

Contents

Introduction	1
Anatomical Review	3
Anatomical Position of the Breast	4
References.....	7
1 Standard Breast Conserving Surgery	9
Incisions for Tumours Not Requiring Oncoplastic Surgery	9
Conservative Treatment	9
Wide Local Excisions	9
Wide Local Excisions Without Skin Excision	9
Superior Quadrant Tumours.....	10
Tumours of the Inferior Quadrants	11
Wide Local Excision Requiring Skin Resection.....	11
Axillary Incisions	11
Axillary Dissection	11
Sentinel Node Biopsy	12
Nonconservative Treatment	12
Mastectomy.....	12
Sentinel Nodes	14
After Previous Plastic or Breast Surgery	14
History of Augmentation and Feasibility of SLNB	14
Influence on Lymphatic Drainage of the Axillary Route for Implant Insertion	14
Prior Tumourectomy in Sentinel Node Identification and False-Negative Rate	14
Previous Breast Reduction Associated with Periareolar Incisions and NAC Repositioning.....	15
SLNB During an Oncoplastic Procedure.....	15
References.....	15
2 Oncoplastic Breast Surgery	17
Breast-Conserving Surgery for Central Tumours: “NACectomies”	17
Introduction.....	17
Periareolar Technique	17
Horizontal Technique.....	17

Mammoplasty-Associated Techniques.....	17
Discussion	18
Conclusion	20
Plastic Surgical Techniques in Breast Cancer Surgery	
(Oncoplastic Breast Surgery).....	20
Introduction.....	20
Oncoplastic Breast Surgery Techniques	21
Superior-Pedicle, Inverted-T Mammoplasty	21
Vertical-Scar Mammoplasty.....	24
J- and L-Mammoplasty	24
Inferior-Pedicle Inverted-T Mammoplasty.....	26
Periareolar Mammoplasty	31
Lateral Mammoplasty	33
Omega Mammoplasty	35
Medial Mammoplasty	37
Inferior Mammary Fold (IMF) Mammoplasty.....	39
Review of Oncoplastic Breast Surgery	40
Discussion	41
Conclusion	41
References.....	41
3 Breast Reconstruction: Immediate and Delayed.....	43
Prostheses and Expanders	43
Introduction.....	43
Types of Prostheses	43
Surgical Techniques	45
Immediate Breast Reconstruction (IBR).....	45
Delayed Breast Reconstruction (DBR).....	45
Complications	52
Surveillance and Results	53
Expanders.....	54
Complications	54
Conclusion	54
Latissimus Dorsi Flap	59
Introduction.....	59
Anatomy.....	59
Autologous Latissimus Dorsi Flap.....	59
Latissimus Dorsi Flap with Prosthesis	62
Special Cases	62
Complications	65
Conclusion	66
Transverse Rectus Abdominis	
Musculocutaneous (TRAM) Flap	71
Introduction.....	71
Anatomical Review	71
Operative Techniques.....	72
Other Techniques	79
Discussion	79
Conclusion	81

FreeFlaps.....	81
Introduction.....	81
Complications.....	88
References.....	88
4 Particular Cases.....	91
Omentoplasty or Kiricuta's Flap.....	91
Conclusion.....	92
Local Fasciocutaneous Flaps.....	92
Holmström Flap.....	92
Lateral Thoracodorsal Flap.....	94
The San Venero.....	94
References.....	94
5 Aesthetic Sequelae of Breast-Conserving Therapy (ASBCT).....	95
Introduction.....	95
Classification.....	95
Grade1.....	95
Grade2.....	95
Grade3.....	99
Grade4.....	101
Grade5.....	101
Conclusion.....	106
References.....	106
6 Second-Stage Surgery.....	107
Position and Form of the NAC.....	107
Areolar Reconstruction.....	108
Tattooing.....	108
SkinGraft.....	108
Nipple Reconstruction.....	108
Hemi-nippleGraft.....	108
"FFlap".....	109
"Z Flap".....	111
Follow Up.....	111
Other Reconstructive Techniques.....	112
Flap Techniques.....	112
Non-nipple Graft Techniques.....	115
Conclusion.....	116
Symmetrising Surgery.....	116
Symmetrisation by Prosthesis.....	116
Augmentation–Mastopexy.....	116
BreastReduction.....	116
When Should Symmetrisation be Performed?.....	117
References.....	117

7 Lipomodelage and Breast Surgery	119
Historical Background	119
Technique	119
Fat Harvesting	119
Fat Preparation	121
Adipocyte Reinjection	121
Postoperatively	121
Discussion	121
Volume Augmentation in the Autologous Flap-Reconstructed Breast	121
Correction of Localised Deformities Following Either Implant-Based Reconstruction or Breast Conserving Therapy (ASBCT Grade 1)	122
Complete Autologous Fat Transfer for Reconstruction of the Small Breast	123
Conclusion	124
References	124
8 Prophylactic Surgery	125
References	126
9 Multidisciplinarity	127
Radiotherapy After Breast Reconstruction	127
Introduction	127
Radiotherapy After Implant-Based Reconstruction	127
Radiotherapy After Musculocutaneous Flap Reconstruction	128
Conclusion	128
Reconstruction and Medical Treatments	129
Cytotoxic Chemotherapy	129
Targeted Therapies	130
Psycho-oncological Aspects	131
Introduction	131
Psychological Experience of Cancer and Breast Surgery	131
Mastectomy	132
Reconstruction	132
After Reconstruction	134
Impact of Reconstructive Surgery	134
Prophylactic Surgery in Women at Genetic Risk	135
Socio-emotional Environment of the Patient	136
Practical Clinical Recommendations	136
Prior to Surgery	136
During Hospitalisation	137
Postoperatively	138
Postoperatively and Beyond	138
Conclusion	139
References	139

10 Prophylactic Mastectomy and BRCA1 or BRCA2 Gene Mutations	143
Prophylactic Mastectomy: Principles and Efficacy of Prevention.....	143
Management of Women Carrying BRCA1/2 Mutations Without Cancer	144
Diagnosis of a Breast Cancer in a Woman with BRCA1/2 Mutation.....	144
Discovery of BRCA1/2 Mutation After Diagnosis of Breast Cancer.....	145
High Family Risk Without Identified Mutation	145
Conclusion	145
References.....	145
Glossary	147
Index	149