
Contents

Contributors	ix
Preface	xiii
PART I PARENTERAL NUTRITION: AN OVERVIEW	1
1 History of Parenteral Nutrition <i>Marinos Elia</i>	3
2 Home Artificial Nutrition in Europe <i>André Van Gossum</i>	14
3 Home Parenteral Nutrition in the USA <i>Darlene G. Kelly</i>	25
4 Home Parenteral Nutrition in Canada: An Update <i>Daniela Adjemian, Kursheed N. Jeejeebhoy and Johanne P. Allard</i>	31
5 Home Parenteral Nutrition in Australia and New Zealand <i>Lyn Gillanders and Patrick Ball</i>	41
6 Home Parenteral Nutrition in China <i>Xinying Wang</i>	51
7 Home Parenteral Nutrition in Japan <i>Akihiro Ito, Takashi Higashiguchi and Harumasa Oyanagi</i>	54

PART II CLINICAL CONDITIONS	65
8 Transition from Acute to Chronic Intestinal Failure <i>Simon Lal and Jon Shaffer</i>	67
9 Short Bowel Syndrome <i>Alastair Forbes</i>	70
10 Gastrointestinal Fistulae <i>Geert Wanten and Jon Shaffer</i>	82
11 Chronic Intestinal Pseudo-obstruction <i>Francisca Joly, Vanessa Bon Djemah, Sabrina Layec, Olivier Corcos and Yoram Bouhnik</i>	92
12 Radiation Enteropathy <i>Federico Bozzetti</i>	107
13 Home Parenteral Nutrition in Cancer Patients <i>Federico Bozzetti</i>	118
14 Rare Underlying Diseases and Indications <i>André Van Gossum, Marianna Arvanitakis and Ezra Steiger</i>	138
15 Home Parenteral Nutrition in the Elderly <i>Xavier Hébuterne and Stéphane M. Schneider</i>	143
PART III COMPLICATIONS	153
16 Home Parenteral Nutrition-associated Liver Disease <i>Vanessa Bon Djemah, Virginie Colomb, Olivier Corcos, Bernard Messing and Francisca Joly</i>	155
17 Metabolic Bone Disease in Long-term Home Parenteral Nutrition in Adults <i>Loris Pironi and Federica Agostini</i>	171
18 Metabolic and Other Rare Complications of Home Parenteral Nutrition <i>Alan L. Buchman</i>	185
19 Venous Access-related Complications: Infections <i>Geert Wanten and Michael Staun</i>	196
20 Non-septic Catheter-related Complications <i>Cristina Cuerda and Michael Staun</i>	205

PART IV PRACTICAL ISSUES	217
21 Adult Fluid and Nutritional Requirements for Home Parenteral Nutrition <i>Beth Rye and Jeremy Nightingale</i>	219
22 Carbohydrates <i>Luc Tappy</i>	229
23 Use of Lipids in Home Parenteral Nutrition <i>Benoît Dupont, Marie-Astrid Piquet, Marietta Musikas, Corinne Joubert and Jean-Marie Reimund</i>	239
24 Amino Acids, Protein and the Gut <i>Peter B. Soeters and Marcel C.G. van de Poll</i>	260
25 Micronutrients in Home Parenteral Nutrition <i>Alan Shenkin</i>	286
26 Choice of Venous Access in Home Parenteral Nutrition <i>Mauro Pittiruti and Paolo Cotogni</i>	301
27 Venous Access Care in Home Parenteral Nutrition <i>Giancarlo Scoppettuolo and Mauro Pittiruti</i>	308
28 Teaching the Home Parenteral Nutrition Patient <i>Kurt Boeykens</i>	318
29 Preparation and Provision of Home Parenteral Nutrition Solutions <i>Pilar Gomis</i>	325
30 Administration of Home Parenteral Nutrition <i>Asuncion Ballarin, Viviane Lievin and André Van Gossun</i>	335
31 Monitoring Patients on Home Parenteral Nutrition <i>Michael Staun and Loris Pironi</i>	341
32 Dietary Care in Home Parenteral Nutrition and Intestinal Failure <i>Cora E. Jonkers-Schuitema</i>	349
PART V PAEDIATRICS	361
33 Home Parenteral Nutrition in Children <i>Virginie Colomb, Cécile Lambe and Olivier Goulet</i>	363

34 Home Parenteral Nutrition: Quality of Life and Psychosocial Issues	381
<i>Janet P. Baxter and Jose Manuel Moreno Villares</i>	
PART VI MISCELLANEOUS ASPECTS OF HOME PARENTERAL NUTRITION	395
35 Ethical and Legal Aspects of Home Parenteral Nutrition	397
<i>Federico Bozzetti and Simon Allison</i>	
36 Surgical Alternatives to Intestinal Transplantation in Patients with Short Bowel Syndrome	406
<i>Laura Beyer-Berjot, Léon Maggiori, Francisca Joly, Olivier Corcos, Bernard Messing and Yves Panis</i>	
37 The Use of Hormonal Factors to Promote Intestinal Function in Short Bowel Syndrome	419
<i>Palle B. Jeppesen</i>	
38 Indications for Intestinal Transplantation	434
<i>Loris Pironi</i>	
39 Intestinal Transplantation	443
<i>Antonio D. Pinna, Loris Pironi, Augusto Lauro and Andreas G. Tzakis</i>	
40 Home Parenteral Nutrition – Perspectives	458
<i>André Van Gossum</i>	
Index	461