

## Injectables

Botox is produced from the bacterium *Clostridium botulinum*, which is commonly associated with food poisoning. In small, diluted amounts, however, Botox can be injected directly into specific muscles, causing a controlled weakening.

Product Name	FDA Approval	Approved Uses	Off-Label Uses	What It Is, What It Does	Cost	How Long Results Last	Side Effects	Other Considerations	Physician Notes
<b>Botox Cosmetic</b>	April 2002	Frown lines between the eyebrows (glabellar region)	Everything except for frown lines	Injections of this diluted toxin block the release of a chemical called acetylcholine (also found in the nerves in the underarm that cause sweating), paralyzing the muscle and erasing wrinkles	\$14-\$18 per unit	3-6 months	Bruising, redness, numbness at injection site; headache, nausea, flu-like symptoms		Gold standard for erasing frown lines
<b>MyoBloc (Botulinum Type B)</b>	December 2000	Neck spasms (cervical dystonia)	Wrinkles, excessive sweating, migraine		\$14-\$18 per unit	About 2 months	Bruising, redness, numbness at injection site; headache, nausea, flu-like symptoms		Rarely used cosmetically
<b>Dysport</b>	April 2009	Forehead wrinkles and frown lines	n/a		n/a	3-6 months	Reportedly bruising, numbness	Reports of droopy eyelid, change in facial appearance	May give Botox Cosmetic a run for its money
<b>Xeomin</b>	August 2010	neck spasms/ involuntary blinking	frown lines, crows feet, other facial wrinkles		Expected to be similar to Botox	3-6 months	Injection site bruising or bleeding		Always a plus to have more choices

## Collagen Fillers

Collagen is the main protein found in connective tissue. It supports the skin, bone, cartilage and blood vessels.

Product Name	FDA Approval	Approved Uses	Off-Label Uses	What It Is, What It Does	Cost	How Long Results Last	Side Effects	Other Considerations	Physician Notes
<b>Artefill</b>	October 2006	Facial wrinkles and folds	Adding volume to facial features and contours	Gel filler containing polymethylmethacrylate and cow collagen; also contains a local anesthetic	\$500 or more per syringe	Permanent	Bruising, swelling, redness	Allergy alert: potential for allergic reaction; pre-allergy testing required	Best bet for lip enhancement
<b>Cosmoplast/ Cosmoderm</b>	March 2003	Frown lines, crow's feet, forehead lines, smile lines, vertical lip lines, marionette lines, lip border and some scars; Cosmoderm is used for superficial lines; Cosmoplast is used for deeper wrinkles	Any area not on face	Soft tissue filler, derived from human collagen that has been purified and grown in a lab, adds volume	\$500 or more per syringe	3-4 months	Bruising, swelling, redness; may change skin color if injected superficially	Small, temporary bumps under the skin may occur; no allergy test required	
<b>NEW Evolence</b>	June 2008	Moderate to deep facial wrinkles and folds, such as nasolabial folds	Everything except nasolabial folds	Made from pig-based collagen, it adds volume and structural support to depleted facial areas; it binds naturally with the body's own collagen	About \$600 or more per syringe	12 months	Mild swelling, redness, pain at injection site; other rare side effects may include development of small areas of firmness (nodules) under the skin at the treated sites that may be noticed when pressed	No pre-test needed because pig or porcine collagen is the most genetically similar to human collagen	Not a good lip plumper due to risk of nodules. Manufacturer Johnson & Johnson recently announced that it will stop selling Evolence.
<b>Zyderm/ Zyplast</b>	1981/ 1985	Wrinkles, lines and scars on face and around lips	Any area not on face	Soft tissue filler, derived from bovine (cow) collagen, adds volume	\$500 or more per syringe	3-4 months	Bruising, swelling, redness	Allergy alert: potential for allergy; skin test required	

## Miscellaneous Fillers

Product Name	FDA Approval	Approved Uses	Off-Label Uses	What It Is, What It Does	Cost	How Long Results Last	Side Effects	Other Considerations	Physician Notes
<b>Fat injections</b>	n/a	Adding volume, filling wrinkles and lines, enhancing lips	n/a	Involves taking fat from one part of the body, such as the abdomen, thighs or buttocks, and reinjecting it beneath the facial skin	\$2,000 to \$4,000 per treatment	3-6 months or longer; can be permanent	Bruising, swelling, redness	Fatty bumps beneath the skin have been reported	
<b>Radiesse</b>	December 2006	Nasolabial folds	Adding volume to all other facial folds and wrinkles except the lips	Volumizer made of calcium-based microspheres suspended in a water-based gel that may stimulate the body to produce new collagen	Approx. \$1,000 per syringe	About 1 year	Injection-site bruising, discomfort, swelling, redness		Causes an unacceptable number of nodules when used on the lips
<b>Sculptra</b>	August 2004	Facial wasting in people with HIV, the AIDS Virus, deep nasolabial folds and other facial wrinkles	n/a	Injections of poly L lactic acid thicken skin and improve the appearance of folds and sunken areas	\$1,000 to \$1,200 per vial	2 years or longer	Bruising, swelling, redness	May be visible or felt; rare reports of small bumps beneath the skin	

## Hyaluronic Acid Fillers

Hyaluronic acid is found in the connective tissue of the body and can add volume and fullness to the skin.

Product Name	FDA Approval	Approved Uses	Off-Label Uses	What It Is, What It Does	Cost	How Long Results Last	Side Effects	Other Considerations	Physician Notes
<b>Captique</b>	December 2004	Moderate to severe creases around the nose	Everything besides creases around the mouth, including plumping eyebrows, smoothing under-eye hollows, lip enhancement, defining cupid's bow, enhancing volume and defining contours of cheeks, chin and jawline, softening appearance of scars and other depressed marks, softening appearance of bony hands	Soft tissue filler, made of non-animal derived hyaluronic acid, adds volume	Approx. \$600 per syringe	3-4 months	Bruising, swelling, rare allergic reaction		Gold standard for erasing frown lines
<b>Hylaform</b>	April 2004	Moderate to severe creases around the mouth		Soft tissue filler, made from hyaluronic acid extracted from rooster combs, adds volume	Approx. \$650 per syringe	3-4 months	Redness, swelling	Allergy alert: people with sensitivity to bird products may have allergic reaction	Rarely used cosmetically
<b>Hylaform Plus</b>	October 2004	Moderate to severe creases around the mouth		Soft tissue filler, made from hyaluronic acid extracted from rooster combs, adds volume; contains large hyaluronic acid gel particles	Approx. \$650 per syringe	3-4 months	Redness, swelling		May give Botox Cosmetic a run for its money for erasing frown lines
<b>Juvederm Ultra</b>	June 2001	Mild to moderate creases around the mouth		Soft tissue filler, made of hyaluronic acid gel, adds volume to minimize wrinkles and fine lines	Approx. \$600 or more per syringe	3-4 months	Redness, bruising, tenderness, swelling, pain, itching	Can be visible or palpable if injected too close to skin; rare cases of small bumps beneath the skin (nodules) have been reported	
<b>Juvederm Ultra Plus</b>	June 2007			Soft tissue filler, made of hyaluronic acid gel, adds volume to minimize wrinkles and fine lines; slightly thicker than Juvederm Ultra	Approx. \$600 or more per syringe	3-4 months			
<b>Perlane</b>	May 2007			Soft tissue filler, made of non-animal derived hyaluronic acid; slightly thicker than Restylane	Approx. \$650 or more per syringe	3-4 months			
<b>NEW Prevelle Silk</b>	March 2008	Moderate to severe facial lines, folds and wrinkles, including nasolabial folds	Lips	Soft tissue filler, made from hyaluronic acid plus Lidocaine, a local anesthetic, which reduces the pain of injection; adds volume	\$400 per .075 syringe	3-4 months	Temporary injection-site reactions such as swelling, pain, tenderness, lumps, bumps		Very soft gel that flows in easily; added pain relief may help take the sting out of the injection; bottom line: good entry-level filler for first-time user
<b>Puragen</b>	Pending FDA approval	n/a	n/a	Soft tissue filler, made of hyaluronic gel; plumps smooth lines and wrinkles, with an added anesthetic	n/a	3-4 months	Bruising, redness, swelling	Reports suggest that it may be visible or palpable if injected too close to skin; rare cases of small bumps beneath the skin (nodules) have been reported	Hyaluronic acid fillers are the gold standard for filling in creases around the mouth; there is no clear-cut answer as to which is best; your doctor may have more experience with one than another
<b>Restylane</b>	December 2003	Mild to moderate creases around the mouth	Everything besides creases around the mouth, including plumping eyebrows, smoothing under-eye hollows, lip enhancement, defining cupid's bow, enhancing volume and defining contours of cheeks, chin and jawline, softening appearance of scars and other depressed marks, softening appearance of bony hands	Soft tissue filler, made of non-animal derived hyaluronic acid, adds volume to minimize wrinkles and fine lines	Approx. \$600 or more per syringe	3-4 months	Redness, bruising, tenderness, swelling, pain, itching	Can be visible or palpable if injected too close to skin; rare cases of small bumps beneath the skin (nodules) have been reported	

Charts reviewed by Dr. Mitchel P. Goldman

Note: "n/a" means "information not available."