

CONTENTS

PART I	
BEFORE THE CCU	1
1	
INTRODUCTION.....	2
2	
PATHOPHYSIOLOGY OF MYOCARDIAL ISCHEMIA AND THE CORONARY CIRCULATION.....	6
3	
PREHOSPITAL CORONARY CARE	12
The Acute Event.....	12
Risk Factors.....	14
PART II	
THE CCU-HOSPITAL PHASE.....	17
INITIAL HOSPITAL CARE	18
In the Emergency Room.....	18
Transfer from the Emergency Department	23
5	
THE CCU ENVIRONMENT, THE PATIENT, AND THE NURSE.....	24
Cynthia A. Padula, R.N.	
The Physical Environment of the CCU.....	24
The Emergence of Cardiovascular Nursing Practice.....	25
Effect of the CCU Environment on the Patient	27
Effect of the CCU Environment on the Family.....	28
Effect of the CCU Environment on the Nurse	29
6	
CCU ORDERS.....	32
7	
CCU DIET AND ACTIVITY.....	38
Diet	38
Bedrest/Activity.....	41
Other Activities	43

8	THE DIAGNOSIS OF MYOCARDIAL INFARCTION	45
	General Considerations.....	45
9	THE DIAGNOSIS OF UNSTABLE ANGINA	50
10	ECHOCARDIOGRAPHY AND RADIONUCLIDE IMAGING IN MYOCARDIAL INFARCTION DIAGNOSIS	54
	Echocardiography	54
	Radionuclide Imaging.....	56
11	PROGNOSIS IN MYOCARDIAL INFARCTION	65
	General Guidelines	65
	Clinical Application	68
	Recommendations.....	69
 PART III		
	INVASIVE MONITORING AND PROCEDURES IN THE CCU.....	71
12	FLOW-DIRECTED BALLOON-TIPPED PULMONARY ARTERY CATHETERS; INTRAARTERIAL BLOOD PRESSURE MEASUREMENTS	72
	William E. Boden, M.D., and William E. Kaye, M.D.	
	Swan-Ganz Catheter	72
	Intraarterial Blood Pressure Measurement	78
	Care of the Catheter, Transducer, and Electronic Monitor.....	84
	Measures to Prevent Transducer-Related Infection.....	85
13	TEMPORARY TRANSVENOUS CARDIAC PACEMAKERS..	86
	William E. Kaye, M.D.	
	Equipment.....	86
	Indications for the Emergency Cardiac Pacemaker.....	87
	General Principles for Pacemaker Catheter Insertion....	88
	Choice of Pacemaker Site and Catheter for Insertion ...	91
	Complications of Cardiac Pacing.....	93
14	INTRAAORTIC BALLOON COUNTERPULSATION.....	96

PART IV**CCU TREATMENT OF MYOCARDIAL****INFARCTION, ANGINA PECTORIS, AND THEIR
COMPLICATIONS**

15	ARRHYTHMIAS IN ACUTE MYOCARDIAL INFARCTION: RECOGNITION AND MANAGEMENT	102
	Classification of Arrhythmias	102
	Identification and Treatment of Arrhythmias	103
	Emergency Synchronized DC Cardioversion	115
16	MEDICAL MANAGEMENT OF ACUTE MYOCARDIAL INFARCTION	118
	General Considerations	118
	Clinical Implications	118
17	MEDICAL TREATMENT OF UNSTABLE ANGINA AND PRINZMETAL VARIANT ANGINA	125
	Unstable Angina	125
	Prinzmetal (Variant) Angina	125
	Recommendations for Treatment of Unstable Angina and Prinzmetal Angina	126
18	HYPERTENSION COMPLICATING ACUTE MYOCARDIAL INFARCTION	132
19	LEFT VENTRICULAR FAILURE COMPLICATING MYOCARDIAL INFARCTION	135
	General Background	135
	Recommendations	138
20	THE MYOCARDIAL INFARCTION SHOCK SYNDROME	142
21	ACUTE MITRAL REGURGITATION AND RUPTURE OF THE INTERVENTRICULAR SEPTUM	151
22	MISCELLANEOUS COMPLICATIONS POSTMYOCARDIAL INFARCTION	157
	Pericarditis	157
	Dressler's Syndrome	159

Pulmonary Embolism	161
Systemic Embolism.....	163
Myocardial Rupture.....	164
23	
POSTINFARCTION ANGINA.....	166
24	
SALVAGE OF ISCHEMIC MYOCARDIUM AND LIMITATION OF INFARCT SIZE	169
25	
ANTICOAGULANTS, ANTIPLATELET AGENTS, AND BETA-BLOCKERS IN ACUTE ISCHEMIC HEART DISEASE.....	174
 PART V	
AFTER THE CCU	179
26	
CARDIAC REHABILITATION.....	180
 INDEX	185