Index

Page numbers in italics refer to illustrations

A

abdominal advancement flap 86, 91–92
abdominal muscles 14
aplasia 27
pectoralis muscle 72, 79–81
areolar enlargement 54
asymmetric 71
surgical correction 73–74
areolar reconstruction techniques 190
full-thickness skin grafting 190
tattooing 190, 191, 279
areolar-sparing mastectomy 251
asymmetry 30, 69–72, 70–71
Poland syndrome 80–82
atrophy, involutional 32–34
augmentation mammoplasty 15–35
breast asymmetry 70–71
drainage 20
implant choice 16–17
implant position 15, 19
subglandular implantation 19, 29, 31–34
subpectoral implantation 19, 27–30
incision choice 17–18
axillary approach 18, 26
comparison of approaches 18
inframammary approach 18, 21–25, 27–30
periareolar approach 17–18
secondary procedures 20
Poland syndrome 79, 80–81
ptosis 20, 31–34
temporary implant sizers 19
tuberous breast deformity 76
wound closure 19
see also implants
augmentation mastopexy 20, 33–34
autologous reconstruction 86
immediate breast reconstruction 268, 269–279
prophylactic subcutaneous mastectomy 200, 209–210
axillary approach 18, 26
axillary lymph-node dissection 227–230
surgical technique 228–230, 228–229

B

blood supply 4, 5
see also epigastric vessels; internal thoracic vessels; perforating vessels; thoracodorsal vessels
breast
anatomy 3–6, 220
asymmetry 30, 69–72, 70–71
Poland syndrome 80–82
blood supply 4, 5
ideal dimensions 17, 37
lymphatic system 4–5, 6
nerve supply 4, 6
structure 4
breast cancer
adjuvant systemic therapy 219
BRCA mutations 199
ductal carcinoma 217, 253
implants and 8–9
radiotherapy 219, 250
see also breast-conserving therapy; delayed breast reconstruction; immediate breast reconstruction; mastectomy
breast reconstruction see delayed breast reconstruction; immediate breast reconstruction
breast-conserving therapy 219–247
axillary lymph-node dissection 227–230
surgical technique 228–230, 228–229
contraindications 219
correcting a poor cosmetic result 241, 246–247
guidelines 230–231
indicators 219
mastectomy and 233–234, 236–237, 241
plastic surgery measures 230
recontouring using a latissimus dorsi flap 241, 242–245, 247
reduction mammoplasty in 231, 231–240
sentinel lymph-node dissection 230
surgical technique 220, 221–226

C

capsular contracture 8
chest wall deformities 76
chest wall muscles 87

congenital breast deformities
classification 69
see also specific deformities
Cooper ligaments 214, 220

d

depth inferior epigastric artery see epigastric vessels
depth inferior epigastric perforator (DIEP) flap 86, 119–126, 157–166
immediate breast reconstruction 277, 278
indications 121
preoperative preparation 125
principles 120–121
prophylactic subcutaneous mastectomy 200
surgical technique 158–160, 161–166
venous congestion management 160
see also lower abdominal flap
delayed breast reconstruction 85–188
bilateral 187, 188
choice of procedure 85–86
implants/expanders 87–99, 97–99
expander exchange and contour reconstruction 93–94, 95–97
indications 87–88
postoperative expander inflation 93
surgical technique 88–93, 89–92
latissimus dorsi flap 100–110, 114–118
indications 102
preoperative planning 103–105
surgical technique 105–110, 106–108, 111–112
superior gluteal artery perforator (SGAP) flap 167–178
postoperative care 171
preoperative preparation 167, 168
surgical technique 170–171, 172–178
timing 85
TRAM/DIEP flap 119–166
contraindications 122
historical development 121
indications 121
preoperative preparation 122–126, 125
principles 120–121
surgical technique 126–157
transverse myocutaneous gracilis (TMG)
anatomic considerations 257
expander implants 257–258
in skin-sparing mastectomy 261,
262–264
implants 7–11
augmentation mammoplasty
choice of implant 16–17
implant position 15
delayed breast reconstruction 85–86,
87–99, 95–99
indications 87–88
inframammary approach 18,
19–20, 21
perforating vessels 125, 157, 158
quantitative evaluation 133
transverse rectus abdominis muscle (TRAM) flap
lymphatic system 4–5, 6, 227
Leis classification of lymphatic vessels 228
see also axillary lymph-node dissection;
sentinel lymph-node dissection

M
McKissock reduction mammoplasty technique 55, 58
mammaplasty see augmentation mammaplasty;
reduction mammoplasty
mammary gland 6, 212, 221
mastectomy 85
comparison of skin resections 252
defect assessment 103
modified radical mastectomy 211–217, 250, 251
indications 211
surgical technique 211, 213–217, 252
nipple-sparing mastectomy 251, 255–255, 275, 277
prophylactic subcutaneous mastectomy 190–210
autologous tissue reconstruction 200, 209–210
implant reconstruction 200
indications 199
skin resection technique 206–208
surgical technique 199–200, 201–210
size of defect 88
skin-sparing mastectomy 250–251, 252
immediate breast reconstruction 261,
262–264, 268
periareolar 251, 252, 253, 262–264
with nipple resection and areolar preservation 251
see also delayed breast reconstruction;
immediate breast reconstruction
mastopexy 37–38, 44–48, 53, 54, 156
augmentation 20, 33–34
breast asymmetry 70
breast-conserving therapy and 233–234, 236–237, 241
subsequent lowering of the breasts 50
microcalcifications 62
modified radical mastectomy see mastectomy
musculofascial turnover flap 86

N
nerve supply 4, 6
nipple reconstruction techniques 189–190
full-thickness grafting from the labia minora 189–190
grafting from the contralateral breast 189, 195, 279
local flaps 189, 191–193
nipple–areolar complex
reconstruction 156, 165, 166, 189–190, 191–195, 279
venous congestion 55
nipple-sparing mastectomy 251, 255–255, 275, 277

P
pectoral muscles 14
perforating vessels 125, 157, 158
periareolar approach 17–18
periareolar skin-sparing mastectomy 251, 252, 253
immediate implant reconstruction 262–264
Poland syndrome 72, 79–82
prophylactic subcutaneous mastectomy see mastectomy
ptosis
Lejour reduction 51
mastectomy 44–48, 53, 54, 155–156
augmentation mastectomy 20, 31–34
breast-conserving therapy and 233–234, 237
T-scar reduction 65

Q
quadrantectomy 62–63, 235

R
radiotherapy 219, 250
rectus abdominis muscles 119, 120
harvesting 145
vascular supply 119, 123
see also transverse rectus abdominis muscle (TRAM) flap
reduction mammaplasty 37–38, 266
in breast-conserving surgery 231, 231–240, 246
Lejour technique 38–49, 51, 52, 246
de-epithelialization 41
infiltration 41
liposuction 41
surgical marking 38, 39–40
surgical procedure 41–49, 42–48
T-scar technique 55, 56–65, 246
preventing lowering of the inframammary fold 55
surgical marking 55, 56–57
venous congestion of the nipple–areola complex 55
Rubens flap 121

S
scars
axillary 35
inframammary fold 35
latissimus dorsi myocutaneous flap donor-site scars 276
sentinel lymph-node dissection (SLND) 230
seroma 8
silicone implants 7, 10–11
breast reconstruction 85
safety 9
see also implants
skin-sparing mastectomy 250–251
immediate breast reconstruction using implant 261, 262–264
using skin or myocutaneous flap 268
periareolar 251
subcutaneous glandular advancement flap 220, 222, 224, 225–226
subcutaneous mastectomy see mastectomy
subglandular implantation 19, 29, 31–34, 71
subpectoral implantation 19, 27–30, 70
superior gluteal artery perforator (SGAP) flap 86, 167–178
anatomy 167, 167
postoperative care 171
preoperative preparation 167, 168
marking 168, 169
surgical technique 170–171, 172–178
flap harvesting 170
flap shaping 171

T
T-scar reduction technique see reduction mammaplasty
tattooing, areolar reconstruction 190, 191, 279
thoracodorsal vessels 3, 5
thoracodorsal vessels 101, 140–141
dissection of 141
tissue expansion 87, 257
see also expander implants
transverse myocutaneous gracilis (TMG) flap 86, 179–186
anatomy 179–180, 179
patient selection 179
preoperative marking 180, 181
surgical technique 180, 182–186
transverse rectus abdominis muscle (TRAM) flap 86, 119–166
anatomy 119, 120, 123, 127, 144
bilateral reconstruction 187, 188
historical development 121
immediate breast reconstruction 253–254, 279
indications 121
Poland syndrome 82
postoperative care 132, 157
preoperative preparation 122–126, 125
principles 120–121
prophylactic subcutaneous mastectomy 200, 209–210
surgical technique 126–157
microvascular free TRAM flaps 132–157, 142–143, 146–156
unipedicled rectus flaps 126–132, 127, 129–131, 133–139
tuberous breast deformity 69, 72, 75–76, 77
areolar hypertrophy correction 73–74
Muti and Ribeiro surgical technique 78

V
venous congestion of the nipple–areolar complex 55

W
wound closure 19