Contents

I  Risk for the Spermatic Cord

1  Are There Adverse Effects of Herniorrhaphy Techniques on Testicular Perfusion? 3
2  The Effects of Mesh Bioprosthesis on the Spermatic Cord Structures in a Rat Model 13
3  Damage to the Spermatic Cord by the Lichtenstein Procedure in a Pig Model—Preliminary Results 21
4  Influence of Prosthetic Implants on Male Fertility in Rabbits and Rats 29
5  The Effects of a Mesh Bioprosthesis on the Spermatic Cord Structures 39
6  Influence of Prosthetic Implants on Male Fertility in Rats 43
7  What Can We Do To Decrease the Risk of Vas Deferens Injury due to Inguinal Hernioplasty? 49
8  The Long-Term Effect on Testicular Function of a Mesh Bioprosthesis Used for Inguinal Hernia Repair 57
9  Reoperation Following Lichtenstein Repair: What Do Vas and Nerves Look Like? 65
10  Damage to the Spermatic Cord from Groin Herniorrhaphy: A Review 71

II  Risk for Infection

11  Mesh Infection Following Hernia Repair: A Frequent Problem? 79
12  Patient Factors as a Major Determinant of Wound Outcome and Infection After Surgery 87
13  Mesh-Related Infections After Hernia Repair 97
14  Human Acellular Dermal Matrix for Ventral Hernia Repair in the Compromised Surgical Field 103
15  Fate of the Inguinal Hernia Following Removal of Infected Prosthetic Mesh 113
16  Mesh Infection—Therapeutic Options 119
17  Does Antibiotic Prophylaxis Prevent the Occurrence of Wound Infection After Groin Hernia Surgery? 125
18  Infection Control in a Hernia Clinic: 24-Year Results of Aseptic and Antiseptic Measure Implementation in 4,620 «Clean Cases» Based on Up-To-Date Microbiological Research 135
19  Components Separation Technique: Pros and Cons 143

III  Risk for Pain

20  Self-Assessment of Discomfort and Pain after Inguinal Hernia Repair: A Reflection of Both Individual Pain Propensity and Surgical Strategy 155
21  Chronic Pain After Inguinal Hernia Repair 163
22  What Do We Know About the Pathophysiology and Pathology of Neuropathic Pain? 169
23  Surgical Trauma of Nerves—Causes of Neuropathic Pain, Classification, and Options in Surgical Therapy 177
24  Risks for Pain—Neuropathic Pain: How Should We Handle the Nerves? 185
25  What To Consider as Clinicians About Chronic Postoperative Pain and Inguinal Herniorrhaphy 191
26  Risk Factors for Chronic Pain After Groin Hernia Surgery 199
27  Ischemic Inflammatory Response Syndrome as an Alternative Explanation for Postherniorrhaphy Pain 207
28  Postoperative CRPS in Inguinal Hernia Patients 213
29  Chronic Pain After Open Mesh Repair of Incisional Hernia 221
30 Clinical Results After Open Mesh Repair ........227
31 Acute and Chronic Pain After Laparoscopic Incisional Hernia Repair ..................227
32 Effect of Nerve Identification on the Rate of Postoperative Chronic Pain Following Inguinal Hernia Surgery ..................239
33 Discomfort 5 Years After Laparoscopic and Shouldice Inguinal Hernia Repair: A Report from the SMIL Study Group ............245
34 Recurrence or Complication: The Lesser of Two Evils? A Review of Patient-Reported Outcomes from the VA Hernia Trial ............251
35 Chronic Pain After Inguinal Hernia Repair: The Choice of Prosthesis Outweighs That of Technique ............257
36 The Effect of Polypropylene Mesh on the Ilioinguinal Nerve in Open Mesh Repair of Groin Hernia ..................265
37 Lightweight Macroporous Mesh vs. Standard Polypropylene Mesh in Lichtenstein Hernioplasty ..................275
38 Does the Choice of Prosthetic Mesh Type Make a Difference in Postherniorrhaphy Groin Pain? ..................279
39 New Understanding of the Causes and Surgical Treatment of Postherniorrhaphy Inguinodynia and Orchialgia ..................287
40 Surgery for Chronic Inguinal Pain: Neurectomy, Mesh Explantation, or Both? ............293
41 Results of Tailored Therapy for Patients with Chronic Inguinal Pain ..................299

42 Adhesion as a Chronic Inflammatory Problem? Risk for Adhesions, Migration, and Erosions? ..................305
43 Biological Tissue Graft: Present Status ..................317
44 IPOM Results of 344 Consecutive Patients with a PVDF-Derived Prosthesis ..................323
45 Pooled Data Analysis of Laparoscopic vs. Open Ventral Hernia Repair: 14 Years of Patient Data Accrual ..................331
46 Tissue Ingrowth, Adhesion, and Mesh Contraction ..................345
47 Effect of Different Mesh Materials on Adhesion Formation ..................353
48 Tissue Ingrowth and Laparoscopic Ventral Hernia Mesh Materials: An Updated Review of the Literature ..................365
49 Porosity and Adhesion in an IPOM Model ..................375
50 Benefit of Lightweight and/or Titanium Meshes? ..................381
51 ePTFE Prostheses and Modifications ..................393
52 The Role of Stem Cells in Abdominal Wall Repair ..................401

53 Safety and Durability of Prosthetic Repair of the Hiatal Hernia: Lessons Learned from a 15-Year Experience ..................413
54 Mesh Migration into the Esophageal Wall After Mesh Hiatoplasty ..................421
55 Complications After Gastric Banding Results in Germany ..................429
56 Alloplastic Implants for the Treatment of Stress Urinary Incontinence and Pelvic Organ Prolapse ..................439
57 Prophylactic IPOM Mesh To Prevent Parastomal Hernias ..................445
58 Laparoscopic Parastomal Hernia Repair: Pitfalls and Complications ..................451
59 Concept of Visible Mesh and Possibilities for Analysis of Mesh Migration and Shrinkage ..................457

60 Who Has the Major Role in Hernia Surgery: The Surgeon or the Material? ..................463
VII Pro and Contra

62 In Support of a Standard Technique for Inguinal Hernia Repair .................. 475
63 In Support of Individual Selection of Technique as Related to the Patient–Improvement by Better Selection of Patients Who Can Be Offered a Less Risky Technique: Groin Hernia .................. 479
64 In Support of Standard Procedure in Abdominal Hernia Repair ............... 485
65 In Support of Individualized Procedures in Abdominal Wall Hernia Repair ....... 493
66 In Support of Standard Procedure in Hiatal Hernia Repair ...................... 503
67 Strategy To Improve the Results? In Support of Individualized Procedures in Hiatal Hernia Repair ...................... 513
68 Questionnaire ......................... 521

Subject Index ......................... 525
Hernia Repair Sequelae
Schumpelick, V.; Fitzgibbons, R.J. (Eds.)
2010, XIII, 529 p., Hardcover
ISBN: 978-3-642-04552-3