

# TABLE OF CONTENTS

<b>Medical Issues I</b> .....	<b>1</b>
Medical Issues I Panel .....	3

## Hypertensive Emergencies

*By Scott T. Benken, Pharm.D., BCPS-AQ Cardiology*

Introduction .....	7
Treatment Goals .....	8
Blood Pressure Variability .....	12
Treatment of Hypertensive Emergency .....	14
Medications Used in Hypertensive Emergency .....	14
Conclusion .....	24
References .....	24
Self-Assessment Questions .....	29

## Acute GI Bleeding

*By Serena Ann Harris, Pharm.D., BCPS, BCCCP*

Introduction .....	33
Diagnosis and Evaluation .....	35
Nonpharmacologic Management .....	38
Pharmacologic Management .....	40
Reinitiation of Anticoagulant or Antiplatelet Therapy .....	46
Conclusion .....	48
References .....	48
Self-Assessment Questions .....	51

<b>Medical Issues II</b> .....	<b>55</b>
Medical Issues II Panel .....	57

## Anaphylaxis, Allergies, Angioedema, and Acute CNS Disorders

*By Gourang Patel, Pharm.D., MSc, FCCM, BCPS, BCCCP;  
and Megan A. Rech, Pharm.D., M.S., BCPS, BCCCP*

Introduction .....	61
Anaphylaxis .....	62
HAE and Acquired AE .....	67
CNS Syndromes .....	72
Conclusion .....	77
References .....	78
Self-Assessment Questions .....	80

## Endocrine Emergencies

*By Susan E. Hamblin, Pharm.D., BCPS, BCCCP;  
and Kelli A. Rumbaugh, Pharm.D., BCPS*

Introduction .....	83
Alterations in Endocrine Function in Critical Illness .....	83

Emergency Pituitary Disorders .....	85
Adrenal Emergencies .....	87
Hyperglycemic Crisis .....	90
Emergency Thyroid Disorders .....	94
Emergency Calcium Disorders .....	97
Conclusion .....	99
References .....	99
Self-Assessment Questions .....	103

<b>Medical Issues III</b> .....	<b>107</b>
Medical Issues III Panel .....	109

## Patients with Immunocompromise in the ICU

*By Mark H. Pangrazzi, Pharm.D., BCCCP;  
and Ryan P. Mynatt, Pharm.D.*

Alterations to the Immune System in Immunocompromised Patients .....	113
Malignancy .....	115
Care of the Patient with HIV Infection .....	119
Transplantation .....	121
References .....	134
Self-Assessment Questions .....	140

## End-of-Life Care in the ICU

*By Marilyn N. Bulloch, Pharm.D., FCCM, BCPS;  
and Jim E. Winegardner, Pharm.D., BCPS, BCCCP*

Introduction .....	145
Policy Statements on EOL Care in the ICU .....	146
Medication Withdrawal .....	147
Alternative Dosage Forms .....	150
Pain Management at EOL .....	152
Artificial Nutrition and Hydration at EOL .....	155
Management of Non-pain Symptoms .....	155
Controversies in EOL Care in the ICU .....	160
Conclusion .....	161
References .....	161
Self-Assessment Questions .....	165