology*James R. Galt, C. David Cooke and Jason S. Tavel
- 3. Radiopharmaceuticals for Cardiovascular Imaging*James C. Case and Gary V. Heller
- 4. Cardiac SPECT and PET Instrumentation*James A. Case
- 5. Quality Control in SPECT, Dedicated PET, and Hybrid CT Imaging*Sue Miller, Sunil Selvin, Joey Stevens
- 6. Radiation Exposure and Reduction Strategies in Myocardial Perfusion Imaging*Michael C. Desiderio and Gary V. Heller
- 7. Physician Certification and Laboratory Accreditation*Robert C. Hendel and Gursukhman Deep S. Sidhu

SECTION 2. RADIONUCLIDE MYOCARDIAL PERFUSION IMAGING

- 8. Exercise and Pharmacologic Stress Testing*Seyed Mehdi Khalafi, Archana Ramireddy and Robert C. Hendel
- 9. SPECT Myocardial Perfusion Imaging Protocols*Milena J. Henzlova, Cole B. Hirschfeld and Andrew J. Einstein
- 10. Cardiovascular Positron Emission Tomographic Imaging*Matthew Memmott, Parthiban Arumugam and Gary V. Heller
- 11. Myocardial Blood Flow Quantitation in Clinical Practice*Krishna K. Patel and Timothy M. Bateman
- 12. Ventricular Function*Prem Soman and Saurabh Malhotra
- 13. Non-Cardiac Findings*Rupa M. Sanghani and Jamarío Skeete
- 14. Interpretation and Reporting of SPECT and PET Myocardial Perfusion Imaging*Robert C. Hendel and Gary V. Heller

SECTION 3. INDICATIONS AND APPLICATIONS

- 15. Clinical Applications of Quantitation and Artificial Intelligence in Nuclear Cardiology*Robert J. H. Miller and Piotr J. Slomka
- 16. Appropriate Use of Nuclear Cardiology Techniques*Gursukhman Deep S. Sidhu and Robert C. Hendel
- 17. Evaluation of Patients with Suspected Coronary Artery Disease*Sanjeev U. Nair and

Gary V. Heller

18. Evaluation of Patients with Known Coronary Artery Disease Javier Gomez and Rami Doukky

19. Risk Stratification with Myocardial Perfusion Imaging Javier Gomez and Rami Doukky

20. Nuclear Cardiovascular Imaging in Special Populations Robert Hendel, Michael Desiderio and Gary V Heller

21. Preoperative Risk Assessment for Non-Cardiac Surgery Muhammad Siyab Panhwar, Sumeet S. Mitter and Robert Hendel

22. Radionuclide Imaging in Heart Failure Gautam V. Ramani and Prem Soman

SECTION 4. BEYOND PERFUSION IMAGING

23. Nuclear Cardiology Procedures in the Evaluation of Myocardial Viability Christiane Wiefels, Fernanda Erthal, Benjamin Chow, Gary Heller and Rob Beanlands

24. Radionuclide Imaging of Cardiac Innervation Mark I. Travin and Ana Valdivia

25. Imaging Cardiac Amyloidosis Cory Henderson, Dillenia Rosica and Sharmila Dorbala

26. 18F-FDG PET/CT for Imaging Cardiac Sarcoidosis and Inflammation Cesia Gallegos, Bryan D. Young and Edward J. Miller

27. Hybrid Imaging: SPECT-CT and PET-CT Cory Henderson, Patrycja Galazka and Sharmila Dorbala