

POLICY NUMBER	LAST REVIEW DATE	APPROVED BY
MG.MM.SU.59	04/11/2025	MPC (Medical Policy Committee)

#### IMPORTANT NOTE ABOUT THIS MEDICAL POLICY:

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#### **Definitions**

Orthognathic surgery	A class of surgical procedures designed to realign the maxillofacial skeletal structures with each other and with the other craniofacial structures. This surgery usually involves the maxilla and/or mandible, but other bony components may be involved as well.  Orthognathic surgery can be performed to correct malocclusion, which
	cannot be improved with routine orthodontic therapy and where the functional impairments are directly caused by the malocclusion. The surgical goal is to improve function through correcting the underlying skeletal deformity that contributes to chewing, breathing and swallowing dysfunction.
Maxillary surgery	A type of orthognathic surgery that may be necessary to improve the facial contour and normalize dental occlusion when there is a relative antero-posterior or lateral deficiency, or asymmetry, of the midface region. This is done by surgically moving the



	maxilla with sophisticated bone mobilization techniques and fixing it securely into place.
Mandibular surgery	Can be performed in conjunction with or separate from maxillary surgery. The mandible can be advanced, set back, tilted or augmented with bone grafts. A combination of these procedures may be necessary. Following any significant surgical movement of the mandible, fixation may be accomplished with mini- plates and screws or with a combination of interosseous wires and intermaxillary fixation (IMF). Rigid fixation (screws and plates) has the advantage of needing limited or no IMF. However, if interosseous wiring is used, IMF is maintained for approximately 6 weeks.
Malocclusion	<ul> <li>Class II malocclusion: Occurs when the mandibular teeth are distal or behind the normal relationship with the maxillary teeth. This can be due to a deficiency of the lower jaw or an excess of the upper jaw, and therefore, presents two types: (1) Division I is when the mandibular arch is behind the upper jaw with a consequential protrusion of the upper front teeth. (2) Division II exists when the mandibular teeth are behind the upper teeth, with a retrusion of the maxillary front teeth. Both of these malocclusions have a tendency toward a deep bite because of the uncontrolled migration of the lower front teeth upwards. Commonly referred to as an overbite.</li> <li>Class III malocclusion: Occurs when the lower dental arch is in front of (mesial to) the upper dental arch. People with this type of occlusion usually have a strong or protrusive chin, which can be due to either horizontal mandibular excess or horizontal maxillary deficiency. Commonly referred to as an under bite.</li> <li>Cross bite.</li> </ul>
Occlusion	Bringing the opposing surfaces of the teeth of the two jaws (mandible and maxilla) into contact with each other.
Supraeruption	The occurrence of a tooth continuing to grow out of the gum if the opposing tooth in the opposite jaw is missing.
Genioplasty	Plastic surgery of the chin (See <u>Limitations/Exclusions</u> )

#### **Related Medical Guidelines**

Cosmetic and Reconstructive Surgery Procedures

#### Guideline

Note: Expenses associated with the pre-and-post surgical orthodontic component of are considered dental in nature and not covered under the member's Medical Benefit.

**I.** Orthognathic surgery is medically necessary for correcting the following skeletal deformities of the maxilla or mandible when the deformities are directly attributable to Proprietary information of ConnectiCare. © 2025 ConnectiCare, Inc. & Affiliates



significant dysfunction that precludes dental/orthodontic therapeutics or when intra-oral trauma to soft tissues occurs through mastication secondary to malocclusion:

#### A. Anteroposterior discrepancies defined as either:

- 1. Maxillary/mandibular incisor relationship; any:
  - a. Horizontal overjet of  $\geq 5$  millimeter (mm)
  - b. Zero to a negative value (norm 2mm)
- 2. Maxillary/mandibular anteroposterior molar relationship discrepancy of ≥ 4 mm (norm is 0–1 mm)

Numeric values above represent  $\geq 2$  standard deviations (SDs) from published norms.

#### B. Vertical discrepancies; defined as any:

- Vertical facial skeletal deformity of ≥ 2 SDs from norms for accepted skeletal landmarks
- 2. Open Bite; either:
  - a. No vertical overlap of anterior teeth
  - b. Unilateral or bilateral posterior open bite > 2 mm
- 3. Deep overbite with impingement or irritation of buccal, palatal or lingual soft tissues of the opposing arch
- 4. Supraeruption of a dentoalveolar segment secondary to lack of opposing occlusion that creates dysfunction not amenable to conventional prosthetics

#### C. Transverse discrepancies; defined as either:

- 1. Transverse skeletal discrepancy ≥ 2 SDs from norms
- 2. Total bilateral maxillary palatal cusp to mandibular fossa discrepancy of  $\geq$  4 mm, or unilateral discrepancy  $\geq$  3 mm (given normal axial inclination of the posterior teeth)
- D. Asymmetries; defined as anteroposterior, transverse or lateral asymmetries > 3 mm with concomitant occlusal asymmetry such as a maxillary cant or a cross-bite malocclusion

### II. Facial Skeletal Discrepancies Associated with Documented Sleep Apnea, Airway Defects, and Soft Tissue Discrepancies

Orthognathic surgery is considered medically necessary for members with underlying congenital and acquired (i.e., post-traumatic or post-ablative) craniofacial skeletal deformities that are contributing to obstructive sleep apnea or other demonstrated significant functional deficiency. (See MCG # A-0247 Mandibular Osteotomy, # A-0248 Maxillomandibular Osteotomy and Advancement, or # SG-HNS Head and Neck Surgery or Procedure, as applicable)

#### **III. Speech Impairments**

Orthognathic surgery is medically necessary for the treatment of speech abnormalities (as determined by a speech pathologist or therapist) when the impairment is secondary to a malocclusion (e.g., from cleft deformity), and when post-surgical improvement can be expected (as determined by a speech pathologist) which is refractory to either:

- 1. Orthodontia management
- 2. At least 6 months of speech therapy



#### **Documentation**

The following documentation must be submitted to the plan for medical necessity consideration:

- 1. Evidence of skeletal, facial or craniofacial deformity demonstrated by study models (plaster, printed, or digital) and pre-orthodontic photographic and radiographic imaging and cephalometric analysis
- 2. Medical record detailing the following:
  - a. Objective findings (i.e., functional impairment directly attributable to skeletal abnormality)
  - b. Symptoms (e.g., dysphagia, choking), clinical course/treatment history

#### **Limitations/Exclusions**

- 1. Orthognathic surgery is considered cosmetic (and therefore not medically necessary) when anatomic variation is normal, and the member wishes to alter physical appearance in order to improve aesthetics. (Psychological motivation [e.g., self-esteem] is not a factor for plan-consideration).
- 2. Three-dimensional virtual treatment planning of orthogonathic surgery regarded as investigational and not medically necessary, as effectiveness has not been established.
- 3. Orthognathic surgery is considered investigational for correcting articulation disorders (except in the presence of severe cleft palate; indicated above) and other impairments in the production of speech due to insufficient evidence of therapeutic value in the published peer-reviewed medical literature.
- 4. Orthognathic surgery is not considered medically necessary for the correction of sibilant sound-class distortions or other speech quality distortions (e.g., hyper-nasal or hyponasal speech) because the distortions do not cause functional impairment.
- 5. Condylar positioning devices in orthognathic surgery are experimental and investigational because their effectiveness in orthognathic surgery has not been established
- 6. Orthognathic surgery for temporomandibular joint disease (TMJ) or myofascial pain dysfunction is considered investigational due to insufficient evidence of therapeutic value for these indications.
- 7. Genioplasty is considered cosmetic and not medically necessary

#### **Procedure Codes**

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
21125	Augmentation, mandibular body or angle; prosthetic material
21127	Augmentation, mandibular body or angle; with bone graft, onlay or interpositional (includes

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	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)
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 osteotomy; without bone graft
21194	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, mandibular staple bone plate)
21245	Reconstruction of mandible or maxilla, subperiosteal implant; partial
21246	Reconstruction of mandible or maxilla, subperiosteal implant; complete



econstruction of mandibular condyle with bone and cartilage autografts (includes obtaining afts) (eg, for hemifacial microsomia) econstruction of mandible or maxilla, endosteal implant (eg, blade, cylinder); partial econstruction of mandible or maxilla, endosteal implant (eg, blade, cylinder); complete
econstruction of mandible or maxilla, endosteal implant (eq. blade, cylinder); complete
(3) 2.225, 2,doi) (3)
econstruction of zygomatic arch and glenoid fossa with bone and cartilage (includes obtaining tografts)
alar augmentation, prosthetic material
econdary revision of orbitocraniofacial reconstruction
eduction of masseter muscle and bone (eg, for treatment of benign masseteric hypertrophy); traoral approach
eduction of masseter muscle and bone (eg, for treatment of benign masseteric hypertrophy); traoral approach
nlisted craniofacial and maxillofacial procedure
ngthening of palate, and pharyngeal flap
ngthening of palate, with island flap
pair of anterior palate, including vomer flap
axillary impression for palatal prosthesis
sertion of pin-retained palatal prosthesis
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### **Diagnosis Codes**

G47.33 Obstructive sleep apnea (adult) (pediatric)  M26.00 Unspecified anomaly of jaw size  M26.01 Maxillary hyperplasia  M26.02 Maxillary hypoplasia  M26.03 Mandibular hyperplasia  M26.04 Mandibular hypoplasia  M26.05 Macrogenia  M26.06 Microgenia  M26.07 Excessive tuberosity of jaw  M26.09 Other specified anomalies of jaw size  M26.10 Unspecified anomaly of jaw-cranial base relationship  M26.11 Maxillary asymmetry  M26.12 Other jaw asymmetry  M26.19 Other specified anomalies of jaw-cranial base relationship		
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M26.11 Maxillary asymmetry M26.12 Other jaw asymmetry	M26.09	Other specified anomalies of jaw size
M26.12 Other jaw asymmetry	M26.10	Unspecified anomaly of jaw-cranial base relationship
	M26.11	Maxillary asymmetry
M26.19 Other specified anomalies of jaw-cranial base relationship	M26.12	Other jaw asymmetry
	M26.19	Other specified anomalies of jaw-cranial base relationship
M26.20 Unspecified anomaly of dental arch relationship	M26.20	Unspecified anomaly of dental arch relationship
M26.211 Malocclusion, Angle's class I	M26.211	Malocclusion, Angle's class I



M26.212	Malocclusion, Angle's class II
M26.213	Malocclusion, Angle's class III
M26.219	Malocclusion, Angle's class, unspecified
M26.220	Open anterior occlusal relationship
M26.221	Open posterior occlusal relationship
M26.23	Excessive horizontal overlap
M26.24	Reverse articulation
M26.25	Anomalies of interarch distance
M26.29	Other anomalies of dental arch relationship
M26.30	Unspecified anomaly of tooth position of fully erupted tooth or teeth
M26.31	Crowding of fully erupted teeth
M26.32	Excessive spacing of fully erupted teeth
M26.33	Horizontal displacement of fully erupted tooth or teeth
M26.34	Vertical displacement of fully erupted tooth or teeth
M26.35	Rotation of fully erupted tooth or teeth
M26.36	Insufficient interocclusal distance of fully erupted teeth (ridge)
M26.37	Excessive interocclusal distance of fully erupted teeth
M26.39	Other anomalies of tooth position of fully erupted tooth or teeth
M26.4	Malocclusion, unspecified
M26.50	Dentofacial functional abnormalities, unspecified
M26.51	Abnormal jaw closure
M26.52	Limited mandibular range of motion
M26.53	Deviation in opening and closing of the mandible
M26.54	Insufficient anterior guidance
M26.55	Centric occlusion maximum intercuspation discrepancy
M26.56	Non-working side interference
M26.57	Lack of posterior occlusal support
M26.59	Other dentofacial functional abnormalities
M26.70	Unspecified alveolar anomaly
M26.71	Alveolar maxillary hyperplasia
M26.72	Alveolar mandibular hyperplasia
M26.73	Alveolar maxillary hypoplasia
M26.74	Alveolar mandibular hypoplasia
M26.79	Other specified alveolar anomalies
M26.81	Anterior soft tissue impingement
M26.82	Posterior soft tissue impingement
M26.89	Other dentofacial anomalies
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M26.9	Dentofacial anomaly, unspecified
Q35.1	Cleft hard palate
Q35.3	Cleft soft palate
Q35.5	Cleft hard palate with cleft soft palate
Q35.7	Cleft uvula
Q35.9	Cleft palate, unspecified
Q36.0	Cleft lip, bilateral
Q36.1	Cleft lip, median
Q36.9	Cleft lip, unilateral
Q37.0	Cleft hard palate with bilateral cleft lip
Q37.1	Cleft hard palate with unilateral cleft lip
Q37.2	Cleft soft palate with bilateral cleft lip
Q37.3	Cleft soft palate with unilateral cleft lip
Q37.4	Cleft hard and soft palate with bilateral cleft lip
Q37.5	Cleft hard and soft palate with unilateral cleft lip
Q37.8	Unspecified cleft palate with bilateral cleft lip
Q37.9	Unspecified cleft palate with unilateral cleft lip

#### References

Aghabeigi B, Hiranaka D, Keith DA, et al. Effect of orthognathic surgery on the temporomandibular joint in patients with anterior open bite. Int J Adult Orthodon Orthognath Surg. 2001; 16(2):153-160.

Ahn SJ, Kim JT, Nahm DS. Cephalometric markers to consider in the treatment of Class II Division malocclusion with the bionator. Am J Orthod Dentofacial Orthop. 2001; 119(6):578-586.

American Association of Oral and Maxillofacial Surgeons. Criteria for Orthognathic Surgery.2013. <a href="https://www.aaoms.org/docs/practice-resources/clinical-resources/ortho-criteria.pdf">https://www.aaoms.org/docs/practice-resources/clinical-resources/ortho-criteria.pdf</a>. Accessed April 21, 2025.

American Association of Oral and Maxillofacial Surgeons. Guidelines to the evaluation of impairment of the oral and maxillofacial region. 2008.

https://www.aaoms.org/docs/practice\_resources/clinical\_resources/impairment\_guidelines.pdf. Accessed April 21, 2025.

American Association of Oral and Maxillofacial Surgeons. Parameters of Care: Clinical Practice Guidelines for Oral and Maxillofacial Surgery sixth ed 2017.

http://www.aaoms.org/images/uploads/pdfs/parcare assessment.pdf. Accessed April 21, 2025.

Cheung LK, Lo J. The long-term clinical morbidity of mandibular step osteotomy. Int J Adult Orthod Orthognath Surg. 2002; 17(4):283-290.

Han H, Davidson WM. A useful insight into 2 occlusal indexes: HLD(Md) and HLD(CalMod). Am J Orthod Dentofacial Orthop. 2001; 120(3):247-253.

Huang CS, Hsu SS, Chen YR. Systematic review of the surgery-first approach in orthognathic

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surgery. Biomed J. 2014; 37(4):184-190.

Incisivo V, Silvestri A. The reliability and variability of SN and PFH reference planes in cephalometric diagnosis and therapeutic planning of dentomaxillofacial malformations. J Craniofacial Surg. 2000; 11(1):31-38.

Kim JC, Mascarenhas AK, Joo BH, et al. Cephalometric variables as predictors of Class II treatment outcome. Am J Orthod Dentofacial Orthop. 2000; 118(6):636-640.

Mihalik CA, Profitt WR, Phillps C. Long-term follow-up of Class II adults treated with orthodontic camouflage: a comparison with orthognathic surgery outcomes. Am J Orthod Dentofacial Orthop. 2003; 123(3):266-278.

Nickel JC, Yao P, Spalding PM, Iwasaki LR. Validated numerical modeling of the effects of combined orthodontic and orthognathic surgical treatment on TMJ loads and muscle forces. Am J Orthod Dentofacial Orthop. 2002; 121(1):73-83.

Oguri Y, Yamada K, Fukui T, et al. Mandibular movement and frontal craniofacial morphology in orthognathic surgery patients with mandibular deviation and protrusion. J Oral Rehabil. 2003; 30(4):392-400.

Oomens MA, Verlinden CR, Goey Y, Forouzanfar T. Prescribing antibiotic prophylaxis in orthognathic surgery: a systematic review. Int J Oral Maxillofac Surg. 2014; 43(6):725-731.

Park JE, Baik SH. Classification of angle Class III malocclusion and its treatment modalities. Int J Adult Orthod Orthognath Surg. 2001; 16(1):19-29.

Ruf S, Pancherz H. Orthognathic surgery and dentofacial orthopedics in adult Class II Division 1 treatment: mandibular sagittal split osteotomy versus Herbst appliance. Am J Orthod Dentofacial Orthop. 2004; 126(2):140-152.

Stellzig-Eisenhauser A, Lux CJ, Schuster G. Treatment decision in adult patients with Class III malocclusion: orthodontic therapy or orthognathic surgery? Am J Orthod Dentofacial Orthop. 2002; 122(1):27-38.

Wolford LM, Karras S, Mehra P. Concomitant temporomandibular joint and orthognathic surgery: a preliminary report. J Oral Maxillofac Surg. 2002; 60(4):356-362.

Wolford LM, Karras SC, Mehra P. Consideration for orthognathic surgery during growth, part 1: mandibular deformities. Am J Orthod Dentofacial Orthop. 2001; 119(2):95-101.

Wolford LM, Karras SC, Mehra P. Consideration for orthognathic surgery during growth, part 2: maxillary deformities. Am J Orthod Dentofacial Orthop. 2001; 119(2):102-105.

Yamada K, Hanada K, Hayashi T, Ito J. Condylar bony change, disk displacement, and signs and symptoms of TMJ disorders in orthognathic surgery patients. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2001; 91(5):603-610.

Specialty matched clinical peer review.



### **Revision history**

DATE	REVISION
04/11/2025	Amended/reworded maxillary advancement definition  Added cross bite as a type of malocclusion  Added cephalometric analysis as required documentation
07/28/2023	Substituted link to Obstructive Sleep Apnea policy with references to MCG criteria in Section II — Facial Skeletal Discrepancies Associated with Documented Sleep Apnea, Airway Defects, and Soft Tissue Discrepancies
04/14/2023	Added that post-surgical improvement should be determined by a speech pathologist RE speech impairments  Added maxillary cant and cross-bite malocclusion as examples of asymmetries  Added clarification that plaster, printed, or digital study models may be submitted as evidentiary documentation