

# Contents

## Part I Fundamentals

<b>1 History of Nasal Reconstruction</b>	3
Early Nasal Reconstruction	3
The Italian Method	3
The Indian Method	4
Internal Lining	5
Nasal Framework	9
Skin Coverage	9
Recent Developments	10
Conclusion	10
References	11
<b>2 Anatomic Considerations</b>	13
Topographic Analysis	13
Aesthetic Units	13
External Nasal Anatomy	14
Skin	14
Subcutaneous Layer	15
Muscles	15
External Blood Supply	16
External Sensory Nerve Supply	17
Nasal Skeletal Anatomy	17
Nasal Tip	17
Cartilaginous Dorsum	19
Bony Dorsum	19
Internal Nasal Anatomy	19
Nasal Cavities	19
Septum	20
Lateral Nasal Passage	21
Nasal Valve	21
References	22
<b>3 Preparation of the Patient</b>	23
Preoperative Consultation	23
Photography	25
Anesthesia	26
Local Anesthesia	26
Postoperative Care and Supplies	27
Hospitalization	28

<b>4</b>	<b>Internal Lining</b> . . . . .	29
	Primary Closure . . . . .	29
	Full-Thickness Skin Grafts . . . . .	30
	Bipedicle Vestibular Skin Advancement Flap . . . . .	31
	Septal Mucoperichondrial Hinge Flap . . . . .	33
	Composite Septal Chondromucosal Pivotal Flap . . . . .	38
	Turbinate Flaps . . . . .	44
	Forehead Flap . . . . .	45
	Microsurgical Flaps . . . . .	45
	References . . . . .	46
<b>5</b>	<b>Structural Support</b> . . . . .	47
	Restorative Grafts . . . . .	47
	Upper Nasal Vault . . . . .	47
	Middle Nasal Vault . . . . .	48
	Lower Nasal Vault . . . . .	50
	Total Nasal Defect . . . . .	50
	Support Grafts . . . . .	50
	Rim, Batten, and Strut Grafts . . . . .	50
	Columellar Struts . . . . .	54
	Spreader Grafts . . . . .	54
	Contour Grafts . . . . .	58
	Tip Grafts . . . . .	58
	Onlay Grafts . . . . .	60
	References . . . . .	63
<b>6</b>	<b>External Covering</b> . . . . .	65
	Preparation of the Defect . . . . .	67
	Primary Closure . . . . .	70
	Healing by Secondary Intention . . . . .	71
	Delayed Skin Grafting . . . . .	71
	Skin Grafts . . . . .	72
	Perichondrocutaneous Graft . . . . .	74
	Composite Graft . . . . .	75
	Nasal Cutaneous Flaps . . . . .	75
	Interpolated Melolabial Flap . . . . .	82
	Interpolated Paramedian Forehead Flap . . . . .	83
	Radial Forearm Microsurgical Flap . . . . .	84
	References . . . . .	100

## Part II Technique

<b>7</b>	<b>Cartilage Grafts</b> . . . . .	103
	Auricular Cartilage Graft . . . . .	103
	Technique . . . . .	103
	Septal Cartilage Graft . . . . .	107
	Technique . . . . .	107
	Rib Cartilage Graft . . . . .	108
	Technique . . . . .	108
	Alar Cartilage Graft . . . . .	110
	Technique . . . . .	111
	Sculpturing Cartilage Grafts . . . . .	111
	Graft Fixation . . . . .	111
	References . . . . .	120

<b>8 Bone Grafts</b>	121
Cranial Bone Graft	121
Anatomy	121
Harvesting Technique	121
Complications	124
Rib Bone Graft	124
Septal Bone Graft	128
References	131
<b>9 Skin and Composite Grafts</b>	133
Skin Grafts	133
Split-Thickness Skin Graft	134
Full-Thickness Skin Graft	134
Technique	140
Composite Chondrocutaneous Grafts	149
Technique	152
Other Composite Grafts	154
References	161
<b>10 Nasal Cutaneous Flaps</b>	163
Technique	171
Single Lobe Transposition Flap	172
Rotation Flap	175
V-to-Y Subcutaneous Tissue Pedicle Island Advancement Flap	178
Dorsal Nasal Flaps	182
Bilobe Flap	189
Complications	197
References	209
<b>11 Intranasal Flaps</b>	211
Skin Grafts	211
Bipedicle Vestibular Skin Advancement Flap	211
Ipsilateral Septal Mucoperichondrial Hinge Flap	214
Contralateral Caudally Based Septal Mucoperichondrial Hinge Flap	232
Bilateral Caudally Based Septal Mucoperichondrial Hinge Flaps	235
Contralateral Dorsal Septal Mucoperichondrial Hinge Flap	236
Septal Composite Chondromucosal Pivotal Flap for the Tip and Columella	239
Septal Composite Chondromucosal Pivotal Flap for the Dorsum	243
Septal Composite Chondromucosal Pivotal Flap for the Tip, Columella, and Dorsum	246
Turbinates Mucoperiosteal Flap	247
Postoperative Nasal Care	247
References	249
<b>12 Subcutaneous Tissue Pedicle Hinge Cheek Flaps</b>	251
Lateral Alar Defect	253
Nasal Sidewall Defect	258
Combined Ala and Sidewall Defect	262
Complications	263
References	264

<b>13 Interpolated Melolabial Flaps: Reconstruction of Alar and Columellar Units</b>	265
Reconstruction of the Ala	265
Technique: Interpolated Subcutaneous Tissue Pedicle Cheek Flap	268
Technique: Interpolated Cutaneous Pedicle Cheek Flap	280
Cheek Versus Forehead Flap	288
Complications	290
Reconstruction of the Columella	291
Technique: Interpolated Subcutaneous Tissue Pedicle Cheek Flap	295
References	306
<b>14 Interpolated Paramedian Forehead Flaps</b>	307
Paramedian Forehead Flap	309
Surgical Technique	315
Special Case	336
The Paramedian Forehead Flap as a Lining Flap	336
Forehead Expansion	340
Complications	347
Advantages	348
References	360
<b>15 Refinement Techniques</b>	361
Contouring of Flaps	361
Interpolated Paramedian Forehead Flaps	361
Interpolated Cheek Flaps	362
Contouring Procedure	369
Contouring Nasal Cutaneous Flaps	377
Correction of Depressed Contour Deformities	377
Alar Base Reduction	385
Correction of Alar Notching	385
Hair Removal	388
Concurrent Rhinoplasty	393
Scar Revision	397
Ideal Scar	397
Timing of Scar Revision	399
Selection of Surgical Technique	399
Scar Excision	399
Z-plasty	399
Wound Care	402
Dermabrasion	403
Laser Resurfacing	408
Eyebrow Repositioning	409
Correcting Facial Asymmetry	412
References	412
<b>16 Complications and Management</b>	413
Hemorrhage	413
Infection	413
Partial-Thickness Flap Necrosis	414
Full-Thickness Flap Necrosis	414
Skin Grafts	418
Alar Retraction	423
Nasal Obstruction	424
Scarring	427
Cutaneous Changes	432
Techniques and Judgment Errors	439

**Part III Representative Cases**

<b>17 Reconstruction of Lateral Tip: Two Methods of Repair</b> .....	459
First Case .....	459
Second Case .....	460
Discussion .....	463
<b>18 Reconstruction of Central Tip: Three Methods of Repair</b> .....	467
First Case .....	467
Second Case .....	467
Third Case .....	468
Discussion .....	468
<b>19 Reconstruction of Tip, Dorsum, Sidewalls, and Ala</b> .....	473
Discussion .....	475
<b>20 Sequential Interpolated Paramedian Forehead Flaps</b> .....	481
Discussion .....	484
Reference .....	486
<b>21 Reconstruction of Tip, Ala, and Caudal Sidewall: Two Concurrent Defects – Two Methods of Repair</b> .....	487
Discussion .....	489
<b>22 Reconstruction of Nasal Facet, Ala, and Caudal Sidewall: Three Consecutive Defects</b> .....	493
Discussion .....	496
<b>23 Reconstruction of Lateral Tip and Ala</b> .....	507
Discussion .....	510
Reference .....	513
<b>24 Bilateral Interpolated Paramedian Forehead Flaps</b> .....	515
Discussion .....	518
<b>25 Reconstruction of Nasal Sidewall and Dorsum</b> .....	521
Discussion .....	525
<b>26 Reconstruction of Ala, Cheek, and Upper Lip</b> .....	527
Discussion .....	529
Reference .....	531
<b>27 Reconstruction of Hemi-Tip and Ala with Single Interpolated Paramedian Forehead Flap for Lining and Cover</b> .....	533
Discussion .....	543
<b>28 Reconstruction of Tip, Columella, and Ala</b> .....	547
Discussion .....	554
<b>29 Near-Total Nasal Reconstruction</b> .....	559
Discussion .....	565
<b>30 Reconstruction of Nasal Dorsum, Sidewall, Cheek, and Medial Orbit</b> .....	569
Discussion .....	573
<b>Index</b> .....	577



<http://www.springer.com/978-0-387-89027-2>

Principles of Nasal Reconstruction

Baker, S.R.

2011, XV, 588 p., Hardcover

ISBN: 978-0-387-89027-2