

**Subject:** Temporomandibular Disorders

**Document #:** CG-SURG-09

**Publish Date:** ~~04/24/2019~~09/20/  
2018

**Status:** ~~Reviewed~~Revised

**Last Review Date:** 03/21/2019~~8~~

## Description

This document addresses temporomandibular joint (TMJ) and related musculoskeletal structure disorders commonly called temporomandibular disorders (TMD), a collective term for temporomandibular joint dysfunction (TMJD), temporomandibular joint (TMJ) syndrome, and craniomandibular disorder (CMD).

**Note:** Please refer to the following documents for additional information concerning on related topics:

- [CG-ANC-03 Acupuncture](#)
- [CG-DME-04 Electrical Nerve Stimulation, Transcutaneous, Percutaneous](#)
- [CG-DRUG-29 Hyaluronan Injections](#)
- [CG-REHAB-04 Physical Therapy](#)
- ~~[CG-SURG-84 Mandibular/Maxillary \(Orthognathic\) Surgery](#)~~
- ~~\_\_\_\_\_~~
- [DME.00011 Electrical Stimulation as a Treatment for Pain and Related Conditions: Surface and Percutaneous Devices](#)
- [MED.00002 Selected Sleep Testing Services](#)
- [MED.00007 Prolotherapy for Joint and Ligamentous Conditions](#)
- [SURG.00140 Peripheral Nerve Blocks for Treatment of Neuropathic Pain](#)
- [SURG.00144 Occipital Nerve Block Therapy for the Treatment of Headache and Occipital Neuralgia](#)
- ~~[CG-SURG-84 Mandibular/Maxillary \(Orthognathic\) Surgery](#)~~

## Clinical Indications

This Clinical UM Guideline is intended to provide assistance in interpreting Healthy Blue's standard Medicaid benefit plan. When evaluating insurance coverage for the provision of medical care, federal, state and/or contractual requirements must be referenced, since these may limit or differ from the standard benefit plan. In the event of a conflict, the federal, state and/or contractual requirements for the applicable benefit plan coverage will govern. Healthy Blue reserves the right to modify its Policies and Guidelines as necessary and in accordance with legal and contractual requirements. This Clinical UM Guideline is provided for informational purposes. It does not constitute medical advice. Healthy Blue may also use tools and criteria developed by third parties, to assist us in administering health benefits. Healthy Blue's Policies and Guidelines are intended to be used in accordance with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice.

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**Medically Necessary:**

**Nonsurgical treatments** considered **medically necessary** for temporomandibular disorders include the following:

A. Behavioral therapy;

~~A.B.~~ Reversible, removable, intraoral appliances including but not limited to occlusal splints, bite appliances and mandibular occlusal repositioning appliances such as removable splints;

~~B.C.~~ Pharmacologic therapy (that is, analgesics, anti-inflammatory drugs, and muscle relaxants);

~~C.D.~~ Physical therapy;

~~D.E.~~ Therapeutic injections.

**Surgical procedures** considered **medically necessary** for temporomandibular disorders when “Criteria A and B” listed below are met include the following:

A. Arthrocentesis;

B. Arthroscopic surgery;

C. Manipulation for reduction of fracture or dislocation;

D. Open surgical procedures, including arthroplasty, condylectomy, modified condylotomy, disc or meniscus plication, and disc removal when the temporomandibular disorder is the result of congenital anomalies, disease, or trauma;

E. TMJ arthroplasty with prosthetic implants, may be considered for U.S. Food and Drug Administration (FDA) approved prostheses only.

**Criteria A and B:**

A. Temporomandibular joint internal derangement or other structural joint disorder is documented as evidenced by **BOTH** of the following:

1. Completion of skeletal growth for individuals under age 18 with long bone x-ray or serial cephalometrics showing no change in facial bone relationships over the last three to six month period (Note: individuals age 18 and older do not require this documentation); **and**

2. Computed tomography (CT), magnetic resonance imaging (MRI), or x-ray of the temporomandibular joint documents joint pathology (for example, arthritis, bone cyst, fracture, meniscal abnormality, or tumors);

**and**

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**Temporomandibular Disorders**

- B. Temporomandibular joint pain or a clinically significant functional impairment, **NOT** due to a maxillary/mandibular skeletal deformity **and** refractory to at least six months of non-surgical treatment to include at least **ONE** of the following:
1. Behavioral therapy; **or**
  2. Pharmacologic therapy (that is, analgesics, nonsteroidal anti-inflammatory drugs, muscle relaxants); **or**
  3. Physical therapy; **or**
  4. Reversible, removable, intraoral appliances such as removable splints; **or**
  5. Therapeutic injections.

**Not Medically Necessary:**

**Nonsurgical treatments** considered **not medically necessary** for temporomandibular disorders include, but are not limited to, the following:

- ~~A.~~ Biofeedback;
- ~~A.B.~~ Laser therapies (low [~~cold~~] and high power);
- ~~B.C.~~ Dental devices for joint range of motion or for development of muscles used in jaw function;
- ~~C.D.~~ Dental prostheses (for example, dentures; implants);
- ~~D.E.~~ Dental restorations (for example, bridgework; crowns);
- ~~E.F.~~ Electrogalvanic stimulation (EGS);
- ~~G.~~ Iontophoresis;
- ~~H.~~ Intra-articular injections of hyaluronic acid;
- ~~I.~~ Jaw motion rehabilitation systems;
- ~~J.~~ Mandibular advancement repositioning devices for snoring and obstructive sleep apnea;
- ~~F.~~
- ~~G.K.~~ Occlusal equilibration, bite adjustment, irreversible occlusion therapy;
- ~~L.~~ Orthodontic services such as braces, retainers, aligners and devices used to facilitate orofacial reorganization and oral motor function; and application of a mandibular advancement repositioning device.
- ~~M.~~ Prolotherapy;
- ~~H.N.~~ Transcutaneous electrical nerve stimulation (TENS).

**Surgical procedures** considered **not medically necessary** for temporomandibular disorders include, but are not limited to, the following:

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Temporomandibular Disorders

- A. Dental implants;
- B. Dental restorations;
- C. Extraction of wisdom teeth;
- D. Orthodontic services;
- ~~E. TMJ arthroplasty implants that are not FDA approved.~~

**Diagnostic Testing:**

The following procedures are considered **not medically necessary** when used to diagnose or evaluate temporomandibular disorders:

- A. Computerized mandibular scan (intended to document deviations in occlusion and muscle spasm by recording muscle activity related to mandibular movement or positioning);
- B. Intra-oral tracing or gothic arch tracing (intended to document deviations in jaw positioning);
- C. Electromyography (including percutaneous or surface electrode methods);
- ~~D.~~ Kinesiography;
- ~~E.~~ Laryngeal function studies;
- ~~D-F.~~ Rhinomanometry;
- ~~E-G.~~ Somatosensory testing/neuromuscular junction testing;
- ~~H.~~ Sonogram (ultrasonic Doppler auscultation);
- ~~F-I.~~ Swallowing studies or tests;
- ~~G-J.~~ Standard dental x-rays;
- ~~H-K.~~ Thermography;
- ~~H-L.~~ Transcranial or lateral skull x-ray.

**Coding**

The following codes for treatments and procedures applicable to this document are included below for informational purposes. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

**CPT**

*Including, but not limited to, the following:*

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**Temporomandibular Disorders**

20605	Arthrocentesis, aspiration and/or injection, intermediate joint or bursa (eg, temporomandibular, acromioclavicular, wrist, elbow or ankle, olecranon bursa); without ultrasound guidance
20606	Arthrocentesis, aspiration and/or injection, intermediate joint or bursa (eg, temporomandibular, acromioclavicular, wrist, elbow or ankle, olecranon bursa); with ultrasound guidance, with permanent recording and reporting
21010	Arthrotomy, temporomandibular joint
21050	Condylectomy, temporomandibular joint (separate procedure)
21060	Meniscectomy, partial or complete, temporomandibular joint (separate procedure)
21073	Manipulation of temporomandibular joint(s) (TMJ), therapeutic, requiring an anesthesia service (i.e., general or monitored anesthesia care)
21110	Application of interdental fixation device for conditions other than fracture or dislocation, includes removal
21116	Injection procedure for temporomandibular joint arthrography
21210	Graft, bone; nasal, maxillary or malar areas (includes obtaining graft)
21240	Arthroplasty, temporomandibular joint, with or without autograft (includes obtaining graft)
21242	Arthroplasty, temporomandibular joint, with allograft
21243	Arthroplasty, temporomandibular joint, with prosthetic joint replacement
29800	Arthroscopy, temporomandibular joint, diagnostic, with or without synovial biopsy (separate procedure)
29804	Arthroscopy, temporomandibular joint, surgical
<u>97033</u>	<u>Application of a modality to one or more areas; iontophoresis, each 15 minutes</u> <u>Note: Iontophoresis for temporomandibular disorders is considered not medically necessary.</u>
<b>HCPCS</b>	
D7810	Open reduction of dislocation
D7820	Closed reduction of dislocation
D7830	Manipulation under anesthesia
D7840	Condylectomy

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**Temporomandibular Disorders**

D7850	Surgical discectomy, with/without implant
D7852	Disc repair
D7854	Synovectomy
D7856	Myotomy
D7858	Joint reconstruction
D7860	Arthrotomy
D7865	Arthroplasty
D7870	Arthrocentesis
D7871	Nonarthroscopic lysis and lavage
D7873	Arthroscopy- surgical: lavage and lysis of adhesions
D7874	Arthroscopy- surgical: disc repositioning and stabilization
D7875	Arthroscopy- surgical: synovectomy
D7876	Arthroscopy- surgical: discectomy
D7877	Arthroscopy- surgical: debridement
D7880	Occlusal orthotic appliance
D7899	Unspecified TMD therapy, by report
<del>D9940</del>	<del>Occlusal guards, by report</del>
<a href="#">D9130</a>	<a href="#">Temporomandibular joint dysfunction - non-invasive physical therapies</a>
<a href="#">D9920</a>	<a href="#">Behavior management, by report</a>
D9950	Occlusion analysis- mounted case
D9951	Occlusal adjustment- limited
D9952	Occlusal adjustment- complete
E1700	Jaw motion rehabilitation system
E1701	Replacement cushions for jaw motion rehabilitation system, package of 6
E1702	Replacement measuring scales for jaw motion rehabilitation system, package of 200

**ICD-10 Procedure**

0RBC0ZZ	Excision of right temporomandibular joint, open approach
0RBC3ZZ	Excision of right temporomandibular joint, percutaneous approach
0RBC4ZZ	Excision of right temporomandibular joint, percutaneous endoscopic approach
0RBD0ZZ	Excision of left temporomandibular joint, open approach

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**Temporomandibular Disorders**

0RBD3ZZ	Excision of left temporomandibular joint, percutaneous approach
0RBD4ZZ	Excision of left temporomandibular joint, percutaneous endoscopic approach
0RQC0ZZ-0RQC4ZZ	Repair right temporomandibular joint [includes codes 0RQC0ZZ, 0RQC3ZZ, 0RQC4ZZ]
0RQD0ZZ-0RQD4ZZ	Repair left temporomandibular joint [includes codes 0RQD0ZZ, 0RQD3ZZ, 0RQD4ZZ]
0RSC04Z-0RSCXZZ	Reposition right temporomandibular joint [includes codes 0RSC04Z, 0RSC0ZZ, 0RSC34Z, 0RSC3ZZ, 0RSC44Z, 0RSC4ZZ, 0RSCX4Z, 0RSCXZZ]
0RSD04Z-0RSDXZZ	Reposition left temporomandibular joint [includes codes 0RSD04Z, 0RSD0ZZ, 0RSD34Z, 0RSD3ZZ, 0RSD44Z, 0RSD4ZZ, 0RSDX4Z, 0RSDXZZ]
0RUC07Z-0RUC4KZ	Supplement right temporomandibular joint [includes codes 0RUC07Z, 0RUC0JZ, 0RUC0KZ, 0RUC37Z, 0RUC3JZ, 0RUC3KZ, 0RUC47Z, 0RUC4JZ, 0RUC4KZ]
0RUD07Z-0RUD4KZ	Supplement left temporomandibular joint [includes codes 0RUD07Z, 0RUD0JZ, 0RUD0KZ, 0RUD37Z, 0RUD3JZ, 0RUD3KZ, 0RUD47Z, 0RUD4JZ, 0RUD4KZ]

**ICD-10 Diagnosis**

G44.89	Other headache syndrome
M19.91	Primary osteoarthritis, unspecified site
M26.50-M26.59	Dentofacial functional abnormalities
M26.601-M26.69	Temporomandibular joint disorders
M79.10-M79.12	Myalgia, unspecified; mastication muscle; auxiliary muscles, head and neck
S03.0XXA-S03.0XXS	Dislocation of jaw [includes codes S03.0XXA, S03.0XXD, S03.0XXS]

**Discussion/General Information**

Temporomandibular disorders (TMD) is a collective term for temporomandibular joint dysfunction (TMJD), temporomandibular joint (TMJ) syndromes, and craniomandibular disorder (CMD), that includes a variety of medical and dental conditions involving the masticatory muscles and the temporomandibular joint, as well as contiguous tissue components. It is not known how many people have TMD, but the main symptoms of pain and restricted jaw movement occur in 5-15 percent of afflicted Americans and more frequently affect women. Although some cases can be linked to physical trauma or disease conditions, in most cases the cause is unknown.

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The most frequent presenting symptom associated with TMD is pain, usually localized to the muscles of mastication, the preauricular area, and/or the TMJ. This pain may be related to trauma, (such as a blow to the face), inflammatory or degenerative arthritis, or may be due to the mandible being pushed back towards the ears whenever the individual chews or swallows. Sometimes, muscles around the TMJ used for chewing can go into spasm, causing head and neck pain and difficulty opening the mouth normally. Other common complaints reported by individuals include earache, headache, and facial pain. Individuals may also have limited or asymmetric jaw movement and joint sounds that are usually described as clicking, popping, grating, or crepitus in the TMJ.

Conservative therapy is the mainstay in treating TMD. This therapy may include behavioral change, oral medications for pain, anti-inflammatory injections, and [orthotic devices reversible, removable, intraoral dental splints \(also called occlusal orthotics or occlusal splints\)](#). Surgical treatments, often irreversible, may be recommended for difficult or unresponsive cases. According to the National Institute of Dental and Craniofacial Research (NIDCR), there are no standards to identify people who would most likely benefit from surgery (NIDCR, 2010). A review of available published evidence regarding the safety and efficacy of various medical and surgical treatment modalities for TMJ revealed inconsistent methodologies in study design and a significant variation of improved clinical outcomes (Al-Moraissi, 2017; Bouchard, 2017; Fricton, 2010; Kuzmanovic Pfcifer, 2017; List, 2010; [Nandhini, 2018](#); Schiffman, 2007; Tatli, 2017; Truelove, 2006).

In 2014, Schiffman and colleagues found that, although the Research Diagnostic Criteria for Temporomandibular Disorders (RDC/TMD) Axis I diagnostic algorithms have been reliable, they were below the target sensitivity of greater than or equal to 0.70 and specificity of greater than or equal to 0.95. This empirical finding prompted a revision. The newly recommended Diagnostic Criteria for TMD (DC/TMD) Axis I include both a valid screening protocol for detecting any pain-related TMD, as well as valid diagnostic criteria for differentiating the most common pain-related TMD (sensitivity greater than or equal to 0.86, specificity greater than or equal to 0.98). The authors stated:

TMD is the second most common musculoskeletal condition (after chronic low back pain) resulting in pain and disability... Taken together, a new dual-axis Diagnostic Criteria for TMD (DC/TMD) will provide evidence-based criteria for the clinician to use when assessing patients, and will facilitate communication regarding consultations, referrals, and prognosis.

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In 2017, the American Academy of Oral and Maxillofacial Surgeons (AAOMS) issued Parameters of Care (6<sup>th</sup> edition) which provided the following:

Temporomandibular joint (TMJ) surgery is indicated for the treatment of a wide range of pathologic conditions, including developmental and acquired deformities, internal derangements, arthritis, functional abnormalities, ankylosis, and infection...Surgical intervention for internal derangement is indicated only when nonsurgical therapy has been ineffective and pain and/or dysfunction are moderate to severe. 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. Pretreatment therapeutic goals are determined individually for each patient.

[The National Institute of Dental and Craniofacial Research states the following on temporomandibular joint and muscle disorders:](#)

[Because more studies are needed on the safety and effectiveness of most treatments for jaw joint and muscle disorders, experts strongly recommend using the most conservative, reversible treatments possible. Conservative treatments do not invade the tissues of the face, jaw, or joint, or involve surgery. Reversible treatments do not cause permanent changes in the structure or position of the jaw or teeth. Even when TMJ disorders have become persistent, most patients still do not need aggressive types of treatment. Because the most common jaw joint and muscle problems are temporary and do not get worse, simple treatment may be all that is necessary to relieve discomfort. Short term use of over-the-counter pain medicines or nonsteroidal anti-inflammatory drugs \(NSAIDs\), such as ibuprofen; the use of a stabilization splint, or bite guard, that fits over upper or lower teeth may provide relief. If a stabilization splint is recommended, it should be used only for a short time and should not cause permanent changes in bite. Studies of their effectiveness in providing pain relief have been inconclusive. Surgical treatments are controversial, often irreversible, and should be avoided where possible. There have been no long-term clinical trials to study the safety and effectiveness of surgical treatments for TMJ disorders. Additionally, surgical replacement of jaw joints with artificial implants may cause severe pain and permanent jaw damage. Some of these devices may fail to function properly or may break apart in the jaw over time \(NIDCR, 2018\).](#)

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Several devices that have obtained pre-market approval/clearance (PMA) from the U.S. Food and Drug Administration (FDA) for the surgical treatment of TMD include, but are not limited to, the TMJ Concepts Patient-Fitted TMJ Reconstruction Prosthesis (TMJ Concepts, Camarillo, CA); the TMJ Partial Temporomandibular Joint Replacement System, TMJ Fossa-Eminence Prosthesis System™ and the TMJ Patient Specific Fossa-Eminence Prosthesis System™ (TMJ Implants, Inc., Golden, CO); and the Total Temporomandibular Joint (TMJ) Replacement System (Biomet Microfixation [formerly Walter Lorenz Surgical, Inc.], Jacksonville, FL). The FDA-approved labeling for each of these devices has similar indications, however, to date, the published evidence to support safety, efficacy, and durability of clinical outcomes has been limited.

## Definitions

**Analgesics:** Medications that provide pain relief.

**Arthroplasty:** Surgery to relieve pain and restore range of motion by realigning or reconstructing a joint.

**Behavioral therapy:** Therapy aimed to help people examine those behaviors and emotions that have a negative impact on their lives and make a conscious effort to bring about positive changes.

**Craniomandibular disorder (CMD):** A dental term used to describe diseases or disorders of the muscles of the head and neck, with special reference to the masticatory (chewing) muscles.

**Disc:** Shortened terminology for an intervertebral disc or a TMJ disc; a disk-shaped piece of specialized tissue that separates the bones and provides a cushion between the bones.

**Mandible:** Bone of the lower jaw.

**Meniscus:** A cartilage pad between the two joint surfaces within the TMJ, acting as a smooth surface for the joint to move on.

**Modified condylotomy:** An extra-articular surgical procedure used to manage TMJ dysfunction. The primary purpose of the procedure is to increase joint space by allowing the mandibular condyle to move inferiorly with respect to both the articular disc and eminence.

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Occlusal orthotic device: A dental term used to describe a reversible, removable intraoral appliance, such as a splint.

Orthodontics: The specialty of dentistry dealing with the prevention and correction of abnormally positioned or aligned teeth.

Physical therapy: A branch of rehabilitative health that uses specially designed exercises and equipment to help individuals regain or improve their physical abilities.

Temporal bone: A large, irregular bone situated at the base and side of the skull; connected with the mandible via the TMJ.

Temporomandibular joint (TMJ): Joint that hinges the mandible to the temporal bone of the skull; one of the most frequently used joints in the entire body, moving whenever a person eats, drinks, or talks.

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# Clinical UM Guideline

## Temporomandibular Disorders

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Total Temporomandibular Joint (TMJ) Replacement System

**The use of specific product names is illustrative only. It is not intended to be a recommendation of one product over another, and is not intended to represent a complete listing of all products available.**

## History

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Status	Date	Action
<a href="#">Revised</a>	<a href="#">03/21/2019</a>	<a href="#">Medical Policy &amp; Technology Assessment Committee (MPTAC) review. Clarified MN and NMN criteria and removed requirement for FDA approval. Description, Discussion/General Information, and References sections updated. Updated Coding section; rRemoved D9940 deleted 12/31/2018; aAdded 97033, D9130, D9920.</a>
	09/20/2018	Updated Coding section with 10/01/2018 ICD-10-CM diagnosis code changes; added M79.10-M79.12 replacing M79.1.
Reviewed	03/22/2018	<del>Medical Policy &amp; Technology Assessment Committee (MPTAC) review.</del> The document header wording updated from “Current Effective Date” to “Publish Date.” Discussion/General Information and References sections updated.
Revised	05/04/2017	MPTAC review. Modified condylotomy was added to the surgical procedures for TMD considered medically necessary when criteria are met. References and Coding sections were updated.
Reviewed	11/03/2016	MPTAC review. Updated the formatting of the Clinical Indications section. The Discussion section and References were updated.
	10/01/2016	Updated coding section with 10/01/2016 ICD-10-CM changes.
Reviewed	11/05/2015	MPTAC review. References were updated. Removed ICD-9 codes from Coding section.
	07/01/2015	Updated Coding section with 07/01/2015 HCPCS changes; removed S8262 deleted 06/30/2015.
Reviewed	11/13/2014	MPTAC review. Discussion and References sections were updated. Updated Coding section with 01/01/2015 CPT changes.
Reviewed	11/14/2013	MPTAC review. Discussion section and References were updated.
Reviewed	11/08/2012	MPTAC review. References were updated.
Reviewed	11/17/2011	MPTAC review. Discussion and References were updated.
Revised	11/18/2010	MPTAC review. Revised Subject of document to: Temporomandibular Disorders. Clarified wording throughout the Clinical Indications, changing ‘temporomandibular dysfunction’ to ‘temporomandibular disorders.’ Revised medically necessary criteria for surgical intervention

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Federal and State law, as well as contract language, and Medical Policy take precedence over Clinical UM Guidelines. We reserve the right to review and update Clinical UM Guidelines periodically. Clinical guidelines approved by the Medical Policy & Technology Assessment Committee are available for general adoption by plans or lines of business for consistent review of the medical necessity of services related to the clinical guideline when the plan performs utilization review for the subject. Due to variances in utilization patterns, each plan may choose whether to implement a particular Clinical UM Guideline. To determine if review is required for this Clinical UM Guideline, please contact the customer service number on the member’s card.

Alternatively, commercial or FEP plans or lines of business which determine there is not a need to adopt the guideline to review services generally across all providers delivering services to Plan’s or line of business’s members may instead use the clinical guideline for provider education and/or to review the medical necessity of services for any provider who has been notified that his/her/its claims will be reviewed for medical necessity due to billing practices or claims that are not consistent with other providers, in terms of frequency or in some other manner.

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specific to the age requirement for documented radiograph proof of completion of skeletal growth as follows: “Completion of skeletal growth for individuals under age 18 with long bone x-ray or serial cephalometrics showing no change in facial bone relationships over the last three to six month period (Note: individuals age 18 and older do not require this documentation).” Alphabetized, formatted and reordered document Clinical Indications without additional revisions to the document criteria. Updated Description, Coding, Discussion, Definitions, and References.

	10/01/2010	Updated Coding section with 10/01/2010 ICD-9 changes.
Reviewed	11/19/2009	MPTAC review. Updated References and Coding.
Reviewed	11/20/2008	MPTAC review. Updated Discussion and References.
Reviewed	11/29/2007	MPTAC review. Updated References and Coding to include 01/01/2008 CPT changes.
Reviewed	12/07/2006	MPTAC review. Updated References.
Revised	12/01/2005	MPTAC review. Revision based on Pre-merger Anthem and Pre-merger WellPoint Harmonization.

<b>Pre-Merger Organizations</b>	<b>Last Review Date</b>	<b>Document Number</b>	<b>Title</b>
Anthem, Inc.	N/A	N/A	N/A
Anthem Northeast (Maine)	None	BD	TMJ (Temporomandibular Joint Syndrome) Benefit Detail
Anthem Midwest	08/06/2004	MA-037	Temporomandibular Joint Dysfunction (TMD), Temporomandibular Joint Syndrome (TMJ, Craniomandibular Disorder (CMD)
WellPoint Health Networks, Inc.	09/23/2004	Clinical Guideline	Temporomandibular Joint Arthroplasty

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