

Section 1

- 1. The Rise of Modern Surgery: An Overview*
- 2. Ethics and Professionalism in Surgery*
- 3. The Inflammatory Response*
- 4. Shock, Electrolytes and Fluid*
- 5. Metabolism in Surgical Patients*
- 6. Wound Healing*
- 7. Regenerative Medicine*
- 8. Critical Assessment of Surgical Outcomes and Health Services*
- 9. Safety in the Surgical Environment*

Section 2

- 10. Principles of Preoperative and Operative Surgery*
- 11. Surgical Infections and Antibiotic Use*
- 12. Surgical Complications*
- 13. Surgery in the Geriatric Patient*
- 14. Anesthesiology Principles, Pain Management, and Conscious Sedation*
- 15. Emerging Technology in Surgery: Informatics, Electronics*
- 16. Robotic Surgery*

Section 3

- 17. Management of Acute Trauma*
- 18. The Difficult Abdominal Wall*
- 19. Emergency Care of Musculoskeletal Injuries*
- 20. Burns*
- 21. Bites and Stings*
- 22. Surgical Critical Care*
- 23. Bedside Surgical Procedures*
- 24. The Surgeon's Role in Mass Casualty Incidents*

Section 4

- 25. Transplantation Immunobiology and Immunosuppression*
- 26. Liver Transplantation*
- 27. Kidney and Pancreas Transplantation*
- 28. Small Bowel Transplantation*

Section 5

29. Tumor Biology and Tumor Markers

30. Tumor Immunology and Immunotherapy

31. Melanoma and Cutaneous Malignancies

32. Soft Tissue Sarcomas

33. Bone Tumors

Section 6

34. Head and Neck

Section 7

35. Diseases of the Breast

36. Breast Reconstruction

Section 8

37. Thyroid

38. The Parathyroid Glands

39. Endocrine Pancreas

40. The Adrenal Glands

41. The Multiple Endocrine Neoplasia Syndromes

Section 9

42. Esophagus

43. Gastroesophageal Reflux Disease and Hiatal Hernia

Section 10

44. Abdominal Wall, Umbilicus, Peritoneum, Mesenteries, Omentum and Retroperitoneum

45. Hernias

46. Acute Abdomen

47. Acute Gastrointestinal Hemorrhage

48. Morbid Obesity

49. Stomach

50. Small Intestine

51. The Appendix

52. Colon and Rectum

53. Anus

54. *The Liver*

55. *Biliary System*

56. *Exocrine Pancreas*

57. *The Spleen*

Section 11

58. *Lung, Chest Wall, Pleura and Mediastinum*

59. *Congenital Heart Disease*

60. *Acquired Heart Disease: Coronary Insufficiency*

61. *Acquired Heart Disease: Valvular*

Section 12

62. *The Aorta*

63. *Peripheral Arterial Disease*

64. *Vascular Trauma*

65. *Venous Disease*

66. *The Lymphatics*

Section 13

67. *Pediatric Surgery*

68. *Neurosurgery*

69. *Plastic Surgery*

70. *Hand Surgery*

71. *Gynecologic Surgery*

72. *Surgery in the Pregnant Patient*

73. *Fetal Surgery*

74. *Urologic Surgery*