

EMS Respiratory Emergency Management

DeMYSTiFieD[®]

Hard stuff made easy[™]

Emergency airway management
for ALL LEVELS of EMS TRAINING

PROTOCOLS to assess, oxygenate,
intubate, and monitor patients

Evidence-based algorithms,
objectives, KEY TERMS,
SCENARIOS



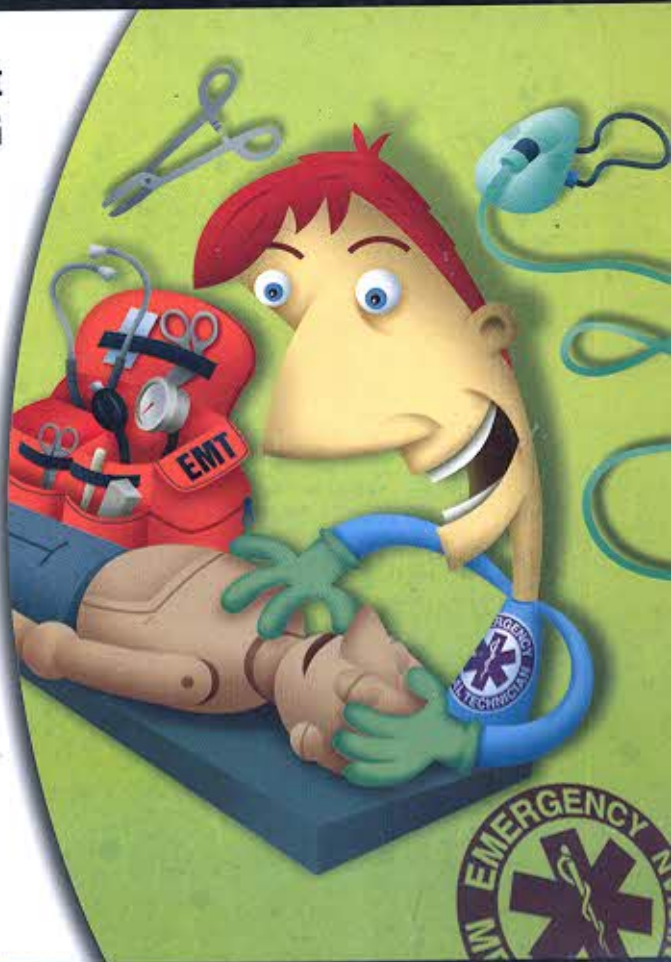
10044068

ห้องสมุด วพบ. สุรินทร์

QUESTIONS with
Answers following
every chapter

Mc
Graw
Hill
Education

Peter A. DiPrima, Jr.





Contents

<i>Preface</i>	<i>ix</i>
<i>Acknowledgment</i>	<i>x</i>

CHAPTER 1	Anatomy and Physiology of the Respiratory System	1
	The Respiratory System	2

CHAPTER 2	Acid-Base Balance, Blood Gas Analysis	33
	Scenario	34
	Introduction	34
	Oxyhemoglobin Dissociation Curve	52

CHAPTER 3	Pathophysiology of Apnea and Hypoxia	61
	What is Hypoxia	62

CHAPTER 4	Pulse Oximetry and Capnography; What's the difference?	71
	Introduction	72
	Principles of Pulse Oximetry	83

CHAPTER 5	Oxygen Delivery Devices and Bag-Valve-Mask Ventilation	93
	Introduction	94

CHAPTER 6	Respiratory Pharmacology	109
	Scenario	110
	Introduction	111
	Anatomy of the Autonomic Nervous System	112

CHAPTER 7	Respiratory Emergencies	141
	Scenario	142
	Respiratory Patterns	142
	Lung Sounds	142
	Asthma	142
	Chronic Obstructive Pulmonary Disease	144
	Chronic Bronchitis	144
	Emphysema	145
	Pulmonary Edema	147
	Pneumonia	150
	Respiratory Failure	155
<hr/>		
CHAPTER 8	Rapid Sequence Intubation	165
	Introduction	166
	Rapid Sequence Induction versus Rapid Sequence Intubation	166
	Pharmacology: Sedative Agents for Rapid Sequence Intubation	175
	Patients and Findings	189
	Conclusions	190
	Summary	190
<hr/>		
CHAPTER 9	Endotracheal Intubation	193
	Scenario	194
	Introduction	194
	Indications for endotracheal intubation	195
	Specific Criteria for Intubation	195
	Summary	214
<hr/>		
CHAPTER 10	Airway Devices for Difficult Airway Management, Supraglottic Airway Devices	217
	Scenario	218
	Introduction	218
	Laryngeal Mask Airway	219
<hr/>		
CHAPTER 11	Special Clinical Considerations for the “Difficult Airway”	233
	Epidemiology	234
	Airway Management of the Adult Trauma Patient	256
	Emergency Airway Evaluation of the Burn Patient	262
	Airway Management in Pregnancy	265
	Introduction	265

	Anatomic and Physiological Changes during Pregnancy	266
	Morbid Obesity in Pregnancy and Airway	268
	Difficult Airway Management in Bariatric Patients	268
	Introduction	269
	Pulmonary Physiology	269
	Managing the Difficult Airway in Geriatric Patients	272
	Introduction	272
	Cricothyroidotomy Surgical Airway	273
	Introduction	274
<hr/>		
CHAPTER 12	Continuous Positive Airway Pressure (CPAP)	283
	Scenario	284
	Introduction	284
	Pathophysiology of Pulmonary Edema	285
	Index	295