

Note: Page numbers followed by f and t denotes figure and table respectively.

A	Cheek flattening, 1f, 2f
Advanced dermal filler procedures, 7–8	Chin augmentation, with CaHA, 91–97
chin augmentation with CaHA as, 91–97	anatomy related to, 91
dermal filler products for, 7–8	square, 92f
injection techniques for, 8	triangular chin, 92f
treatment areas for, 9t	anesthesia for, 94
Aesthetic consultation, 16	equipment for, 93
Aesthetic Intake Form, 16, 161–162	overview of, 93, 93f
American Society for Aesthetic Plastic Surgery, 5, 9	before and after dermal filler
Anesthesia, 29–46. See also specific treatment area	treatment, 91f
goals of, 29	combining aesthetic treatments with, 97
methods used, 29	contraindications to, 14, 92
ice and other coolants, 44–46 (See also Ice and	dermal filler procedure
topical coolants)	and duration of effects, 96
injectable anesthetics, 30–42 (See also	equipment for, 93
Injectable anesthetics)	overview of, 93–94, 94f
topical anesthetics, 42–44 ( <i>See also</i> Topical	performing of, 94–96, 95f
anesthetics)	results of, 91f, 96
preprocedure checklist, 29	and subsequent treatments, 96
Atrophic depression scars, 145. See also Scars,	dermal filler product for, recommended, 92
treatment of	dermal filler treatment volumes, 92–93
dedinent of	follow-ups and management after, 96
D	patient assessment for, 91–92
B	pricing for, 97
Basic dermal filler procedures, 6–7	treatment goals, 92
dermal filler products for, 6	Chin flattening, 1f, 2f
injection techniques for, 7	Complications, 47–56, 165. See also specific
treatment areas for, 9t	treatment area
Beletero®, 27	asymmetry/undercorrection, 48
Benzocaine:lidocaine:tetracaine (BLT), 42–43,	blindness, 52
43t, 61, 69, 79, 140, 147. See also Topical	erythematous, tender bumps, and nodules, 50
anesthetics	extensive bruising, 47, 48f
Biometric reduction, 5	filler bumpiness, 48
Biostimulants, 12	granulomas, 50–51, 51f
Blindness, 52, 143, 165	hyperpigmentation, 50
Botulinum toxin treatment	infection, 50
of depressor anguli oris muscles, 75	keratoacanthomas, 51-52, 52f
for frown lines, 137, 143	prolonged erythema, 49-50, 49f
of glabellar complex, 143	prolonged swelling, 48–49
of mentalis muscle, 83, 97	scarring, 54, 54f
of nasolabial folds, 66	tissue ischemia and skin necrosis, 52-54,
of orbicularis oris muscle, 107–108, 115, 124	53f
Braces, 100, 110, 118	Tyndall effect, 48
Bruising, after dermal filler procedures, 25, 26f, 47,	unpredictable filler persistence, 48
48f, 66, 73, 81, 90, 96, 107, 114, 124, 135,	Consent form, for dermal filler treatments,
142, 149, 160	165–166
	Consultation process, 16
C	Contact cooling device, 46
Calcium hydroxylapatite (CaHA), 8, 9, 11. See also	Cross-hatching injection technique, with dermal
Radiesse; specific treatment area	fillers, 23, 23f
and lidocaine preparation, 12–13, 13f	Cupid's bow, 99

D	Dynamic lip lines, 118f. See also Lip line treatment,
Depot injection technique	upper
with dermal fillers, 23, 24f	
for malar augmentation dermal filler treatment, 134	-
Dermal filler layering. See also Layering treatment	E
of nasolabial folds	Equipment, for dermal fillers treatment, 14–15.
for marionette lines, 75	See also specific treatment area
for mental creases, 83	anesthesia, 14 CaHA (Radiesse) mixing with lidocaine, 15
for nasolabial folds, 66 Dermal fillers, 9–11	dermal filler procedure, 15
advantages of, 13	emergency vascular occlusion kit, 15, 15f
for basic procedures, 6	general, 14
biostimulants, 12	Erythema, after dermal filler procedures, 25
CaHA-lidocaine preparation, 12–13	Ethyl chloride spray, 46, 46f
disadvantages of, 13	Extended mental creases, treatment with CaHA, 85-90
history of use of, 10f	anatomy related to, 1f, 2f, 85
injection, 17–24	anesthesia for, 88
mechanism of action for, 12, 12f	equipment for, 87
selection of, 12	overview of, 87, 87f
space-occupying, 12	before and after dermal filler treatment, 85f, 86f
storage and handling of, 15	combining aesthetic treatments with, 90 contraindications to, 86
used in United States, 10t Dermal filler treatment, 5. See also Face; Facial	dermal filler procedure
aging; specific treatment area	and duration of effects, 90
advanced procedures, 7–8	equipment for, 87
aesthetic consultation before, 16	overview of, 87–88, 88f
aesthetic treatments and, combining of, 27	performing of, 88-89, 89f
aftercare, 24	results of, 85f, 86f, 89–90
anatomy related to, 1f-4f, 16	and subsequent treatments, 90
anesthesia for, 17 (See also Anesthesia)	dermal filler product for, recommended, 86
areas, 9t	dermal filler treatment volumes, 87
basic procedures, 6–7	follow-ups and management after, 90
consent for, 165–166	patient assessment for, 86 pricing for, 90
contraindications to, 14 equipment for, 14–15, 15f	treatment goals, 86
for extended mental creases, 85–90	dealine goals, oo
facial aging and, 5, 6f–8f	
financial considerations in, 27	F
follow-ups and management after, 24-25, 26f	Face
of frown lines, 137-143 (See also Frown lines,	facial landmarks, 4f
treatment of)	nerves of, 3f
indications for, 8	vascular supply of, 3f
injection and technique, 17–24	wrinkles, folds, and contour irregularities of
(See also Injection, dermal filler) instructions for	anterior-posterior, 1f
after treatment, 163	oblique, 2f Facial aging, 5, 27
before treatment, 163	progression from youthful to aged contours, 8f
of lip border, 99–108	and wrinkles, folds, and contour irregularities,
malar augmentation, 127–135	6f–7f
for marionette lines, 67–75	Facial volume loss, 5
with botulinum toxin treatment, 75	Fanning injection technique, with dermal fillers, 22, 22f
for mental crease, 77–83	Frown lines, treatment of, 137–143
of nasolabial folds, 59–66	anatomy related to, 1f, 2f, 137, 138f
with botulinum toxin treatment, 66	anesthesia for, 141
layering treatment, 151–160 patient selection for, 9	equipment for, 139
photodocumentation and, 16	overview of, 140, 140f before and after dermal filler treatment, 137f
and preprocedure checklist, 17	combining aesthetic treatment with, 143
procedure notes, 167	complications and management, 143
products for (See Dermal fillers)	contraindications to, 14
results and follow-up, 24	dermal filler procedure
of scars, 145–150	and duration of effects, 142
storage and usage of partially used syringes,	equipment for, 140
25, 27	overview of, 140, 141f
supply sources, 169–170	performing of, 141–142, 142f
Dermatologic surgery, for scars, 150	results of, 137f, 142
Downturned corners of mouth, 1f, 2f	and subsequent treatments, 142

dermal filler product for, recommended, 138–139	L
dermal filler treatment volumes, 139	Lateral nasal artery, 3f, 52, 59, 62, 152, 154
follow-ups and management after, 142–143 indications for, 137	Layering treatment of nasolabial folds, 151–160
patient assessment for, 137–138	anatomy related to, 1f, 2f, 3f, 151–152
pricing for, 143	anesthesia for, 153f, 154 equipment for, 153
treatment goals, 138	overview of, 153f, 154
-	before and after dermal filler treatment, 151f
G	combining aesthetic treatments with, 160
Granulomas, 50–51, 51f	complications and management, 160
Granulomas, 50–51, 511	contraindications to, 14
	dermal filler procedure
H	and duration of effects, 157
Hyaluronic acid (HA) fillers, 5, 9, 11, 11f.	equipment for, 153
See also specific use	overview of, 153 performing of, 155–157, 156f, 158f, 159f
Hyaluronidase, 6, 55	results of, 157
complications of, 55	and subsequent treatments, 158
contraindications to, 55 dosing of, 56	dermal filler product for, recommended, 152
off-label indications for, 55	dermal filler treatment volumes, 152–153
powdered, 55	follow-ups and management after, 160
products, 55, 55t	indications for, 151
skin testing for, 56	patient assessment for, 152
solutions, 55	pricing for, 160
time for onset of effects of, 56	treatment goals, 152
Hydrelle, 11	Lidocaine
Hylenex, 55	allergic reactions to, 30 for dermal filler treatments, 30
	maximum lidocaine dose, 30, 30t
I	toxicity, 31
Ice and topical coolants, 44–46	Linear threading injection technique, with dermal
equipment for, 44	fillers, 20, 22f
performing procedure with, 44–46, 45f, 46f	Lip body treatment, 109–115
contact cooling device, 46	anatomy related to, 109
ice, 44, 45f	anesthesia for, 111
vapocoolant, 46, 46f	equipment for, 110
Infraorbital nerve block, 36	overview of, 111
Injectable anesthetics, 30	combining aesthetic treatments with, 115 complications and management, 115
complications with, 31 equipment for, 31–32	contraindications to, 110
lidocaine, use of, 30 ( <i>See also</i> Lidocaine)	dermal filler procedure
local infiltration method, 32–36 (See also Local	and duration of effects, 114
infiltration)	equipment for, 111
ring block method, 36–42 (See also Ring blocks)	lower lip body, 113–114, 113f, 114f
techniques for reducing discomfort with, 31	overview of, 109f, 111
Injection, dermal filler	performing of, 111–114, 112f, 113f, 114f
compression of dermal filler	results of, 114
against bone, 19, 20f	and subsequent treatments, 114
by cotton-tipped applicator, 19, 19f by fingers, 17, 19f	upper lip body, 112, 112f, 113f dermal filler product for, recommended, 110
depth of, 20, 21f, 21t	dermal filler treatment volumes, 110
general principles related to, 17–20	follow-ups and management after, 114–115
filler bumps, smoothing of, 17, 19	indications for, 109
injection point, identification of, 17, 18f	patient assessment for, 110
techniques for, 20, 22–25	pricing for, 115
cross-hatching, 23, 23f	treatment goals, 110
depot, 23, 24f	Lip border augmentation, with HA, 99–108
fanning, 22, 22f	anatomy related to, 1f, 2f, 99
layering, 23	anesthesia for, 102
linear threading, 20, 22f	equipment for, 101 overview of, 101
and tissue ischemia, 20	before and after dermal filler treatment, 99f
	combining aesthetic treatments with, 107–108
J	complications and management, 107
Juvederm®, 6	contraindications to, 14, 100
Juvederm Ultra Plus XC, 11, 60, 68, 71, 78, 101,	dermal filler procedure
110. See also specific treatment area	and duration of effects, 107

Lip border augmentation, with HA (continued) equipment for, 101 lower lip border, 104–106, 105f, 106f	overview of, 131–133, 132f performing of, 133–134, 134f
overview of, 100f, 101–102 performing of, 102–106, 103f, 104f, 105f, 106f	results of, 127f, 134 and subsequent treatments, 134 dermal filler product for, recommended,
results of, 106–107	129–130
and subsequent treatments, 107	dermal filler treatment volumes, 130
upper lip border, 102–104, 103f, 104f	facial landmarks for, 129f, 131
dermal filler product for, recommended, 101	follow-ups and management after, 135
dermal filler treatment volumes, 101	patient assessment for, 129
follow-ups and management after, 107	pricing for, 135
indications for, 99	treatment area, 128f
patient assessment for, 100	treatment goals, 129
pricing for, 108 treatment goals, 100	Malar groove, 129, 129f Marionette lines, HA treatment of, 67–76
Lip line treatment, upper, 117–125	anatomy related to, 1f, 2f, 67
anatomy related to, 1f, 2f, 117	anesthesia for, 70
anesthesia for, 120–121	equipment for, 68
equipment for, 119	overview of, 68–69, 69f
overview of, 119	before and after dermal filler treatment, 67f
before and after dermal filler treatment, 117f	combining aesthetic treatments with, 75
combining aesthetic treatments with, 124-125	complications and management, 73, 75
complications and management, 124	contraindications to, 14
contraindications to, 118	dermal filler procedure
dermal filler procedure and duration of effects, 124	and duration of effects, 73 equipment for, 68
equipment for, 119	overview of, 69, 70f
overview of, 119–120, 120f	performing of, 70–71, 72f–73f, 74f
performing of, 120–123, 122f, 123f	results of, 67f, 71
results of, 117f, 123–124	and subsequent treatments, 73
and subsequent treatments, 124	dermal filler product for, recommended, 68
dermal filler product for, recommended,	dermal filler treatment volumes, 68
118–119	follow-ups and management after, 73
dermal filler treatment volumes, 119	indications for, 67
follow-ups and management after, 124 indications for, 117	patient assessment for, 68 pricing for, 75
patient assessment for, 118	treatment goals, 68
pricing for, 125	Mental crease, HA treatment of, 77–83
treatment goals, 118	anatomy related to, 1f, 2f, 77
Lip ring block, 101, 111, 119	anesthesia for, 78f, 80
Lip thinning, 1f, 2f	equipment for, 78
Local infiltration, 32–36. See also Lidocaine	overview of, 79
for chin augmentation, 93, 93f	before and after treatment, 77f
for extended mental crease, 87, 87f lidocaine for, 30	combining aesthetic treatments with, 83
buffering of, 32	complications and management, 82 contraindications to, 14
overview of procedure, 32, 33f, 34f	dermal filler procedure
performing of procedure, 33–35, 35f	and duration of effects, 80
for malar augmentation, 130f, 131	equipment for, 79
for marionette line, 68-69, 69f	overview of, 79, 79f
for mental creases, 79	performing of, 80, 81f, 82f
for nasolabial folds, 60, 61f, 153	results of, 77f, 80
techniques for reducing discomfort with, 35–36	and subsequent treatments, 80
	dermal filler product for, recommended, 78 dermal filler treatment volumes, 78
M	follow-ups and management after, 81–82
Malar augmentation, 127–135	indications for, 77
anatomy related to, 1f, 2f, 127, 129, 129f	patient assessment for, 77
anesthesia for, 133	pricing for, 83
equipment for, 131	treatment goals, 78
overview of, 130f, 131	Mental nerve block, 36
before and after dermal filler treatment, 127f	
with CaHA (Radiesse), 130 combining aesthetic treatments with, 135	N
contraindications to, 129	Nasolabial folds, HA treatment of, 59–66. See
dermal filler procedure	also Layering treatment of nasolabial
and duration of effects, 134	folds
equipment for, 131	anatomy related to, 1f, 2f, 3f, 4f, 59

anesthesia for	S
equipment for, 60	Scars, treatment of, 145–150
overview of, 60–61	anatomy related to, 145
before and after dermal filler treatment, 59f	anesthesia for, 147f, 148
combining aesthetic treatments with, 66	equipment for, 146
complications and management, 66	overview of, 146–147, 147f
dermal filler procedure	before and after dermal filler treatment, 145f
and duration of effects, 64	combining aesthetic treatments with, 150
equipment for, 60	complications and management, 150
overview of, 61–62, 62f	contraindications to, 14, 146
performing of, 62-64, 63f, 64f, 65f	dermal filler procedure
results of, 59f, 64	and duration of effects, 149
and subsequent treatments, 64	equipment for, 146
dermal filler product for, recommended, 60	
dermal filler treatment volumes, 60	overview of, 147, 148f
follow-ups and management after, 64, 66	performing of, 148–149
patient assessment for, 60	results of, 145f, 149
pricing for, 66	and subsequent treatments, 149
treatment goals, 60	dermal filler product for, recommended, 146
treatment goals, oo	dermal filler treatment volumes, 146
	follow-ups and management after, 149–150
0	indications for, 145
Oral herpes simplex, reactivation of, 107, 115, 124	patient assessment for, 145–146
Orbicularis oris muscle, 107, 115	pricing for, 150
botulinum toxin treatment of, 107–108, 115, 124	treatment goals, 146
botumum toxin treatment of, 107–108, 113, 124	Space-occupying dermal fillers, 12
	Static lines, 5
P	Swelling, after dermal filler procedures, 25
Patient selection, 9	
	Т
Perioral lip lines, 117. See also Lip line treatment,	-
upper Perioral nerves, 36	Tissue ischemia/necrosis, 20, 52–54, 53f, 66
Perlane <sup>®</sup> , 7	in frown line area, 143
	glabellar region and, 140
Prevelle Silk®, 6	lip augmentation treatment and, 115
	in marionette line area, 73, 75
R	nasolabial fold treatments and, 160
	Topical anesthetics, 42–44
Radiesse, 7, 8, 10t, 11, 11f, 13, 19, 86, 92, 118, 119,	BLT, use of, 42–43, 43t, 61, 69, 79
130, 152	commonly used, 43t
Restylane®, 6	complications with, 43–44
Ring blocks, 36–42	dosing of, 43, 43t
overview of procedure, 37–38	equipment for, 44
corners of lips, 38f	for frown line treatment, 140, 140f
lower lip ring block lidocaine, 39f	performing procedure with, 44, 45f
upper lip ring block lidocaine, 37f	for scars, 146–147, 147f
performing of procedure	use of, 42
corner of lip lidocaine injection technique,	Tyndall effect, 48
40, 41f	
for lower lip ring block, 40–42, 42f	3.4
for upper lip ring block, 38–40, 39f, 40f, 41f	V
related lip anatomy, 3f, 36–37, 36f	Vapocoolant, 46, 46f
use of, for lips, 36	