

1 Biologic Aspects of Gastrointestinal Function

1. Development of the Gastrointestinal Tract

Jaime Belkind-Gerson

2. Basics Aspects of Digestion and Absorption

Ghassan T. Wahbeh and Nicole Green

3. Bile Acid Physiology and Alterations in the Enterohepatic Circulation

James E. Heubi

4. The Gut Microbiome in Pediatrics

Gail A. M. Cresci and Jonathan E. Teitelbaum

5. Gastrointestinal Mucosal Immunology and Mechanisms of Inflammation

Simon Murch

2 Clinical Problems

6. Chronic Abdominal Pain of Childhood and Adolescence

Miguel Saps and Peter L. Lu

7. Approach to the Child with a Functional Gastrointestinal Disorder

Paul E. Hyman and Neha R. Santucci

8. Vomiting and Nausea

Jasmeet Mokha

9. Diarrhea

Peter Townsend and Melissa Fernandes

10. Colic and Gastrointestinal Gas

Sandeep K. Gupta

11. Functional Constipation and Incontinence

Marc A. Benninga

12. Failure to Thrive

Rebecca N. Cherry

13. Gastrointestinal Hemorrhage

Petar Mamula, Joel Aaron Friedlander and Benjamin Sahn

14. Obesity

Joseph Skelton and Gail Cohen

15. Eating Disorders in Children and Adolescents

Ellen S. Rom

16. Jaundice: Unconjugated Hyperbilirubinemia

Cara Mack and Glenn R. Gourley

17. Ascities

David Piccoli and Henry Lin

18. Caustic Ingestion and Foreign Bodies

Michael A. Manfredi

3 The Esophagus

19. Developmental Anatomy and Physiology of the Esophagus

Kristin Nicole Fiorino

20. Congenital Malformations of the Esophagus

Arnold G. Coran, Shaun Michael Kunisaki and Steven W. Bruch

21. Gastroesophageal Reflux

Yvan Vandenplas

22. Achalasia and Other Motor Disorders

Manu R. Sood and Diana G. Lerner,

23. Other Diseases of the Esophagus

Franziska Mohr and Katherine Baldwin

4 The Stomach

24. Developmental Anatomy and Physiology of the Stomach

Christina S. Wills

25. Congenital Anomalies and Surgical Disorders of the Stomach

Federico G. Seifarth

26. Gastritis, Gastropathy, and Ulcer Disease

Quin Y. Liu and Travis Piester

27. Helicobacter Pylori in Childhood

Séamus Hussey and Eileen Crowley

28. Gastric Motility Disorders

Carlo Di Lorenzo and Peter L. Lu

29. Bezoars

Adam G. Mezoff and Ethan Mezoff

5 The Small and Large Intestine

- 30. Anatomy and Physiology of the Small and Large Intestines***
Rose Lee and Ethan Mezoff
- 31. Maldigestion and Malabsorption***
Steven H. Erdman and Tracy R. Ediger
- 32. Protracted Diarrhea***
David Piccoli and Lindsey Albenberg
- 33. Protein-Losing Enteropathy***
David Piccoli
- 34. Celiac Disease***
Riccardo Troncone and Renata Auricchio
- 35. Short Bowel Syndrome***
Robert S. Venick
- 36. Small Bowel Transplant***
Kareem Abu Elmagd and Girlanda Raffaele
- 37. Allergic and Eosinophilic Gastrointestinal Disease***
*Chris A. Liacouras, Rajitha Devadoss Venkatesh, Jonathan E. Markowitz
and Lindsay Marie Moyer*
- 38. Infectious Diarrhea***
Mitchell B. Cohen and David Galloway
- 39. Enteric Parasites***
Dorsey M. Bass and Rachel Ruiz
- 40. Gastrointestinal Manifestations of Primary Immunodeficiency -
Gastrointestinal Complications of Secondary Immunodeficiency
Syndromes***
Athos Bousvaros and Ivan Fuss
- 41. Pediatric Polyposis Syndromes***
Warren Hyer
- 42. Crohn's Disease***
Jennifer L. Dotson and Brendan Boyle
- 43. Ulcerative Colitis in Children and Adolescents***
James F. Markowitz and Samuel Bitton
- 44. Chronic Intestinal Pseudo-Obstruction***
Hayat Mousa, Maheen Hassan and Peter L. Lu

45. Neonatal Necrotizing Enterocolitis

Ricardo J. Rodriguez and Sabine Iben

**46. Disorders of the Anorectum: Fissures, Fistulas, Prolapse, Hemorrhoids,
Tags**

Marian D. Pfefferkorn and Sharon McPheeters

47. Neoplasms of the Gastrointestinal Tract

Jacob A. Kurowski and Praveen Kumar Conjeevaram Selvakumar

48. Neoplasms of the Liver

Karen F. Murray and Hengqi (Betty) Zheng

49. Other Diseases of the Small Intestine and Colon

Orhan Atay

50. Appendicitis

Michael Gerard Caty

6 Pediatric Surgical Disorders

51. Intussusception in Infants and Children

Todd Ponsky and Sophia Abdulhai

52. Inguinal Hernias and Hydroceles

Christine Rader and Jacob Campbell

53. Meckel's Diverticulum and Other Omphalomesenteric Duct Remnants

Brendan T. Campbell and Jennifer Brewer

54. Hirschsprung's Disease

Jacob C. Langer

55. Imperforate Anus

Andrea Bischoff and Alberto Pena

56. Abnormal Rotation and Fixation of the Intestine

Thomas T. Sato and Eleanor H. Sato

57. Small and Large Bowel Stenosis and Atresias

Keith T. Oldham and Ruchi Amin

58. Newborn Abdominal Wall Defects

Jaimie D. Nathan and Stephanie Polites

59. Stomas of the Small and Large Intestine

Anthony L. Deross

7 Gastrointestinal Procedures

60. Esophagogastr Oduodenoscopy, and Related Techniques

Marsha Kay, Robert Wyllie III and Natalie Bhesania

61. Colonoscopy, Polypectomy, and Related Techniques

Marsha Kay, Robert Wyllie III and Jessica Barry

62. Endoscopic Retrograde Cholangiopancreatography

Douglas G. Adler and Atif Saleem, Mounif El-Youssef, Todd H. Baron

63. Capsule Endoscopy and Small Bowel Enteroscopy

Bradley Barth and Isabel ROJAS

64. Gastrointestinal Motility Procedures

Samuel Nurko

65. Gastrointestinal Pathology

Robert E. Petras, Thomas Plesec and Erica C. Savage

66. Liver Pathology

Thomas Plesec and Michael Cruise

8 The Liver and Bile Ducts

67. Developmental Anatomy and Physiology of the Liver and Bile Ducts

Sanjiv Harpavat

68. Neonatal hepatitis

Vicky Lee Ng and Mohit Kehar

69. Biliary Atresia and Neonatal Disorders of the Bile Ducts

Giorgina Mieli-Vergani and Nedim Hadzic

70. Pediatric Cholestatic Liver Disease with Genetic Etiology

Karan McBride Emerick and Kathleen M. Loomes

71. Mitochondrial Hepatopathies: Disorders of Fatty Acid Oxidation and the Respiratory Chain

Patrick McKiernan

72. Abnormalities of Hepatic Protein Metabolism

Fayez K. Ghishan

73. Abnormalities of Carbohydrate Metabolism and the Liver

Shikha S. Sundaram

74. Nonalcoholic Fatty Liver Disease

Ariel Feldstein

75. Acute and Chronic Hepatitis

Maureen M. Jonas and Rima Fawaz

76. Portal Hypertension

Estella Alonso and Lee M. Bass

77. Liver Failure

Suz Warner and Deidre Kelly

78. Liver Transplantation in Children

Koji Hashimoto, Bijan Eghtesad and John Fung

79. Diseases of the Gallbladder

Douglas S. Fishman and Frances Lee

9 The Pancreas

80. Pancreatic Development

Sohail Z. Husain and John Eisses

81. Cystic Fibrosis and Congenital Anomalies of the Exocrine Pancreas

Joel R. Rosh, Sarah Shrager Lusman and Nadia Ovchinsky

82. Pancreatitis

Maisam Abu-El-Hajja and David Vitale

83. Total Pancreatectomy with Autoislet Transplantation, and Pancreatic Allotransplantation

R. Matthew Walsh

84. Secretory Neoplasms of the Pancreas

Allan Siperstein

85. Infant and Toddler Nutrition

Susan S. Baker and Robert D. Baker

10 Nutrition

86. Nutritional Assessment

Kate A. Samela

87. Tubes for Enteric Access

Donald E. George and Sina Ogholikhan

88. Parenteral Nutrition

Maria R. Mascarenhas and Jennifer Panganiban

89. Enteral Nutrition

Neal S. LeLeiko and Carolina S. Cerezo

90. Management of Diarrhea

David Devadason

91. Effects of Digestive Diseases on Bone Metabolism

Francisco A. Sylvester

92. Nutrition and Feeding for Children with Developmental Disabilities

Ryann Mayer and Donna Zeiter

93. Fecal Transplant

Zev Davidovics

94. Questions

Eugene Vortia