

Orthognathic Surgery Clinical Coverage Criteria

Description

Orthognathic surgery is the surgical correction of abnormalities of the mandible, maxilla, or both. The underlying abnormality may be present at birth, may become evident as the member grows and develops, or may be the result of traumatic injuries. The severity of these deformities precludes adequate treatment through dental treatment alone. The primary goal of orthognathic surgery is to improve function through correction of the underlying skeletal deformity.

Policy

This Policy applies to the following Fallon Health products:

- ☑ Medicare Advantage (Fallon Medicare Plus, Fallon Medicare Plus Central)
- ☑ NaviCare HMO SNP
- ☑ NaviCare SCO
- ☑ PACE (Summit Eldercare PACE, Fallon Health Weinberg PACE)
- □ Community Care

Prior authorization is required for orthognathic surgery.

Note: This policy does not address surgery for obstructive sleep apnea, which is addressed in a separate medical policy. Orthognathic surgery will be considered cosmetic rather than reconstructive when there is no functional impairment present.

Medicare Advantage (Fallon Medicare Plus, Fallon Medicare Plus Central)

Fallon Health complies with CMS's national coverage determinations (NCDs), local coverage determinations (LCDs) of Medicare Contractors with jurisdiction for claims in the Plan's service area, and applicable Medicare statutes and regulations when making medical necessity determinations for Medicare Advantage members. When coverage criteria are not fully established in applicable Medicare statutes, regulations, NCDs or LCDs, Fallon Health may create internal coverage criteria under specific circumstances described at § 422.101(b)(6)(i) and (ii).

Medicare statutes and regulations do not have coverage criteria for orthognathic surgery. Medicare does not have an NCD for orthognathic surgery. National Government Services, Inc., the Part A/B Medicare Administrative Contractor with jurisdiction in the Plan's service area does not have an LCD for orthognathic surgery (Medicare Coverage Database search 04/22/2024), therefore, the Plan's coverage criteria are applicable.

There is related Medicare Benefit Policy Manual guidance:

- Medicare Benefit Policy Manual, Chapter 1 Inpatient Hospital Services, Section 70 Inpatient Services in Connection with Dental Services
- Medicare Benefit Policy Manual, Chapter 15 Covered Medical and Other Health Services, Section 100 – Surgical Dressings, Splints, Casts and Other Devices Used for Reductions of Fractures and Dislocations

- Medicare Benefit Policy Manual, Chapter 15 Covered Medical and Other Health Services, Section 150 - Dental Services
- Medicare Benefit Policy Manual, Chapter 15 Covered Medical and Other Health Services, Section 150.1 - Treatment of Temporomandibular Syndrome
- Medicare Benefit Policy Manual, Chapter 16 General Exclusions from Coverage, Section 120 -Cosmetic Surgery and Section 140 - Dental Services Exclusion

MassHealth ACO

Fallon Health follows Medical Necessity Guidelines published by MassHealth when making medical necessity determinations for MassHealth members. In the absence of Medical Necessity Guidelines published by MassHealth, Fallon Health may create clinical coverage criteria in accordance with the definition of Medical Necessity in 130 CMR 450.204.

MassHealth has Guidelines for Medical Necessity Determination for Orthognathic Surgery (MassHealth website search 04/22/2024), therefore, the Plan's coverage criteria are not applicable.

NaviCare HMO SNP, NaviCare SCO

For plan members enrolled in NaviCare, Fallon Health first follow's CMS's national coverage determinations (NCDs), local coverage determinations (LCDs) of Medicare Contractors with jurisdiction for claims in the Plan's service area, and applicable Medicare statutes and regulations when making medical necessity determinations.

When coverage criteria are not fully established in applicable Medicare statutes, regulations, NCDs or LCDs, or if the NaviCare member does not meet coverage criteria in applicable Medicare statutes, regulations, NCDs or LCDs, Fallon Health then follows Medical Necessity Guidelines published by MassHealth when making necessity determinations for NaviCare members.

PACE (Summit Eldercare PACE, Fallon Health Weinberg PACE)

Each PACE plan member is assigned to an Interdisciplinary Team. PACE provides participants with all the care and services covered by Medicare and Medicaid, as authorized by the interdisciplinary team, as well as additional medically necessary care and services not covered by Medicare and Medicaid. With the exception of emergency care and out-of-area urgently needed care, all care and services provided to PACE plan members must be authorized by the interdisciplinary team.

Fallon Health Clinical Coverage Criteria

Fallon Health considers orthognathic surgery medically necessary for the following conditions when the criteria listed below are met:

- 1. Skeletal deformities contribute to significant masticatory dysfunction, and where the severity of the deformities precludes adequate treatment through dental therapeutics and orthodontics. The classification and analysis of dentofacial skeletal deformities is complex and involves discrepancies in all planes of space. Common examples are congenital anomalies such as cleft lip and palate; apertognathia, lateral or anterior not correctable by orthodontics alone; significant asymmetry of the lower jaw; or significant class II and class III occlusal discrepancies. MassHealth considers orthognathic surgery medically necessary for acquired masticatory dysfunction related to cysts and tumors of the jaws.
- 2. Speech impairments accompanying severe cleft deformity. Orthognathic surgery may help to reduce the flattening of the face that is characteristic of severe cleft deformity. Osteotomy techniques along with bone and cartilage grafts can reposition and surgically reconstruct the upper and lower jaws and facial skeletal framework.
- 3. Where it is documented that mandibular and maxillary deformities are contributing to airway dysfunction, where such dysfunction is not amenable to non-surgical treatments, and where it is shown that orthognathic surgery will decrease airway resistance and improve breathing.

4. Correction of Temporomandibular Joint (TMJ) disorders and temporomandibular disease (TMD) medically necessary for surgical intervention for internal derangement only. Surgery is not indicated for asymptomatic or minimally symptomatic patients. Surgery also is not indicated for preventive reasons in patients without pain and with satisfactory function. The precise etiology of TMJ disease, disorders, dysfunctions and TMD (intracapsular or extracapsular) has not yet been identified; these conditions are believed to be the result of either "macro" or "micro" trauma affecting the joint and/or the associated facial musculature. Specialized radiological studies such as cephalometric x-rays, tomograms, and submental vertex radiographs are considered medically necessary when evaluating persons with TMD for surgical considerations.

Criteria for orthognathic surgery based on "Parameters of Care: AAOMS Clinical Practice Guidelines for Oral and Maxillofacial Surgery, Sixth Edition 2017."

I. Maxillary and/or Mandibular Facial Skeletal Deformities Associated with Masticatory Malocclusion

When skeletal deformities are contributing to significant dysfunction and preclude adequate treatment through dental therapeutics and orthodontics alone.

- 1. Anteroposterior discrepancies. The established norm is 2 millimeters (mm) and the values referenced below represent two or more standard deviations (SDs) from published norms.
 - a. Maxillary/mandibular incisor relationship with horizontal overjet of + 5 mm or horizontal overjet of zero to a negative value.
 - b. Maxillary/mandibular anteroposterior molar relationship discrepancy of 4 mm or more (norm 0 1 mm).
 - c. These values represent two or more SDs from published norms.

2. Vertical discrepancies

- a. Presence of a vertical facial skeletal deformity, which is two or more SDs from published norms for accepted skeletal landmarks.
- b. Open bite with no vertical overlap of anterior teeth or a unilateral or bilateral posterior open bite greater than 2 mm.
- c. Deep overbite with impingement or irritation of buccal or lingual soft tissues of the opposing arch (palatal soft tissues).
- d. Supraeruption of a dentoalveolar segment due to lack of opposing occlusion.

3. Transverse discrepancies

- a. Total bilateral maxillary palatal cusp to mandibular fossa discrepancy of 4 mm or greater, or a unilateral discrepancy of 3 mm or greater, given normal axial inclination of the posterior teeth.
- b. Presence of a transverse skeletal discrepancy which is two or more SDs from published norms.
- 4. Asymmetries. Anteroposterior, transverse or lateral asymmetries greater than 3 mm with concomitant occlusal asymmetry.
- 5. Functional impairments
 - a. Failure to thrive secondary to facial skeletal deformity.
 - b. Persistent difficulty with both swallowing and mastication after metabolic and neurological causes are excluded.

II. Osteotomy Surgery of the Jaws Secondary to Congenital Anomalies

Orthognathic surgery is considered medically necessary for correction of structural abnormalities of the maxilla and mandible secondary to congenital anomalies, as described below:

1. Mid-face anomalies from embryogenesis and anatomic location in the nasal cavity, nasofrontal region, nasolacrimal apparatus, and craniofacial syndrome.

- 2. Mandibular intraoral vertical ramus osteotomy, bilateral sagittal split ramus osteotomy, mandibular osteotomy for congenital micrognathia resulting in respiratory obstruction (i.e. Pierre Robin syndrome.)
- 3. Maxillary deficiency associated with clefts.

Maxilla Osteotomy Procedures

Osteotomy of maxilla with or without graft covers the entire maxillary surgical procedure for the correction of a maxillary skeletal malocclusion. MassHealth covers the "LeFort Procedures" and any sectioning, advancement, retrusion, elevation, or other movement of the maxilla and its fixation. These procedures are mutually exclusive; that is, only one of these procedures can be used for a specific surgery. These procedures include a bilateral inferior turbinectomy, and/or septoplasty, if necessary.

Mandibular Osteotomy Procedures

Osteotomy of mandible with or without graft covers the entire mandibular surgical procedure for the correction of a mandibular skeletal malocclusion. This procedure includes, but is not limited to, a bilateral sagittal or oblique osteotomy, any necessary myotomies, necessary osteotomies of the inferior border of the mandible, coronoidotomies, and any sectioning, advancement, retrusion, elevation, or other movement of the mandible and its fixation. A genioplasty procedure is included in this procedure only if it is done as a part of a larger orthognathic surgical procedure. A genioplasty procedure is a covered service only if it is done for functional reasons. These procedures are mutually exclusive, that is, only one of these procedures can be billed for a specific surgery.

III. Facial Skeletal Discrepancies Associated with Documented Temporomandibular Joint Pathology

Orthognathic surgery for the treatment of temporomandibular disease disorders and dysfunctions is considered medically necessary only when the disorder is caused by or results in a specific medical condition. Examples of specific medical conditions include but are not limited to myofascial pain secondary to skeletal deformity and non-surgical treatment related to disorders and dysfunctions, such as jaw fractures and/or dislocations; rheumatoid, degenerative, or infectious arthritis; condylar atrophy; condylar hyperplasia or hypoplasia; condylar osteolysis; internal derangement; mandibular dislocation; neoplasia; and ankyloses.

In cases where such a medical condition (disorders and dysfunctions) is not present, the provider may submit additional supporting evidence to demonstrate that the requested service is medically necessary. Prior authorization requests for orthognathic surgery for the treatment of temporomandibular disease disorders and dysfunctions must be accompanied by a comprehensive treatment plan that includes all of the following:

- 1. Member history and documentation as to why non-surgical treatment was not an acceptable treatment option or, if already performed, did not achieve adequate results. The appropriate choice of care is specific to each patient based on the type and degree of the patient's disorder and management such as medication (e.g., NSAIDs), orthotic appliance and/or physical therapy.
- 2. The submission of transcranial films in the open, closed, and rest position or the submission of MRI studies with pathology documented by a radiologist.
- 3. A plan of care for continued treatment for example, if follow-up care beyond the included thirty (30) days is required, number of visits, etc.
- 4. A documented second opinion from a provider without professional financial relationship with the surgeon requesting prior authorization. The second opinion must also confirm that non-surgical treatment either is not an acceptable treatment option or, if already performed, did not achieve adequate results.

Orthognathic surgery is not considered medically necessary when:

1. Criteria for orthognathic surgeries as described above are not met.

- 2. Orthognathic surgery where structural abnormalities exist.
- 3. Orthognathic surgery performed primarily for cosmetic purposes.
- 4. Orthognathic surgery performed to reshape or enhance unaesthetic facial features, regardless of whether such features are associated with psychological disorders. Mentoplasty or genial osteotomies/ostectomies (chin surgeries) are always considered cosmetic when performed as an isolated procedure to address genial hypoplasia, hypertrophy, or asymmetry, and may be considered cosmetic when performed with other surgical procedures.
- 5. Orthognathic surgical correction of distortions within the sibilant sound class or for other distortions of speech quality (i.e., hyper-nasal or hypo-nasal speech) without evidence of functional impairment.

Exclusions

- Procedures for the purposes of dentures or dental implants.
- Procedures to treat malocclusions which can be treated by standard dental care or orthodontics.

Summary of Evidence

Scientific studies have shown that many patients with skeletal deformities suffer from a variety of functional impairments including, but not limited to, malocclusions, diminished bite forces, restricted mandibular excursions, swallowing difficulties, qualitative speech disorders, abnormal chewing patterns and temporomandibular disorders. Clinical experience and the literature have demonstrated that, when indicated, orthognathic surgery leads to improvement in a spectrum of functional impairments. The medical appropriateness of these procedures is well-documented in the scientific literature (AAOMS, 2023).

Clinical practice guidelines have been published by AAOMS on criteria for orthognathic surgery (AAOMS, 2023). The AAOMS guidelines have become widely adopted as a tool to assist in determining whether orthognathic surgery is medically indicated. According to the AAOMS there is convincing evidence of the relationship between facial skeletal abnormalities and malocclusions, including Class II, Class III, asymmetry, and open bite deformities. A strong correlation has been demonstrated between the state of the occlusion and chewing efficiency. The guidelines state that surgery may be indicated and medically necessary for:

- Anteroposterior discrepancies: established norm = 2mm
 - Maxillary/mandibular incisor relationship
 - Horizontal overjet of + 5mm or more
 - Horizontal overjet of zero to a negative value
 - Maxillary/mandibular anteroposterior molar relationship discrepancy of 4mm or more (norm 0 to 1mm)
 - These values represent two or more standard deviation from published norms
- Vertical discrepancies
 - Presence of a vertical facial skeletal deformity, which is two or more standard deviations from published norms for accepted skeletal landmarks
 - Open bite
 - No vertical overlap of anterior teeth
 - Unilateral or bilateral posterior open bite greater than 2mm
 - Deep overbite with impingement or irritation of buccal or lingual soft tissues of the opposing arch
 - Supraeruption of a dentoalveolar segment due to lack of occlusion
- Transverse discrepancies
 - Presence of a transverse skeletal discrepancy, which is two or more standard deviations from published norms
 - Total bilateral maxillary palatal cusp to mandibular fossa discrepancy of 4mm or greater, or a unilateral discrepancy of 3mm or greater, given normal axial inclination of the posterior teeth
- Asymmetries
 - Anteroposterior, transverse or lateral asymmetries greater than 3mm with concomitant occlusal asymmetry

These indications provide verifiable clinical measurements to significant facial skeletal deformities, maxillary and/or mandibular facial skeletal deformities associated with masticatory malocclusion. In addition to these conditions, orthognathic surgery may be indicated in cases where there are specific documented signs of dysfunction which may include airway dysfunction (e.g. sleep apnea), temporomandibular joint disorders, psychosocial disorders and speech disorders.

Analysis of Evidence (Rationale for Determination)

Orthognathic surgery is the surgical correction of abnormalities of the mandible (lower jaw), maxilla (upper jaw), or both, to achieve facial and occlusal balance when the severity of orofacial deformities is such that they cannot be treated through orthodontic treatment alone. The evidence for orthognathic surgery includes non-randomized controlled trials and the medical necessity criteria is largely based on the accepted assessment tool from the American Association of Oral and Maxillofacial Surgeons Criteria for Orthognathic Surgery.

Coding

The following codes are included below for informational purposes only; inclusion of a code does not constitute or imply coverage.

Code	Description
21076	Impression and custom preparation; surgical obturator prosthesis
21079	Impression and custom preparation; interim obturator prosthesis
21080	Impression and custom preparation; definitive obturator prosthesis
21081	Impression and custom preparation; mandibular resection prosthesis
21082	Impression and custom preparation; palatal augmentation prosthesis
21083	Impression and custom preparation; palatal lift prosthesis
21120	Genioplasty; augmentation (autograft, allograft, prosthetic material)
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)
21125	Augmentation, mandibular body or angle; prosthetic material
21127	Augmentation, mandibular body or angle; with bone graft, onlay or interpositional (includes obtaining autograft)
21141	Reconstruction midface, LeFort I; single piece, segment movement in any direction (eg, for Long Face Syndrome), without bone graft
21142	Reconstruction midface, LeFort I; 2 pieces, segment movement in any direction, without bone graft
21143	Reconstruction midface, LeFort I; 3 or more pieces, segment movement in any direction, without bone graft
21145	Reconstruction midface, LeFort I; single piece, segment movement in any direction, requiring bone grafts (includes obtaining autografts)
21146	Reconstruction midface, LeFort I; 2 pieces, segment movement in any direction, requiring bone grafts (includes obtaining autografts) (eg, ungrafted unilateral alveolar cleft)
21147	Reconstruction midface, LeFort I; 3 or more pieces, segment movement in any direction, requiring bone grafts (includes obtaining autografts) (eg, ungrafted bilateral alveolar cleft or multiple osteotomies)
21150	Reconstruction midface, LeFort II; anterior intrusion (eg, Treacher-Collins Syndrome)

04454	December with a midden La Fort II, any direction requiring home grafts
21151	Reconstruction midface, LeFort II; any direction, requiring bone grafts (includes obtaining autografts)
21154	Reconstruction midface, LeFort III (extracranial), any type, requiring bone
	grafts (includes obtaining autografts); without LeFort I
21155	Reconstruction midface, LeFort III (extracranial), any type, requiring bone
	grafts (includes obtaining autografts); with LeFort I
21188	Reconstruction midface, osteotomies (other than LeFort type) and bone
	grafts (includes obtaining autografts)
21193	Reconstruction of mandibular rami, horizontal, vertical, C, or L
21194	osteotomy; without bone graft Reconstruction of mandibular rami, horizontal, vertical, C, or L
	osteotomy; with bone graft (includes obtaining graft)
21195	Reconstruction of mandibular rami and/or body, sagittal split; without
	internal rigid fixation
21196	Reconstruction of mandibular rami and/or body, sagittal split; with internal
	rigid fixation
21198	Osteotomy, mandible, segmental;
21199	Osteotomy, mandible, segmental; with genioglossus advancement
21206	Osteotomy, maxilla, segmental (eg, Wassmund or Schuchard)
21208	Osteoplasty, facial bones; augmentation (autograft, allograft, or prosthetic
	implant)
21209	Osteoplasty, facial bones; reduction
21210	Graft, bone; nasal, maxillary or malar areas (includes obtaining graft)
21215	Graft, bone; mandible (includes obtaining graft)
21230	Graft; rib cartilage, autogenous, to face, chin, nose or ear (includes
	obtaining graft)
21244	Reconstruction of mandible, extraoral, with transosteal bone plate (eg,
21245	mandibular staple bone plate) Reconstruction of mandible or maxilla, subperiosteal implant; partial
21246	Reconstruction of mandible or maxilla, subperiosteal implant, partial
	Reconstruction of mandibular condyle with bone and cartilage autografts
21247	(includes obtaining grafts) (eg, for hemifacial microsomia)
21248	Reconstruction of mandible or maxilla, endosteal implant (eg, blade,
	cylinder); partial
21249	Reconstruction of mandible or maxilla, endosteal implant (eg, blade,
04055	cylinder); complete
21255	Reconstruction of zygomatic arch and glenoid fossa with bone and
21270	cartilage (includes obtaining autografts) Malar augmentation, prosthetic material
21275	Secondary revision of orbitocraniofacial reconstruction
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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
21230	masseteric hypertrophy); intraoral approach
21299	Unlisted craniofacial and maxillofacial procedure
42226	Lengthening of palate, and pharyngeal flap
42227	Lengthening of palate, with island flap
42235	Repair of anterior palate, including vomer flap
42280	Maxillary impression for palatal prosthesis
42281	Insertion of pin-retained palatal prosthesis
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References

- MassHealth Guidelines for Medical Necessity Determination for Orthognathic Surgery. Policy Revision Effective Date: October 4, 2022. Supersedes Policy Dated October 16, 2018. Available at: https://www.mass.gov/files/documents/2018/10/16/mg-orthognathicsurgery_0.pdf. Accessed 04/22/2024.
- 2. American Association of Oral and Maxillofacial Surgeons Parameters of Care: AAOMS Clinical Practice Guidelines for Oral and Maxillofacial Surgery, Seventh Edition, 2023.
- 3. American Association of Oral and Maxillofacial Surgeons (AAOMS). Clinical Paper. Criteria for Orthognathic Surgery. 2023. Available at: https://www.aaoms.org/practice-resources/aaoms-advocacy-and-position-statements/clinical-resources. Accessed 04/22/2024.

Policy history

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section), 04/23/2024 (annual review; coverage criteria unchanged).

Not all services mentioned in this policy are covered for all products or employer groups. Coverage is based upon the terms of a member's particular benefit plan which may contain its own specific provisions for coverage and exclusions regardless of medical necessity. Please consult the product's Evidence of Coverage for exclusions or other benefit limitations applicable to this service or supply. If there is any discrepancy between this policy and a member's benefit plan, the provisions of the benefit plan will govern. However, applicable state mandates take precedence with respect to fully-insured plans and self-funded non-ERISA (e.g., government, school boards, church) plans. Unless otherwise specifically excluded, federal mandates will apply to all plans.