



CIGNA MEDICAL COVERAGE POLICY

The following Coverage Policy applies to all plans administered by CIGNA Companies including plans administered by Great-West Healthcare, which is now a part of CIGNA.

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Coverage Policy Number 0152

Subject **Reduction Mammoplasty**

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Breast Reconstruction following Mastectomy
or Lumpectomy
Gender Reassignment Surgery
Mammography
Prophylactic Mastectomy
Surgical Treatment of Gynecomastia

INSTRUCTIONS FOR USE

Coverage Policies are intended to provide guidance in interpreting certain **standard** CIGNA HealthCare benefit plans as well as benefit plans formerly administered by Great-West Healthcare. Please note, the terms of a participant's particular benefit plan document [Group Service Agreement (GSA), Evidence of Coverage, Certificate of Coverage, Summary Plan Description (SPD) or similar plan document] may differ significantly from the standard benefit plans upon which these Coverage Policies are based. For example, a participant's benefit plan document may contain a specific exclusion related to a topic addressed in a Coverage Policy. In the event of a conflict, a participant's benefit plan document **always supercedes** the information in the Coverage Policies. In the absence of a controlling federal or state coverage mandate, benefits are ultimately determined by the terms of the applicable benefit plan document. Coverage determinations in each specific instance require consideration of 1) the terms of the applicable group benefit plan document in effect on the date of service; 2) any applicable laws/regulations; 3) any relevant collateral source materials including Coverage Policies and; 4) the specific facts of the particular situation. Coverage Policies relate exclusively to the administration of health benefit plans. Coverage Policies are not recommendations for treatment and should never be used as treatment guidelines. Proprietary information of CIGNA. Copyright ©2009 CIGNA

Coverage Policy

Coverage for reduction mammoplasty is dependent on benefit plan language, may be subject to the provisions of a cosmetic and/or reconstructive surgery benefit and may be governed by state and/or federal mandates. Under many benefit plans, reduction mammoplasty is not covered when performed solely for the purpose of altering appearance or self-esteem or to treat psychological symptomatology or psychosocial complaints related to one's appearance. In addition, macromastia surgeries are specifically excluded under some benefit plans. Please refer to the applicable benefit plan language to determine the terms and conditions of coverage.

CIGNA covers breast reduction surgery on the nondiseased/contralateral breast when performed to produce a symmetrical appearance following a mastectomy or lumpectomy.

If coverage for reduction mammoplasty is available, the following conditions of coverage apply.

CIGNA covers reduction mammoplasty for symptomatic macromastia as medically necessary when ALL of the following criteria have been met:

- The individual is at least 18 years of age or breast growth is complete.
- Macromastia is causing at least ONE of the following conditions/symptoms with documented failure of at least one continuous three-month trial of appropriate medical management:

- shoulder, upper back/neck pain, and/or ulnar nerve palsy for which no other etiology has been found on appropriate evaluation
 - intertrigo, dermatitis, eczema, or hidradenitis at the inframammary fold
- The potential causes of the above conditions/symptoms, other than breast size (e.g., intervertebral disc disorder, arthritis and rheumatologic disorders) have been evaluated and ruled out OR breast size has been documented as exacerbating the underlying condition (e.g., intervertebral disc disorder, arthritis and rheumatologic disorders) contributing to symptoms.
 - Preoperative photographs confirm the presence of BOTH of the following:
 - significant breast hypertrophy
 - shoulder grooving from bra straps and/or intertrigo if stated to be present
 - Average weight of tissue planned to be removed in each breast is above the 22nd percentile on the Schnur Sliding Scale (see Appendix A) based on the individual's body surface area (BSA).

CIGNA does not cover reduction mammoplasty for either of the following indications because it is considered cosmetic in nature and not medically necessary:

- Surgery is being performed to treat psychological symptomatology or psychosocial complaints, in the absence of significant physical, objective signs.
- Surgery is being performed for the sole purpose of improving appearance.

CIGNA does not cover suction lipectomy or ultrasonically-assisted suction lipectomy (liposuction) as a sole method of treatment for symptomatic macromastia because such treatment is considered unproven in the treatment of symptomatic macromastia.

General Background

Macromastia (i.e., female breast hypertrophy) is the development of abnormally large breasts. Normal breast development begins at approximately six weeks' gestation and continues until a woman is in her early twenties, with the rate of development and degree of asymmetry often varying. The underlying etiology of macromastia is unknown, especially when it occurs during puberty and early adolescence (affecting girls from age 13–17), but the condition probably represents an end-organ increased sensitivity to circulating estrogens. In males, breast hypertrophy is referred to as gynecomastia. Increased breast size in a male may be due to increased production or a decreased breakdown of estrogen, which may be indicative of a hormonal or liver function abnormality (Burns and Blackwell, 2008; Sanfilippo, 2007).

The presence of macromastia may cause clinical manifestations when the excessive breast weight adversely affects the supporting structures of the shoulders, neck and trunk. Increased weight on the shoulders can cause pain, fatigue in the cervical and thoracic spine, which can lead to poor posture, thoracic kyphosis and occipital headaches. Grooving or ulceration of the skin on the shoulders, pressure on the brachial plexus causing neurological symptoms in the arms and skin conditions occurring at the inframammary fold such as intertrigo, dermatitis, eczema, or hidradenitis (inflammation of the apocrine sweat glands resulting in obstruction of the ducts) may also exist. The presence of these persistent signs and painful symptoms distinguish macromastia from large, normal breasts and may prompt the need for surgical intervention (Burns and Blackwell, 2008; ASPS, 2002a; Schnur, et al., 1997).

Medical management of conditions/symptoms can include any of the following: weight loss, adequate bra support (proper fit and wide strap support); nonsteroidal anti-inflammatory drugs (NSAIDs)/analgesia; and physical therapy, when a functional impairment exists (Collins, et al., 2002).

Reduction mammoplasty is the surgical excision of a substantial portion of the breast, including the skin and the underlying glandular tissue, until a clinically normal size is obtained. Relocation of the nipple, which may result in decreased sensation and altered lactation, may also be required during this procedure. Therefore, it has been

recommended that surgery should not be performed on an individual until the breasts are fully developed. Complications range from mild to severe and may be early or late. The most common early complication independent of reduction technique is delayed wound healing. Late complications can include, but are not limited to, seroma, scars and pseudoptosis (Burns and Blackwell, 2008; Nahai, et al., 2008; Greydanus, et al., 2006).

The Schnur Sliding Scale is an evaluation tool that may be used to determine the appropriate amount of tissue to be removed compared to a patient's total body surface area (BSA). This can be instrumental in determining if breast reduction is being planned for a purely cosmetic reason or as a medically necessary procedure. In a survey of plastic surgeons, Schnur et al. (1991) concluded that women whose removed breast weight was less than the 5th percentile sought the procedure for cosmetic reasons and all women whose breast weight was greater than the 22nd percentile sought the procedure for medical reasons. A calculation for BSA is: $BSA \text{ (in } m^2) = [\text{height (cm)}]^{0.718} \times [\text{weight (kilograms [kg])}]^{0.427} \times .007449$.

Breast tissue regrowth following initial breast reduction in adolescence has been reported (Greydanus, et al., 2006). The growth of the female breast is generally described by five stages referred to as Tanner stages or sexually maturity rating (SMR) stages. A number of clinical correlations are noted with the SMR stages, including the timing of breast reduction at stage V (i.e., mature stage) (DeSilva, et al., 2006). In a review of elective plastic surgical procedures in adolescence, McGrath and Schooler (2004) stated "Breast development is variable but usually plateaus at 15–16 years of age. Reduction mammoplasty is postponed until breast maturity is reached. Occasionally, surgery is considered earlier when severe symptoms are encountered; there is a risk of recurrent hypertrophy, however." In general, breast maturity should have been reached prior to considering breast reduction surgery.

Literature Review

Controlled clinical studies assessing the effectiveness of surgical removal of modest amounts of breast tissue in reducing neck, shoulder, and back pain and related disabilities in women are lacking. Despite the lack of controlled studies, reduction mammoplasty has become the standard of care for a subset of individuals with symptomatic macromastia. Evidence suggests that calculating breast reduction in correlation to each patient's body weight and height can have an effect on reducing preoperative signs and persistent physical conditions. (Cunningham, et al., 2005; Blomqvist, et al., 2004; Souto, et al., 2003; Collins, et al., 2002; Ayhan, et al., 2002; Bruhlmann, et al., 1998)

Chadbourne et al. (2001) conducted a systematic review and meta-analysis of 29 studies of 4173 patients to determine whether reduction mammoplasty improves measurable outcomes in women with breast hypertrophy. Experimental and observational studies were included; no randomized controlled trials were found. Outcomes assessed were postoperative physical signs and symptoms such as shoulder pain, shoulder (bra strap) grooving, and quality-of-life domains, such as physical and psychological functioning, and were expressed primarily as risk differences. The mean body mass index of the patients was 27.5 kg/m² in the observational studies and 29.6 kg/m² in the experimental studies. The average tissue mass removed per breast was approximately 1400 grams. The authors concluded that reduction mammoplasty was associated with a statistically significant improvement in physical signs and symptoms involving shoulder pain, shoulder grooving, upper/lower back pain, neck pain, intertrigo, breast pain, headache, and pain/numbness in the hands. The quality-of-life parameter of physical functioning was also statistically significant, while psychological functioning was not significant. The evidence suggests that women undergoing reduction mammoplasty for breast hypertrophy have significant postoperative improvement in preoperative signs and symptoms, quality of life, or both.

Breast Reduction by Liposuction

Suction lipectomy or ultrasonically-assisted suction lipectomy (liposuction) as a sole procedure has been introduced as an alternative method in reducing breast size. The effectiveness of liposuction, in terms of removing glandular breast tissue, rather than fatty tissue in the breast, remains to be demonstrated. Evidence supporting the effects of this approach on patient outcomes has been limited to case series and there are minimal long-term data comparing this technique to the standard surgical approach (Maskovitz, et al., 2007; ECRI, 2007; Sadove, et al., 2005) .

Professional Societies/Organizations

American Society of Plastic Surgeons (ASPS): The 2002 ASPS position statement, insurance coverage criteria for third-party payors for reduction mammoplasty, recommends that justification for reduction mammoplasty should be based on the probability of relieving the clinical signs and symptoms of macromastia, not the degree of breast hypertrophy present (cup size or amount of tissue removed). The ASPS policy recommends that reduction mammoplasty be considered reconstructive surgery, and medically necessary, for symptomatic macromastia patients when there is documentation of the severity of the symptoms of macromastia and impact on health-related quality of life, as measured by a breast-specific questionnaire. The statement identifies some of the signs or symptoms of macromastia which includes: chronic breast pain due to the weight of the breasts; intertrigo which is unresponsive to medical management; shoulder grooving from bra straps; upper back, neck and shoulder pain; upper extremity paresthesia related to brachial plexus compression syndrome secondary to the weight of the breasts being transferred to the shoulder strap area (ASPS, 2002a). There have been no updates to the ASPS position statement since 2002.

Summary

The evidence in the peer-reviewed published literature supports use of reduction mammoplasty to improve signs and symptoms associated with macromastia. There is a lack of well-designed controlled clinical trials to assess the amount of breast tissue removed and the reduction of signs and symptoms of macromastia. A patient's signs and symptoms and the amount of breast tissue to be resected needs to be evaluated before the performance of reduction mammoplasty for macromastia.

**Appendix A
Schnur Sliding Scale**

Body Surface Area and Cutoff Weight of Breast Tissue Removed

Breast Reduction (gm)		
Body Surface Area (m ²)	Lower 5%	Lower 22%
1.35	127	199
1.40	139	218
1.45	152	238
1.50	166	260
1.55	181	284
1.60	198	310
1.65	216	338
1.70	236	370
1.75	258	404
1.80	282	441
1.85	308	482
1.90	336	527
1.95	367	575
2.00	401	628
2.05	439	687
2.10	479	750
2.15	523	819
2.20	572	895
2.25	625	978
2.30	682	1068
2.35	745	1167
2.40	814	1275
2.45	890	1393
2.50	972	1522
2.55	1062	1662

Schnur Sliding Scale (Schnur, et al., 1991)

Coding/Billing Information

Note: This list of codes may not be all-inclusive.

Covered when medically necessary:

CPT®* Codes	Description
19318	Reduction mammoplasty

ICD-9-CM Diagnosis Codes	Description
611.0	Inflammatory disease of breast
611.1	Hypertrophy of breast
611.3	Fat necrosis of breast
611.71	Mastodynia
611.8	Other specified disorders of breast
692.9	Unspecified cause dermatitis
695.89	Other specified erythematous condition (Intertrigo)
723.1	Cervicalgia
724.1	Pain in thoracic region
724.5	Backache, unspecified
781.92	Abnormal posture
782.0	Disturbance of skin sensation

Unproven/Not Covered when performed as a sole method of treatment for symptomatic macromastia

CPT* Codes	Description
15877	Suction assisted lipectomy; trunk

ICD-9-CM Diagnosis Codes	Description
	All codes

*Current Procedural Terminology (CPT®) © 2008 American Medical Association: Chicago, IL.

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Policy History

Pre-Merger Organizations	Last Review Date	Policy Number	Title
CIGNA HealthCare	8/15/2008	0152	Reduction Mammoplasty
Great-West Healthcare	7/19/2007	95.318.06	Breast Surgery, Reduction Mammoplasty

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