

Contents

Section I Physiology of Aging

1. Invited Commentary	3
Jesse Roth	
2. Cell and Molecular Aging	5
Priyamvada Rai and Bruce R. Troen	
3. Cancer, Carcinogenesis, and Aging	39
Lodovico Balducci	
4. Effects of Aging on Immune Function	49
Raymond P. Stowe and James S. Goodwin	
5. Hematological Changes, Anemia, and Bleeding in Older Persons	69
Bruce O. Hough and Gurkamal S. Chatta	
6. Invited Commentary	83
Stanley J. Dudrick	
7. Nutrition	87
Sandhya A. Lagoo-Deenadayalan and Danny O. Jacobs	
8. Wound Healing in the Elderly	107
Guy P. Marti, Lixin Liu, Xianjie Zhang, Dongmei Xing, Denise C. King, Angela R. Kohli, Maura Reinblatt, William B. Greenough, and John W. Harmon	
9. Frailty and Surgery in the Elderly	129
Babak J. Orandi, Jordan M. Winter, Dorry L. Segev, and Martin A. Makary	

Section II Social/Societal Issues

10. Invited Commentary	137
Michael E. Zenilman	
11. The Demography of Aging and Disability	139
Samir K. Sinha and Colleen Christmas	
12. Providing Surgical Care to an Aging Population: Implications for the Surgical Workforce	153
David A. Etzioni and Clifford Y. Ko	

13. Defining Quality of Care in Geriatric Surgery.....	171
Marcia L. McGory, Hiroko Kunitake, and Clifford Y. Ko	
14. Ethics in Clinical Practice	179
Margaret Drickamer	
15. Teaching Geriatrics to Surgeons.....	189
Hugh L. Willcox III, Darin L. Passer, and Richard M. Bell	
16. Palliative Care and Decision Making at the End of Life	197
Melissa F. Perkal	
17. Surgery in Centenarians.....	211
Mark R. Katlic	
18. The Effect of Advancing Age on Physician Performance.....	223
Jennifer F. Waljee and Lazar J. Greenfield	

Section III Perioperative Issues

19. Invited Commentary	233
Ben Eiseman	
20. Principles of Geriatric Surgery.....	235
Mark R. Katlic	
21. Geriatric Models of Care.....	253
Elizabeth A. Capezuti, Marie Boltz, and Hongsoo Kim	
22. Preoperative Evaluation of the Older Surgical Patient	267
Lisa M. Walke and Ronnie A. Rosenthal	
23. Invited Commentary	289
Jerry G. Reves	
24. Physiologic Response to Anesthesia in the Elderly	291
Aaron N. LacKamp and Frederick E. Sieber	
25. Choosing the Best Anesthetic Regimen.....	305
Sheila R. Barnett	
26. Acute Postoperative Pain Management in Elderly Patients	321
Jack M. Berger	
27. Drug Usage in Surgical Patients: Preventing Medication-Related Problems	343
Richard A. Marottoli, Sean M. Jeffery, and Roshini C. Pinto-Powell	
28. Invited Commentary	359
Donald D. Trunkey	
29. Common Perioperative Complications in Older Patients	361
Sandhya A. Lagoo-Deenadayan, Mark A. Newell, and Walter E. Pofahl	

30. Management and Outcomes of Intensive Care in the Geriatric Surgical Patient.....	377
Gary T. Marshall and Scott R. Gunn	
31. Care of the Injured Elderly	391
Jay Menaker and Thomas M. Scalea	
32. Maximizing Postoperative Functional Recovery.....	411
Leo M. Cooney	

Section IV Endocrine System/Breast

33. Invited Commentary	419
Samuel A. Wells	
34. Surgical Disorders of the Thyroid in the Elderly	421
Leslie S. Wu, Julie Ann Sosa, and Robert Udelsman	
35. Parathyroid Disease in the Elderly	439
Leslie S. Wu, Sanziana A. Roman, and Robert Udelsman	
36. Adrenal Tumors in Older Persons.....	455
Tobias Carling and Robert Udelsman	
37. Benign Breast Disease in Elderly Women and Men.....	469
Kay O. Lovig and Barbara A. Ward	
38. Breast Cancer in Elderly Women	479
Monica Morrow and Lisa S. Wiechmann	
39. Diabetes in the Elderly.....	493
Klara Rosenquist and Kitt F. Petersen	

Section V Oral Cavity, Eyes, Ears, Nose and Throat

40. Invited Commentary	499
Frank E. Lucente	
41. Changes in the Oral Cavity with Age.....	501
Susan Pugliese and Ajay R. Kashi	
42. Geriatric Ophthalmology	513
Andrew G. Lee and Hilary A. Beaver	
43. Anatomic and Physiologic Changes in the Ears, Nose, and Throat	525
Ara A. Chalian and Sarah H. Kagan	
44. Geriatric Dysphagia.....	539
Neil N. Chheda, Gregory N. Postma, and Michael M. Johns	
45. Head and Neck Cancer in the Elderly.....	553
Babak Givi and Ashok R. Shaha	

Section VI Respiratory System

46. **Invited Commentary** 591
Earle W. Wilkins Jr.
47. **Physiologic Changes in Respiratory Function** 595
Edward J. Campbell
48. **Pulmonary Surgery for Malignant Disease in the Elderly** 605
Sarah E. Billmeier and Michael T. Jaklitsch

Section VII Cardiovascular System

49. **Invited Commentary** 619
Timothy J. Gardner
50. **Physiologic Changes in Cardiac Function with Aging** 621
Wilbert S. Aronow and William H. Frishman
51. **Risk Factors for Atherosclerosis in the Elderly** 635
Wilbert S. Aronow and William H. Frishman
52. **Cardiac Surgery in the Elderly** 649
Margarita T. Camacho and Pooja R. Raval
53. **Invited Commentary** 661
Frank J. Veith
54. **Surgical Treatment of Vascular Occlusive Disease** 663
Amanda Feigel and Alan Dardik
55. **Natural History and Treatment of Extracranial Cerebrovascular Disease in the Elderly** 673
George H. Meier and Carlos Rosales
56. **Natural History and Treatment of Aneurysms** 689
Michael Wilderman and Gregorio A. Sicard

Section VIII Gastrointestinal System

57. **Invited Commentary** 709
Courtney M. Townsend Jr.
58. **Age-Related Changes in the Gastrointestinal Tract** 711
Nefertiti A. Brown, Joshua L. Levine, and Michael E. Zenilman
59. **Benign Esophageal Diseases in the Elderly** 729
Prathima Kanumuri and Neal E. Seymour
60. **Esophageal Cancer in the Elderly** 747
Philip A. Rascoe, John C. Kucharczuk, and Larry R. Kaiser
61. **Benign Diseases of Stomach and Duodenum** 763
Daniel Borja-Cacho and Selwyn M. Vickers

62. Gastric Cancer in the Elderly	781
Daniel Albo, Daniel A. Anaya, and David H. Berger	
63. Small Bowel Obstruction in the Elderly	793
Kelley A. Sookraj and Wilbur B. Bowne	
64. Lower Gastrointestinal Bleeding in the Elderly	807
Sylvia S. Kim and Michael E. Zenilman	
65. Ischemic Disorders of the Large and Small Bowel	819
Jack R. Oak and Gregorio A. Sicard	
66. Surgery for Inflammatory Bowel Disease in the Elderly	837
Stefan D. Holubar and Bruce G. Wolff	
67. Diverticulitis and Appendicitis in the Elderly	857
Scott C. Thornton	
68. Benign Colorectal Disease	877
Elisa H. Birnbaum	
69. Neoplastic Diseases of the Colon and Rectum	889
Aundrea L. Oliver, Stanley W. Ashley, and Elizabeth Breen	
70. Abdominal Wall Hernia in the Elderly	907
Catherine Straub and Leigh Neumayer	

Section IX Hepatobiliary System

71. Invited Commentary	929
Seymour I. Schwartz	
72. Hepatobiliary and Pancreatic Function: Physiologic Changes.....	931
Vadim Sherman and F. Charles Brunicaudi	
73. Benign Disease of the Gallbladder and Pancreas.....	945
Jennifer A. Wargo and Kim U. Kahng	
74. Malignant Diseases of the Gallbladder and Bile Ducts	967
Steven A. Ahrendt and Thomas H. Magnuson	
75. Benign and Malignant Neoplasms of the Exocrine Pancreas	985
Kathryn M. Dalbec and Keith D. Lillimoe	
76. Benign and Malignant Tumors of the Liver	1007
Anita Kit Wan Chiu and Yuman Fong	

Section X Urogenital System

77. Invited Commentary	1023
George W. Drach	
78. Change in Renal Function, Fluids, and Electrolytes	1025
Juan F. Macías-Núñez and Manuel Martínez-Maldonado	

79. Urinary Incontinence in the Elderly	1039
Pat O'Donnell	
80. Neoplasms of the Kidney and Bladder.....	1049
Edward M. Uchio, Juan S. Calderon, and Jonathan J. Hwang	
81. Benign and Malignant Diseases of the Prostate	1069
John A. Taylor III and Peter C. Albertsen	
82. Benign Gynecologic Disorders in the Older Women	1083
Kimberly A. Gerten, W. Jerod Greer, C. Bryce Bowling, Thomas Wheeler II, and Holly E. Richter	
83. Gynecologic Malignancies in the Elderly.....	1101
Dan-Arin Silasi, Peter E. Schwartz, and Thomas J. Rutherford	

Section XI Nervous System

84. Invited Commentary.....	1119
Dennis Spencer	
85. Effects of Aging on the Nervous System	1121
Howard A. Crystal, Pedro J. Torrico, Shefali Gandhi, and Paul J. Maccabee	
86. Geriatric Neurosurgical Emergencies.....	1135
Toral R. Patel and Joseph T. King Jr.	
87. Benign and Malignant Tumors of the Brain.....	1151
Andrew D. Norden and Elizabeth B. Claus	
88. Spinal Disorders and Nerve Compression Syndromes.....	1165
Arash Yaghoobian and John M. Olsewski	

Section XII Musculoskeletal System and Soft Tissue

89. Invited Commentary.....	1197
Roby C. Thompson Jr.	
90. Age-Related Changes in Bone and Soft Tissue.....	1201
David Rispler and Susan M. Day	
91. Common Benign and Malignant Skin Lesions.....	1221
Marcus A. McFerren and David J. Leffell	
92. Surgical Management of Soft Tissue Sarcoma in the Geriatric Population.....	1245
Charlotte E. Ariyan and Murray F. Brennan	
93. Pressure Sores in the Elderly	1257
Alexander Y. Lin and Mary H. McGrath	
94. Orthopaedic Trauma in the Elderly	1273
William Min, Kenneth A. Egol, and Joseph D. Zuckerman	

95. Treatment of Degenerative Joint Diseases	1293
Philip J. Glassner, James Slover, and Joseph D. Zuckerman	
Section XIII Transplantation	
96. Invited Commentary	1319
Khalid M.H. Butt	
97. Elderly Donors in Transplantation.....	1321
Manuel Mendizabal, John W. Hsu, and Abraham Shaked	
98. Elderly Transplant Recipients	1335
Aaron M. Winnick, Ilhan Karabicak, and Dale A. Distant	
Index.....	1351

Principles and Practice of Geriatric Surgery

Rosenthal, R.A.; Zenilman, M.E.; Katlic, M.R. (Eds.)

2011, XXIX, 1387 p. 483 illus., 151 illus. in color.,

Hardcover

ISBN: 978-1-4419-6998-9