

SYLVIA C. McKEAN • ADRIENNE L. BENNETT • LAKSHMI K. HALASYAMANI

HOSPITAL MEDICINE



just the facts

- Learn more in less time
- Perfect as a clinical refresher or exam review
- Covers core clinical topics encountered in hospital medicine
- Includes coverage of key organizational and administrative issues

CONTENTS

<i>Contributors</i>	xi
<i>Foreword</i>	xix
<i>Acknowledgments</i>	xxiii

Section 1

THE HOSPITALIST MOVEMENT

1 Hospital Medicine in the United States: Growth, Prevalence, and Challenges <i>Winthrop F. Whitcomb</i>	1
2 The Role of the Hospitalist as Defined in the Core Competencies in Hospital Medicine <i>Daniel D. Dressler</i>	3
3 Innovative New Roles in the Hospital <i>Lance Rachelefsky and Sylvia C. McKean</i>	7

Section 2

SYSTEMS—HOSPITALISTS AS LEADERS IN PATIENT SAFETY

4 General Overview of Patient Safety <i>Sylvia C. McKean and Allan Frankel</i>	13
5 Adverse Drug Events <i>Frank Federico</i>	21
6 Medication Discrepancies and Medication Reconciliation <i>Jeffrey L. Schnipper</i>	24
7 Polypharmacy <i>Jatin K. Dave and Juergen Bludau</i>	30
8 Patient Safety: Preventing and Responding to Adverse Events <i>Allen Kachalia and Tejal K. Gandhi</i>	36

Section 3

QUALITY IMPROVEMENT

- 9** Quality Improvement for the Hospitalist
Lakshmi K. Halasyamani and Erin R. Stucky 41

Section 4

HOSPITALIST AS MANAGER

- 10** Management for Hospitalists
Michael Friedlander and Mohammad Salameh 47

Section 5

HOSPITALISTS AND CARE TRANSITIONS AND TEAMWORK

- 11** Principles of Good Teamwork *Janet Nagamine* 53
12 Strategies to Optimize Length of Stay
Kathleen M. Finn 57
13 Handoffs *Vineet Arora and Julie Johnson* 62
14 Discharge Summaries *Marcy G. Carty
and Namita S. Mohta* 68
15 Patient Education in the Hospital *Marie Neaton* 72
16 Managing Test Results at Hospital Discharge
Christopher L. Roy 76

Section 6

EVIDENCE-BASED MEDICINE

- 17** An Introduction to Evidence-Based Medicine
Eduardo Ortiz 81
18 Evidence-Based Medicine—Testing
Sylvia C. McKean and Eduardo Ortiz 91
19 The Growing Importance of Cost-Effectiveness
Analysis in Managing Hospitalized Patients
Jerome Lewis Avorn 96
20 Hospitalist As Researcher *LeRoi Hicks* 99

Section 7

HOSPITALIST CLINICAL CORE COMPETENCIES

Cardiovascular Illness

- 21** Chest Pain *Timothy D. Brennan* 105
22 Suspected Angina *Aaron S. Wenger* 112
23 Acute Coronary Syndromes *Hacho Bohossian* 120
24 Advanced Cardiac Life Support *Apoor Patel* 127
25 Atrial Fibrillation and Atrial Flutter
Robert D. Winslow 129

26	Supraventricular Tachycardia	<i>Mara Giattina</i>	137
27	Sinus Bradycardia and Atrioventricular Blocks	<i>Apoor Patel</i>	147
28	Ventricular Arrhythmias	<i>Beth Liston</i>	152
29	Heart Failure due to Diastolic Dysfunction	<i>Colleen M. Crumlish and James C. Fang</i>	156
30	Heart Failure due to Systolic Dysfunction	<i>Colleen M. Crumlish and James C. Fang</i>	159
31	Syncope	<i>Daniel W. Mudrick</i>	168
32	Hypertensive Urgencies/Emergencies	<i>Renee Y. Meadows</i>	174
33	Secondary Hypertension	<i>Renee Y. Meadows</i>	182
Endocrine Disorders			
34	Diabetic Ketoacidosis and Hyperosmolar Hyperglycemia	<i>Mohammad Salameh</i>	188
35	Hyperglycemia in the Critical Care Unit	<i>A. Rebecca Daniel</i>	194
36	Hyperglycemia in Noncritically-Ill Hospitalized Patients	<i>Aditi R. Saxena and Merri L. Pendergrass</i>	198
37	Hypothyroidism and Hyperthyroidism	<i>Rachael Fawcett and Erik K. Alexander</i>	205
Gastrointestinal Illness			
38	Abdominal Pain	<i>Norton J. Greenberger</i>	211
39	Abnormal Liver Enzymes and Acute Hepatitis	<i>Mary Ann H. Sherbondy</i>	217
40	Cirrhosis	<i>Thomas M. Shehab</i>	220
41	Colitis and Diarrhea, Including <i>Clostridium difficile</i>	<i>Marvin Ryou</i>	223
42	Crohn's Disease	<i>Jonathan Levine and Robert Burakoff</i>	231
43	Ulcerative Colitis	<i>Scott Hande and Robert Burakoff</i>	235
44	Diverticular Disease and Diverticulitis	<i>Norton J. Greenberger</i>	240
45	Pancreatitis	<i>Eric R. Schumacher</i>	242
46	Small Bowel Obstruction	<i>Lynn Wilkinson</i>	247
47	Upper Gastrointestinal Bleeding	<i>Naresh T. Gunaratnam</i>	251
48	Lower Gastrointestinal Tract Bleeding	<i>Naresh T. Gunaratnam</i>	256
Hematological Derangements			
49	Anemia in the Hospitalized Patient	<i>Eric Kupersmith, Susan Coutinho McAllister, and Alpesh Amin</i>	260

50	Sickle Cell Disease	<i>Andrew D. Campbell</i>	263
51	Thrombocytopenia	<i>Rovie Mesola</i>	268
52	Transfusion Medicine	<i>Susan Coutinho McAllister, Eric Kupersmith, and Alpesh Amin</i>	272
Infectious Diseases			
53	Fever of Unknown Origin	<i>David Oxman and Harry Schrager</i>	278
54	Bacterial Endocarditis	<i>John J. Ross</i>	282
55	Community- and Hospital-Acquired UTI	<i>John J. Ross</i>	289
56	Hospital-Acquired Bacteremia	<i>Danielle Scheurer</i>	294
57	Influenza	<i>John J. Ross</i>	296
58	Skin and Soft Tissue Infections	<i>Ranjan Chowdhry and Harry M. Schrager</i>	300
59	Viral Gastroenteritis	<i>Harry Schrager</i>	308
60	Antibiotic Resistance	<i>John J. Ross</i>	310
Neurologic Illness			
61	Confusion: Examination and Differential Diagnosis	<i>Zeina Chemali</i>	316
62	Delirium	<i>Jatin K. Dave, Colleen M. Crumlish, and James Rudolph</i>	323
63	Ischemic Stroke/Transient Ischemic Attacks	<i>Susan L. Hickenbottom</i>	328
64	Cerebral Hemorrhage	<i>Galen V. Henderson</i>	335
65	Meningitis/Encephalitis	<i>Susan L. Hickenbottom</i>	339
66	Seizure	<i>Susan L. Hickenbottom.</i>	344
Psychiatric Illness			
67	Assessing Capacity for Medical Decision Making	<i>David F. Gitlin and Ajita Mathur</i>	350
68	Behavioral Disturbances That Interfere with Medical Care	<i>Michelle Nichols, Bernard Vaccaro, and David F. Gitlin</i>	355
69	Drug Overdose	<i>A. Rebecca Daniel</i>	360
70	Management of Patients with Alcohol Abuse	<i>Sylvia C. McKean</i>	373
71	Management of Patients with Drug Abuse	<i>Mohammad Salameh</i>	379
72	Management of Suicidal Patients	<i>Christine K. Kim, Meghan Kolodziej, and David F. Gitlin</i>	383
Pulmonary Illness/Critical Care Medicine			
73	Shortness of Breath	<i>Andrew S. Karson and Sylvia C. McKean</i>	388

74	Asthma	<i>Andrew S. Karson</i>	395
75	Chronic Obstructive Pulmonary Disease	<i>Andrew S. Karson</i>	402
76	Acute Respiratory Failure	<i>Abigail R. Lara and William J. Janssen</i>	407
77	Community-Acquired Pneumonia	<i>Adrienne L. Bennett</i>	412
78	Hospital-Acquired, Ventilator-Associated and Healthcare-Acquired Pneumonia	<i>Nathan J. O'Dorisio</i>	422
79	Complications of Pneumonia	<i>Karen Catignani</i>	426
80	Sepsis and Septic Shock	<i>William J. Janssen</i>	432
81	Ventilatory Support	<i>Joshua J. Solomon, Ryan McGhan, and William J. Janssen</i>	438
Renal Illness			
82	Prevention of Acute Renal Failure in the Hospital	<i>Glen M. Kim</i>	446
83	Acute Renal Failure	<i>Prabhdeep Sandhu and Adam C. Schaffer</i>	452
84	Chronic Kidney Disease	<i>Li-Li Hsiao and Valerie Luyckx</i>	458
85	Care of the Hospitalized Dialysis Patient	<i>J. Kevin Tucker</i>	464
86	Acid-Base Disorders	<i>David V. Gugliotti</i>	469
87A	Disorders of Sodium and Water	<i>Kambiz Zandi-Nejad and Chin C. Tang</i>	477
87B	Disorders of Potassium	<i>Kambiz Zandi-Nejad and Chin C. Tang</i>	484
Venous Thromboembolism			
88	Prevention of Venous Thromboembolism in Medical and Surgical Patients	<i>Sylvia C. McKean</i>	494
89	Venous Thromboembolism	<i>Amir Jaffer and Franklin Michota</i>	501
90	Anticoagulant Therapies	<i>Rosalyn M. Nazaria and Michael Laposata</i>	506

Section 8

HOSPITALISTS AS EXPERTS

91	Deconditioning	<i>Joanne Borg-Stein and Claudia Wheeler</i>	515
92	Nutrition and the Hospitalized Patient	<i>Vihes Patel and Malcolm K. Robinson</i>	520
93	Pain Management	<i>Darin J. Correll</i>	527

94	Palliative Care: Overview and Symptom Management <i>Jane deLima Thomas and David F. Giansiracusa</i>	539
95	Palliative Care: Caring for the Dying Patient <i>David F. Giansiracusa and Jane deLima Thomas</i>	545
96	Palliative Care: Communication <i>David F. Giansiracusa and Jane deLima Thomas</i>	549

Section 9

HOSPITALISTS CARING FOR SPECIAL POPULATIONS

97	Care of Vulnerable Populations <i>Cheryl Clark</i>	557
98	Inpatient Care of the Frail Older Adult <i>Anne Fabiny</i>	563
99	Oncologic Emergencies for the Hospitalist <i>Rundsarah Tahboub</i>	569
100	Skilled Nursing Facility Care <i>Darrell W. Craig</i>	579

Section 10

HOSPITALIST AS MEDICAL CONSULTANT

101	Preoperative Evaluation of the Patient Undergoing Noncardiac Surgery <i>Satyen S. Nichani and Steven L. Cohn</i>	585
102	Perioperative Medication Management <i>Vibhu Sharma and Steven L. Cohn</i>	592
103	Preoperative Screening Tests <i>Ali Azarm and Steven L. Cohn</i>	599
104	Postoperative Complications <i>Danielle Scheurer and Cregg Ashcraft</i>	604
105	Surgical Comanagement <i>Shaun Frost</i>	611

Section 11

HOSPITALIST AS TEACHER

106	Adult Learning Principles and Hospitalist Medicine <i>Grace Huang</i>	615
107	Teaching Venues for the Hospitalist <i>Bradley A. Sharpe</i>	617
108	Teaching on a Team <i>Cindy Lai</i>	621
109	Feedback and the Hospitalist <i>Anjala Tess</i>	625
110	Scholarship and Career Development for the Hospitalist Clinician Educator <i>Preetha Basaviah and Subha Ramani</i>	627