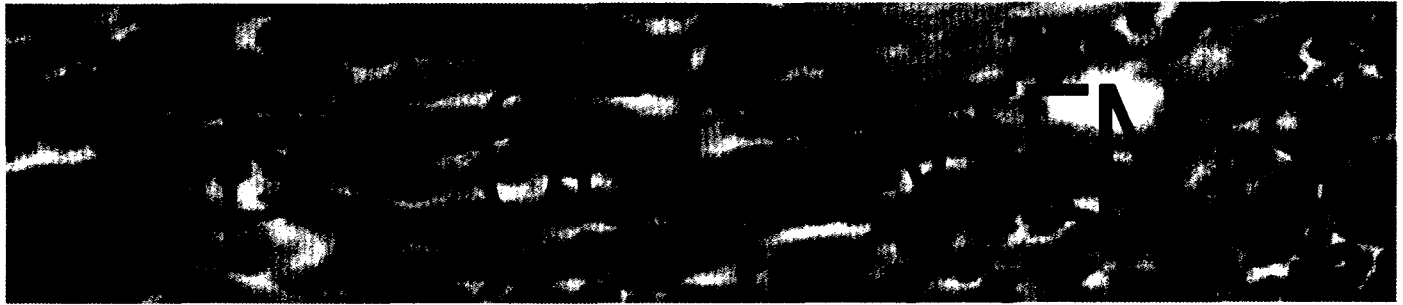




PART I

Autopsy Fundamentals

SECTION 1

Introduction

History of Autopsy	I-1-2
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	
Autopsy Safety	I-1-6
<i>Billie Fyfe, MD</i>	

SECTION 2

Autopsy Performance

External Examination

Medical Intervention	I-2-8
<i>Brandon T. Larsen, MD, PhD</i>	
Postmortem Changes and External Examination	I-2-12
<i>Billie Fyfe, MD</i>	

Internal Examination

Body Cavities	I-2-16
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	
Cardiovascular System	I-2-20
<i>Dylan V. Miller, MD</i>	
Respiratory System	I-2-24
<i>Leslie A. Litzky, MD</i>	
Hematopoietic System	I-2-28
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	
Gastrointestinal System	I-2-34
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	
Hepatobiliary System	I-2-42
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	
Genitourinary System	I-2-48
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	

Endocrine System	I-2-54
<i>Billie Fyfe, MD</i>	
Central Nervous System	I-2-60
<i>Hasini Reddy, MD, DPhil</i>	
Peripheral Nervous System	I-2-66
<i>Roy H. Rhodes, MD, PhD</i>	
Integumentary System	I-2-70
<i>Dylan V. Miller, MD</i>	
Oral Cavity	I-2-74
<i>Billie Fyfe, MD</i>	
Medical Devices	I-2-78
<i>Brandon T. Larsen, MD, PhD</i>	

Laboratory Testing

Chemistry	I-2-82
<i>Rachel Hudacko, MD</i>	
Microbiology	I-2-84
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	
Cytology	I-2-88
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	

Postmortem Imaging

Postmortem Radiography and Virtual Autopsy	I-2-94
<i>Billie Fyfe, MD</i>	

SECTION 3

Autopsy Consent and Reporting

Autopsy Consent

Consent Process and Legal Considerations	I-3-100
<i>Dylan V. Miller, MD</i>	

Autopsy Reporting

Death Certificate	I-3-102
<i>Billie Fyfe, MD</i>	
Autopsy Report	I-3-106
<i>Corinne L. Fligner, MD & Dylan V. Miller, MD</i>	
Presenting Autopsy Findings	I-3-108
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	

PART II

Organ System Approach to Autopsy

SECTION 1

Sudden and Unexpected Death

Cardiovascular

Pulmonary Thromboembolism	II-1-2
<i>Billie Fyfe, MD</i>	
Acute Myocardial Infarction	II-1-4
<i>Vidhya Nair, MBBS, MD, FRCPC & Dylan V. Miller, MD</i>	
Cardiomyopathy	II-1-8
<i>Dylan V. Miller, MD</i>	
Myocarditis	II-1-12
<i>Monica P. Revelo, MD, PhD & Dylan V. Miller, MD</i>	
Cardiac Conduction System	II-1-18
<i>Dylan V. Miller, MD</i>	
Aortic Dissection	II-1-24
<i>Billie Fyfe, MD</i>	
Abdominal Aortic Aneurysm	II-1-30
<i>Billie Fyfe, MD</i>	

Respiratory

Pulmonary Edema	II-1-32
<i>Leslie A. Litzky, MD</i>	
Pulmonary Hemorrhage	II-1-36
<i>Leslie A. Litzky, MD</i>	
Tension Pneumothorax	II-1-40
<i>Leslie A. Litzky, MD</i>	

Gastrointestinal

Upper Gastrointestinal Hemorrhage	II-1-44
<i>Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA</i>	
Lower Gastrointestinal Hemorrhage	II-1-48
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	
Intestinal Ischemia	II-1-52
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	

Hepatobiliary

Hepatic Hemorrhage	II-1-56
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	
Hemorrhagic Pancreatitis	II-1-60
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	
Acute Liver Failure	II-1-64
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	

Genitourinary

Pregnancy Complications	II-1-68
<i>Corinne L. Fligner, MD</i>	
Acute Renal Failure	II-1-74
<i>Monica P. Revelo, MD, PhD & Paisit Pauksakon, MD</i>	

Endocrine

Adrenal Insufficiency	II-1-84
<i>Dylan V. Miller, MD</i>	
Adrenocortical Excess	II-1-88
<i>Patrick Lento, MD</i>	

CNS

Seizure Disorders	II-1-92
<i>Hasini Reddy, MD, DPhil</i>	
Subdural Hemorrhage	II-1-96
<i>Roy H. Rhodes, MD, PhD</i>	
Subarachnoid Hemorrhage	II-1-100
<i>Roy H. Rhodes, MD, PhD</i>	
Stroke	II-1-104
<i>Hasini Reddy, MD, DPhil</i>	

SECTION 2

Postoperative/Post-Interventional Death

Iatrogenic

Therapeutic Complications	II-2-110
<i>Billie Fyfe, MD</i>	

Cardiovascular

Coronary Artery Bypass Grafting	II-2-114
<i>Dylan V. Miller, MD</i>	
Coronary Artery Stenting	II-2-118
<i>Dylan V. Miller, MD</i>	
Valve Replacement (Including Transcatheter)	II-2-122
<i>Brandon T. Larsen, MD, PhD</i>	
Ventricular Assist Devices	II-2-128
<i>Brandon T. Larsen, MD, PhD</i>	
Thoracic Aortic Aneurysm Repair	II-2-132
<i>Billie Fyfe, MD & George P. Batsides, MD</i>	

Gastrointestinal and Hepatobiliary

Pancreas Resection	II-2-138
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	
Gastrectomy and Esophagectomy	II-2-142
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	
Bariatric Surgery	II-2-146
<i>Rachel Hudacko, MD & Jeanine Chiaffarano, DO</i>	

CNS

- Central Nervous System Tumors **III-2-150**
Roy H. Rhodes, MD, PhD
- Cerebral Aneurysm and Vascular Malformation **III-2-156**
Roy H. Rhodes, MD, PhD

PART III

Disease Process

Approach to Autopsy

SECTION 1

Transplantation

- Heart Transplant **III-1-2**
Dylan V. Miller, MD & Elizabeth H. Hammond, MD
- Lung Transplant **III-1-8**
Leslie A. Litzky, MD
- Kidney Transplant **III-1-12**
Monica P. Revelo, MD, PhD & Paisit Pauksakon, MD
- Liver Transplant **III-1-22**
Rachel Hudacko, MD & Patrick Lento, MD
- Pancreas Transplant **III-1-28**
Monica P. Revelo, MD, PhD
- Bone Marrow Transplant **III-1-32**
Dylan V. Miller, MD
- Deceased Donor Autopsy **III-1-36**
Billie Fyfe, MD

SECTION 2

Infection-Related Death

Systemic Infection/Sepsis Overview

- HIV/AIDS **III-2-38**
Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA
- Shock and Sepsis **III-2-42**
Billie Fyfe, MD & Christine Minerowicz, MD

Organ System Infection

- Bronchopneumonia **III-2-48**
Leslie A. Litzky, MD
- Infective Endocarditis **III-2-52**
Dylan V. Miller, MD
- Clostridium difficile* Enterocolitis **III-2-56**
Billie Fyfe, MD
- Viral Hepatitis **III-2-60**
Rachel Hudacko, MD & Jeanine Chiaffarano, DO

Urosepsis

III-2-64

Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA

SECTION 3

Neoplasia-Associated Death

- Neoplasia-Associated Death **III-3-68**
Billie Fyfe, MD
- Death Due to Paraneoplastic Effect **III-3-74**
Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA

SECTION 4

Other Common Hospital Death

- Chronic Obstructive Pulmonary Disease **III-4-78**
Harold Sanchez, MD, FCAP & Rebecca A. Irvine, MD, FRCPA
- Ventilator Dependent Respiratory Failure **III-4-82**
Leslie A. Litzky, MD
- Chronic Liver Failure **III-4-86**
Rachel Hudacko, MD & Jeanine Chiaffarano, DO
- Chronic Renal Failure **III-4-92**
Monica P. Revelo, MD, PhD & Paisit Pauksakon, MD
- Dementia and Neurodegenerative Disease **III-4-100**
Hasini Reddy, MD, DPhil