

Clinical Policy: Cosmetic and Reconstructive Procedures

Reference Number: PA.CP.MP.31

Plan Effective Date: 01/18 Coding Implications
Date of Last Revision: 09/2024 Revision Log

Description

Reconstructive surgery is performed on abnormal structures of the body caused by congenital defects, developmental abnormalities, trauma, surgery, infection, tumors or disease. ¹⁶

This policy outlines the medical necessity criteria for cosmetic and reconstructive procedures.

Note:

- For criteria applicable to Medicare plans, please see MC.CP.MP.31 Cosmetic and Reconstructive Procedures.
- This policy should only be used if there is no health plan-adopted nationally recognized decision support criteria.
- Please refer to PA.CP.MP.95 Gender Affirming procedures for procedures related to treatment of gender dysphoria.

Policy/Criteria

- **I.** It is the policy of PA Health and Wellness® (PHW) that *reconstructive procedures* are considered **medically necessary** when meeting all of the following:
 - A. Intent of the procedure meets one of the following:
 - 1. The procedure is performed to improve the function of an abnormal body part caused by illness, trauma, or a congenital defect after failure of conservative therapy (unless conservative therapy is not standard of care for the condition, or is contraindicated);
 - 2. Skin tag removal when located in an area that affects eyesight or in an area of friction with documentation of repeated irritation and bleeding (refer to Benefit Plan Contract for any coverage restrictions);
 - 3. Scar/keloid revision/removal when accompanied by pain unresponsive to conservative therapy and is recurrently infected, unstable, friable; or with functional impairment;
 - 4. Certain reconstructive procedures may be covered if improving appearance is the only benefit, e.g. post-mastectomy breast reconstruction. These procedures may include, but are not limited to:
 - a. Post-mastectomy, medically necessary lumpectomy, or other medically necessary breast surgery resulting in asymmetry: breast reconstruction, including nipple reconstruction, tattooing and surgery on contralateral breast to restore symmetry;
 - b. Use of FDA-approved facial dermal injections [Poly-L-Lactic acid (SculptraTM), calcium hydroxylapatite microspheres (Radiesse[®])] or autologous fat transfers for HIV-associated wasting* when meeting both of the following:
 - i. Diagnosis of HIV (human immunodeficiency virus) or AIDS (acquired immunodeficiency syndrome);
 - ii. Diagnosis of facial lipodystrophy syndrome (LDS);
 - B. Medical records with photographs are provided, as applicable.





Refer to the most current version of the PHW's-adopted nationally recognized decision support tools for other procedures that may be considered cosmetic in certain cases.

*Note: This includes reconstruction after prophylactic mastectomy with BRCA mutation if the mastectomy is a covered benefit in the State.

**Note: For Serostim (somatropin) for HIV associated wasting, see PHW.PDL.014 Growth Hormone (Somapacitan, Somatrogon, Somatropin), Medicaid; CP.CPA.353 Human Growth Hormone (Somapacitan, Somatrogon, Somatropin), Commercial; or HIM.PA.161 Human Growth Hormone (Somapacitan, Somatrogon, Somatropin), Health Insurance Marketplace. For Egrifta (tesamorelin) for lipodystrophy, see PA.CP.PHAR.109 Tesamorelin.

- **II.** It is the policy of PHW that *cosmetic surgery* is **not medically necessary** and generally not a covered benefit when performed to improve a patient's normal appearance and self-esteem. These procedures include, but are not limited to:
 - A. Excision of excessive skin
 - B. Body contouring
 - C. Body lift
 - D. Breast augmentation
 - E. Liposuction, excluding lipoma as directed by clinical decision support criteria
 - F. Surgery to correct unsatisfactory results from previous cosmetic and/or non-covered service
 - G. Revision, removal, (except for those medically necessary indications mentioned above), or replacement of breast implants previously placed for cosmetic reasons
 - H. Removal of excess skin or body contouring procedures following weight loss or bariatric surgery when removal is solely cosmetic
 - I. Facial augmentation
 - J. Abdominoplasty
 - K. Dermabrasion
 - L. Skin rejuvenation and resurfacing
 - M. Electrolysis, laser hair removal
 - N. Hair transplantation, when not performed to correct permanent hair loss caused by disease or injury
 - O. Tattooing (except when covered for breast reconstruction post-mastectomy)
 - P. Injectable filler
 - O. Circumcision revisions done only to improve appearance
 - R. Mastopexy (except for breast reconstruction post-mastectomy, medically necessary lumpectomy, or other medically necessary breast surgery resulting in significant asymmetry)
 - S. Correction of inverted nipples
 - T. Repair of diastasis recti
 - U. Breast reconstruction for fibroadenomas or other benign lesions, unless medically necessary per clinical decision support criteria.



** It is the policy of PA Health & Wellness ® (PHW) that determinations for services that are considered **not medically necessary** must be considered on a case-by-case basis by a physician or ad hoc committee and must be made in accordance with the Benefit Plan Contract provisions and applicable state and federal requirements. Denials will require medical director review.

Medical records must accompany all requests for plastic and reconstructive surgery, photographs are also commonly needed. Proof of conservative therapies attempted must be documented when applicable.

Background

Reconstructive surgery is performed on abnormal structures of the body caused by congenital defects, developmental abnormalities, previous or concurrent surgeries, trauma, infection, tumors or disease. It is generally performed to improve the functioning of a body part and may or may not restore a normal appearance.² Functional impairment is a health condition in which the normal function of a part of the body or organ system is less than age appropriate at full capacity, such as decreased range of motion, diminished eyesight or hearing, etc. that variably impacts activities of daily living.³

Cosmetic surgery is performed to reshape normal structures of the body in order to improve the appearance and self-esteem of a patient. It is generally considered not medically necessary. This policy will provide general guidelines as to when cosmetic and reconstructive surgery is or is not medically necessary.

Coding Implications

This clinical policy references Current Procedural Terminology (CPT®). CPT® is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2023, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

CPT Codes That Support Coverage Criteria

CPT Codes	Description
Codes	
11200	Removal of skin tags, multiple fibrocutaneous tags, any area; up to and including
	15 lesions
11201	Removal of skin tags, multiple fibrocutaneous tags, any area; each additional 10
	lesions, or part thereof (List separately in addition to code for primary procedure)
11400	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), trunk, arms or legs; excised diameter 0.5 cm or less
11401	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), trunk, arms or legs; excised diameter 0.6 to 1.0 cm
11402	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), trunk, arms or legs; excised diameter 1.1 to 2.0 cm



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CPT Codes	Description
Codes	
11403	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), trunk, arms or legs; excised diameter 2.1 to 3.0 cm
11404	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), trunk, arms or legs; excised diameter 3.1 to 4.0 cm
11406	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), trunk, arms or legs; excised diameter over 4.0 cm
11420	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 0.5 cm or less
11421	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 0.6 to 1.0 cm
11422	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 1.1 to 2.0 cm
11423	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 2.1 to 3.0 cm
11424	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), scalp, neck, hands, feet, genitalia; excised diameter 3.1 to 4.0 cm
11426	Excision, benign lesion including margins, except skin tag (unless listed
	elsewhere), scalp, neck, hands, feet, genitalia; excised diameter over 4.0 cm
11440	Excision, other benign lesion including margins, except skin tag (unless listed
	elsewhere), face, ears, eyelids, nose, lips, mucous membrane; excised diameter
4444	0.5 cm or less
11441	Excision, other benign lesion including margins, except skin tag (unless listed
	elsewhere), face, ears, eyelids, nose, lips, mucous membrane; excised diameter
11140	0.6 to 1.0 cm
11442	Excision, other benign lesion including margins, except skin tag (unless listed
	elsewhere), face, ears, eyelids, nose, lips, mucous membrane; excised diameter
11443	1.1 to 2.0 cm
11443	Excision, other benign lesion including margins, except skin tag (unless listed elsewhere), face, ears, eyelids, nose, lips, mucous membrane; excised diameter
	2.1 to 3.0 cm
11444	Excision, other benign lesion including margins, except skin tag (unless listed
11777	elsewhere), face, ears, eyelids, nose, lips, mucous membrane; excised diameter
	3.1 to 4.0 cm
11446	Excision, other benign lesion including margins, except skin tag (unless listed
	elsewhere), face, ears, eyelids, nose, lips, mucous membrane; excised diameter
	over 4.0 cm
11920	Tattooing, intradermal introduction of insoluble opaque pigments to correct color
	defects of skin, including micropigmentation; 6.0 sq cm or less
11921	Tattooing, intradermal introduction of insoluble opaque pigments to correct color
	defects of skin, including micropigmentation; 6.1 to 20.0 sq cm
11922	Tattooing, intradermal introduction of insoluble opaque pigments to correct color
	defects of skin, including micropigmentation; each additional 20.0 sq cm, or part
	thereof (List separately in addition to code for primary procedure)



Cosmetic and Reconstructive Surgery



CPT Codes	Description
Codes	
15773	Grafting of autologous fat harvested by liposuction technique to face, eyelids,
	mouth, neck, ears, orbits, genitalia, hands, and/or feet; 25 cc or less injectate
15774	Grafting of autologous fat harvested by liposuction technique to face, eyelids,
	mouth, neck, ears, orbits, genitalia, hands, and/or feet; each additional 25 cc
	injectate, or part thereof (List separately in addition to code for primary
	procedure)
15788	Chemical peel, facial; epidermal
15789	Chemical peel, facial; dermal
15792	Chemical peel, nonfacial; epidermal
15793	Chemical peel, nonfacial; dermal
15830	Excision, excessive skin and subcutaneous tissue (includes lipectomy); abdomen,
17075	infraumbilical panniculectomy
15832	Excision, excessive skin and subcutaneous tissue (includes lipectomy); thigh
15833	Excision, excessive skin and subcutaneous tissue (includes lipectomy); leg
15834	Excision, excessive skin and subcutaneous tissue (includes lipectomy); hip
15835	Excision, excessive skin and subcutaneous tissue (includes lipectomy); buttock
15836	Excision, excessive skin and subcutaneous tissue (includes lipectomy); arm
15837	Excision, excessive skin and subcutaneous tissue (includes lipectomy); forearm or
1.7.7.0	hand
15220	Full thickness graft, free, including direct closure of donor site, scalp, arms,
1.7001	and/or legs; 20 sq cm or less
15221	Full thickness graft, free, including direct closure of donor site, scalp, arms,
	and/or legs; each additional 20 sq cm, or part thereof (List separately in addition
15771	to code for primary procedure)
15771	Grafting of autologous fat harvested by liposuction technique to trunk, breasts,
15772	scalp, arms, and/or legs; 50 cc or less injectate
15772	Grafting of autologous fat harvested by liposuction technique to trunk, breasts,
	scalp, arms, and/or legs; each additional 50 cc injectate, or part thereof (List
15775	separately in addition to code for primary procedure)
15775	Punch graft for hair transplant; 1 to 15 punch grafts
15776	Punch graft for hair transplant; more than 15 punch grafts Excision, excessive skin and subcutaneous tissue (includes lipectomy); submental
15838	fat pad
15839	Excision, excessive skin and subcutaneous tissue (includes lipectomy); other area
15847	Excision, excessive skin and subcutaneous tissue (includes lipectomy), other area Excision, excessive skin and subcutaneous tissue (includes lipectomy), abdomen
1307/	(eg, abdominoplasty) (includes umbilical transposition and fascial plication) (List
	separately in addition to code for primary procedure)
15876	Suction assisted lipectomy; head and neck
15877	Suction assisted lipectomy; trunk
15878	Suction assisted lipectomy; trunk Suction assisted lipectomy; upper extremity
15879	Suction assisted lipectomy; lower extremity
15792	Chemical peel, nonfacial; epidermal
15793	Chemical peel, nonfacial; dermal
13173	Chemical peet, nomacial, actinal



Cosmetic and Reconstructive Surgery



CPT Codes	Description		
Codes			
17110	Destruction (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), of benign lesions other than skin tags or cutaneous vascular proliferative lesions; up to 14 lesions		
17111	Destruction (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), of benign lesions other than skin tags or cutaneous vascular proliferative lesions; 15 or more lesions		
19301	Mastectomy, partial (eg, lumpectomy, tylectomy, quadrantectomy, segmentectomy);		
19302	Mastectomy, partial (eg, lumpectomy, tylectomy, quadrantectomy, segmentectomy); with axillary lymphadenectomy		
19303	Mastectomy, simple, complete		
19316	Mastopexy		
19318	Breast reduction		
19325	Breast augmentation with implant		
19328	Removal of intact breast implant		
19330	Removal of ruptured breast implant, including implant contents (eg, saline, silicone gel)		
19340	Insertion of breast implant on same day of mastectomy (ie, immediate)		
19342	Insertion or replacement of breast implant on separate day from mastectomy		
19350	Nipple/areola reconstruction		
19355	Correction of inverted nipples		
19357	Tissue expander placement in breast reconstruction, including subsequent expansion(s)		
19361	Breast reconstruction; with latissimus dorsi flap		
19364	Breast reconstruction; with free flap (eg, fTRAM, DIEP, SIEA, GAP flap)		
19367	Breast reconstruction; with single-pedicled transverse rectus abdominis myocutaneous (TRAM) flap		
19368	Breast reconstruction; with single-pedicled transverse rectus abdominis myocutaneous (TRAM) flap, requiring separate microvascular anastomosis (supercharging)		
19369	Breast reconstruction; with bipedicled transverse rectus abdominis myocutaneous (TRAM) flap		
19370	Revision of peri-implant capsule, breast, including capsulotomy, capsulorrhaphy, and/or partial capsulectomy		
19371	Peri-implant capsulectomy, breast, complete, including removal of all intracapsular contents		
19380	Revision of reconstructed breast (eg, significant removal of tissue, readvancement and/or re-inset of flaps in autologous reconstruction or significant capsular revision combined with soft tissue excision in implant-based reconstruction)		
19396	Preparation of moulage for custom breast implant		
19499	Unlisted procedure, breast		
21120	Genioplasty; augmentation (autograft, allograft, prosthetic material)		







CPT Codes Codes	Description
21121	Genioplasty; sliding osteotomy, single piece
21122	Genioplasty; sliding osteotomies, 2 or more osteotomies (eg, wedge excision or bone wedge reversal for asymmetrical chin)
21123	Genioplasty; sliding, augmentation with interpositional bone grafts (includes obtaining autografts)
21137	Reduction forehead; contouring only
21138	Reduction forehead; contouring and application of prosthetic material or bone graft (includes obtaining autograft)
21139	Reduction forehead; contouring and setback of anterior frontal sinus wall
21159	Reconstruction midface, LeFort III (extra and intracranial) with forehead advancement (eg, mono bloc), requiring bone grafts (includes obtaining autografts); without LeFort I
21160	Reconstruction midface, LeFort III (extra and intracranial) with forehead advancement (eg, mono bloc), requiring bone grafts (includes obtaining autografts); with LeFort I
21172	Reconstruction superior-lateral orbital rim and lower forehead, advancement or alteration, with or without grafts (includes obtaining autografts)
21175	Reconstruction, bifrontal, superior-lateral orbital rims and lower forehead, advancement or alteration (eg,plagiocephaly, trigonocephaly, brachycephaly), with or without grafts (includes obtaining autografts)
21179	Reconstruction, entire or majority of forehead and/or supraorbital rims; with grafts (allograft or prosthetic material)
21180	Reconstruction, entire or majority of forehead and/or supraorbital rims; with autograft (includes obtaining grafts)
21181	Reconstruction by contouring of benign tumor of cranial bones (eg, fibrous dysplasia), extracranial
21182	Reconstruction of orbital walls, rims, forehead, nasoethmoid complex following intra- and extracranial excision of benign tumor of cranial bone (eg, fibrous dysplasia), with multiple autografts (includes obtaining grafts); total area of bone grafting less than 40 sq cm
21183	Reconstruction of orbital walls, rims, forehead, nasoethmoid complex following intra- and extracranial excision of benign tumor of cranial bone (eg, fibrous dysplasia), with multiple autografts (includes obtaining grafts); total area of bone grafting greater than 40 sq cm but less than 80 sq cm
21184	Reconstruction of orbital walls, rims, forehead, nasoethmoid complex following intra- and extracranial excision of benign tumor of cranial bone (eg, fibrous dysplasia), with multiple autografts (includes obtaining grafts); total area of bone grafting greater than 80 sq cm
21230	Graft; rib cartilage, autogenous, to face, chin, nose or ear (includes obtaining graft)
21235	Graft; ear cartilage, autogenous, to nose or ear (includes obtaining graft)





CPT Codes Codes	Description	
21255	Reconstruction of zygomatic arch and glenoid fossa with bone and cartilage (includes obtaining autografts)	
21256	Reconstruction of orbit with osteotomies (extracranial) and with bone grafts (includes obtaining autografts) (eg, micro-ophthalmia)	
21260	Periorbital osteotomies for orbital hypertelorism, with bone grafts; extracranial approach	
21261	Periorbital osteotomies for orbital hypertelorism, with bone grafts; combined intra- and extracranial approach	
21263	Periorbital osteotomies for orbital hypertelorism, with bone grafts; with forehead advancement	
21267	Orbital repositioning, periorbital osteotomies, unilateral, with bone grafts; extracranial approach	
21268	Orbital repositioning, periorbital osteotomies, unilateral, with bone grafts; combined intra- and extracranial approach	
21270	Malar augmentation, prosthetic material	
21275	Secondary revision of orbitocraniofacial reconstruction	
21280	Medial canthopexy (separate procedure)	
21282	Lateral canthopexy	
21295	Reduction of masseter muscle and bone (eg, for treatment of benign masseteric hypertrophy); extraoral approach	
21296	Reduction of masseter muscle and bone (eg, for treatment of benign masseteric hypertrophy); intraoral approach	
61550	Craniectomy for craniosynostosis; single cranial suture	
61552	Craniectomy for craniosynostosis; multiple cranial sutures	
61556	Craniotomy for craniosynostosis; frontal or parietal bone flap	
61557	Craniotomy for craniosynostosis; bifrontal bone flap	
61558	Extensive craniectomy for multiple cranial suture craniosynostosis (eg, cloverleaf skull); not requiring bone grafts	
61559	Extensive craniectomy for multiple cranial suture craniosynostosis (eg, cloverleaf skull); recontouring with multiple osteotomies and bone autografts (e.g., barrelstave procedure) (includes obtaining grafts)	

HCPCS	Description
Codes	
G0429	Dermal filler injection(s) for the treatment of facial lipodystrophy syndrome (LDS) as
	a result of highly active antiretroviral therapy)
Q2026	Injection, Radiesse, 0.1 ml
Q2028	Injection, Sculptra, 0.5 mg







Reviews, Revisions, and Approvals	Revision Date	Approval Date
References reviewed and updated	4/18	05/18
Reorganized section 1 for clarity. Removed requirement that scar and keloid revisions must be in members under 18 years. Moved statement regarding documentation of medical records, photos. Removed specific mention of documentation of conservative therapies in the medical records criteria. Reorganized description and background sections.	10/19	
Policy/Criteria 1.D add additional conditions regarding removal of breast implants.	1/20	1/4/2021
Removed "significant" in I.A.4.a. In II. N. changed "hair replacement" to "hair transplantation." Added additional not medically necessary indications i.e., (mastopexy except for breast reconstruction post-mastectomy or lumpectomy resulting in significant asymmetry, correction of inverted nipples, and repair of diastasis recti. Added criteria for dermal injections and autologous fat injections for HIV-associated FLS. Changed policy title and medical necessity statements to state "cosmetic procedures" or "reconstructive procedures" instead of "cosmetic surgery" or "reconstructive surgery." Added CPT and HCPCS codes for specified medically necessary indications. Added note to refer to CP.MP.95 Gender Affirming procedures for procedures related to treatment of gender dysphoria. Clarified in II.N. that hair transplant is not medically necessary, when not performed to correct permanent hair loss caused by disease or injury. Added the following applicable CPT codes: 15720,15221, 15775, 15776. Supporting references added. Added applicable CPT codes: 15771, 15772. CPT code description revised in 2021: 19318, 19325, 19328, 19340, 19342, 19357, 19361, 19364, 19367, 19368, 19369, 19370, 19371, and 19380. CPT 19324 and 19366 deleted in 2021. Clarified in I.A.1. failure of conservative therapy "(unless conservative therapy is not standard of care for the condition, or is contraindicated)." Changed "review date" in the header to "date of last revision" and "date" in the revision log header to "revision date." Added the following codes from the retired Craniofacial Surgery policy; 21120, 21121, 21122, 21123, 21137, 21138, 21139, 21159, 21160, 21177, 21175, 21179, 21180, 21181, 21182, 21183, 21139, 21159, 21260, 21255, 21256, 21260, 21261, 21263, 21267, 21268, 21270, 21275, 21280, 21282, 21295, 21296, and craniectomy/craniotomy codes for craniosynostosis. Clarified in I.A.4.a. "Post-mastectomy,* medically necessary lumpectomy, or other medically necessary breast surgery." Updated II.R. "Mastopexy (except for breast reconstr	02/21/2022	
R. Mastopexy (except for breast reconstruction post-mastectomy, medically necessary lumpectomy, or other medically necessary breast surgery resulting in significant asymmetry)	02/21/2022	





Reviews, Revisions, and Approvals	Revision Date	Approval Date
U. Breast reconstruction for fibroadenomas or other benign lesions, unless medically necessary per clinical decision support criteria.		
Annual review completed. Added to I.A.4.b. "poly-L-lactic acid" and "calcium hydroxylapatite microspheres". Minor rewording with no clinical significance. References reviewed and updated. Reviewed by external specialist.	02/06/2023	
** It is the policy of PA Health & Wellness ® (PHW) that determinations for services that are considered not medically necessary must be considered on a case-by-case basis by a physician or ad hoc committee and must be made in accordance with the Benefit Plan Contract provisions and applicable state and federal requirements. Denials will require medical director review.		
Annual review. Minor edits to I.A.4.b with no clinical significance. Updated pharmacy policies for Serostim (somatropin) in note. Removed CPT code 11310. References reviewed and updated. Reviewed by internal specialist.	10/2023	02/2024
Annual review. Added note to see MC.CP.MP.31 for Medicare health plans. Updated criteria numbering so that I.A.2.a. is now I.A.3. Added criteria to I.A.2. to include in an area that affects eyesight. Under I.A.3. replaced "standard" with "conservative. Moved notes about health planadopted nationally recognized decision support criteria and gender dysphoria to Description. Removed note regarding prophylactic mastectomy with BRCA mutation. Minor rewording in Background with no impact to criteria. References reviewed and updated. Reviewed by external specialist.	09/2024	

References

- 1. American Society of Plastic Surgeons. Cosmetic procedures. https://www.plasticsurgery.org/cosmetic-procedures. Accessed June 21, 2024.
- 2. American Society of Plastic Surgeons. Reconstructive procedures. https://www.plasticsurgery.org/reconstructive-procedures. Accessed June 21, 2024.
- 3. Memel D. Assessing functional ability is important. Br J Gen Pract. 2008;58(557):835 to 836. doi:10.3399/bjgp08X376159
- 4. DeLong MR, Tandon VJ, Rudkin GH, Da Lio AL. Latissimus Dorsi Flap Breast Reconstruction-A Nationwide Inpatient Sample Review. *Ann Plast Surg.* 2017;78(5 Suppl 4):S185 to S188. doi:10.1097/SAP.000000000001079
- 5. Goldstein BG, Goldstein AO, Hong AM. Keloids and hypertrophic scars. UpToDate. www.uptodate.com Updated May 1, 2024. Accessed June 21, 2024.
- 6. Razdan SN, Cordeiro PG, Albornoz CR, et al. National Breast Reconstruction Utilization in the Setting of Postmastectomy Radiotherapy. *J Reconstr Microsurg*. 2017;33(5):312 to 317. doi:10.1055/s-0037-1598201
- 7. Ilonzo N, Tsang A, Tsantes S, Estabrook A, Thu Ma AM. Breast reconstruction after mastectomy: A ten-year analysis of trends and immediate postoperative outcomes. *Breast*. 2017;32:7 to 12. doi:10.1016/j.breast.2016.11.023





- 8. Farjo B, Farjo N, Williams G. Hair transplantation in burn scar alopecia. *Scars Burn Heal*. 2015;1:2059513115607764. Published 2015 Oct 1. doi:10.1177/2059513115607764
- 9. Oh SJ, Koh SH, Lee JW, Jang YC. Expanded flap and hair follicle transplantation for reconstruction of postburn scalp alopecia. *J Craniofac Surg*. 2010;21(6):1737 to 1740. doi:10.1097/SCS.0b013e3181f403cc
- 10. Yoo H, Moh J, Park JU. Treatment of Postsurgical Scalp Scar Deformity Using Follicular Unit Hair Transplantation. *Biomed Res Int.* 2019;2019:3423657. Published 2019 May 13. doi:10.1155/2019/3423657
- 11. Women's Health Care and Cancer Rights Act (WHCRA). Centers of Medicare & Medicaid Services website. https://www.cms.gov/cciio/programs-and-initiatives/other-insurance-protections/whcra factsheet Published 1998. Modified 9/6/2023. Accessed June 21, 2024.
- 12. Nahabedian M. Complications of reconstructive and aesthetic breast surgery. UpToDate. www.uptodate.com. Updated April 12, 2023. Accessed June 21, 2024.
- 13. Lee BT, Agarwal JP, Ascherman JA, et al. Evidence-Based Clinical Practice Guideline: Autologous Breast Reconstruction with DIEP or Pedicled TRAM Abdominal Flaps. *Plast Reconstr Surg.* 2017;140(5):651e to 664e. doi:10.1097/PRS.0000000000003768
- 14. Glesby MJ. Treatment of HIV-associated lipodystrophy. UpToDate. www.uptodate.com. Updated March 11, 2024. Accessed June 21, 2024.
- 15. Agbai ON. Frontal fibrosing alopecia: management. UpToDate. www.uptodate.com. Updated April 19, 2024. Accessed June 21, 2024.
- 16. Local coverage determination: cosmetic and reconstructive surgery (L33428). Centers for Medicare and Medicaid Services Web site. https://www.cms.gov/medicare-coverage-database/search.aspx Published October 1, 2015 (revised July 29, 2021). Accessed June 21, 2024.
- 17. Carruthers J, Humphrey S. Injectable soft tissue fillers: overview of clinical use. UpToDate. www.uptodate.com. Updated May 10, 2022. Accessed June 21, 2024.
- 18. Zaoury, SC, Levin LS, Bauder AR, et al. Surgical reconstruction of the lower extremity. UpToDate. www.uptodate.com. Updated July 24, 2023. Accessed June 21, 2024.
- 19. Chung EC, Yoneda H. Surgical reconstruction of the upper extremity. UpToDate. www.uptodate.com. Updated June 1, 2023. Accessed June 21, 2024.
- 20. Skin tags: Why they develop, and how to remove them. www.aad.org. https://www.aad.org/public/diseases/a-z/skin-tags
- 21. Sculptra [package insert]. Bridgewater, NJ: Dermik Laboratories.; 2009.
- 22. Radiesse [package insert]. Franksville, WI: Merz Aesthetics.; 2014.