

Clinical Policy: Sacroiliac Joint Fusion

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[Coding Implications](#)

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

Description

Sacroiliac joint fusion or arthrodesis is a surgical technique that fuses the iliac bone to the sacrum for stabilization. This procedure may be performed in a minimally invasive manner or as an open surgical procedure requiring a larger incision and subsequent increased recovery time.

Policy/Criteria

- I. It is the policy of health plans affiliated with Centene Corporation® that sacroiliac joint fusion is **medically necessary** for any of the following indications:
 - A. Stabilization of a traumatic, severe disruption, or fracture of the pelvic ring; or
 - B. As an adjunct to sacrectomy or partial sacrectomy for the treatment of sacral tumors; or
 - C. As an adjunct to the medical treatment of sacroiliac joint infection or sepsis (e.g., osteomyelitis, pyogenic sacroiliitis); or
 - D. During multisegment spinal constructs (e.g., correction of deformity in scoliosis or kyphosis surgery, extending to the ilium).
- II. It is the policy of health plans affiliated with Centene Corporation that sacroiliac joint fusion procedures, either open or minimally invasive (e.g., iFuse), are investigational for treating mechanical low back pain due to sacroiliac joint syndrome, radicular pain syndromes, degenerative sacroiliac joint, sacral insufficiency fractures, and pelvic girdle pain because long-term safety and effectiveness has not been established.

Background

Low back pain may become chronic and disabling for about 5-10% of the adults in the United States. When the sacroiliac joint is the source of this pain, and all appropriate conservative measures fail to relieve symptoms of trauma associated with fracture, infection/sepsis, tumors involving the sacrum, cancer, or spinal instability, options may include fusion of this joint or implantation of devices that stabilize this joint with minimally invasive surgery. To stabilize the sacroiliac joint, the iliac crest bone and the sacrum are held together by plates and/or screws or an interbody fusion cage, until the two bones fuse.

There are a number of FDA-approved implants that have been proposed for sacroiliac joint disorders, but the majority of clinical trials and studies have been done on the iFuse implant system. This was initially called the SI Joint Fusion and received the original 510(k) clearance from the Food and Drug Administration in November 2008, for fracture fixation of long bones, large bone fragments of the pelvis and for conditions including sacroiliac joint disruptions and degenerative sacroiliitis. Additional FDA clearances were given on April 21, 2011 and on April 17, 2015. The iFuse system involves the fluoroscopically guided insertion of titanium implants across the sacroiliac joint. Under general anesthesia, a 2 to 3 centimeter incision is created, and after determining the appropriate size of the implant, a cannulated delivery system is used to

CLINICAL POLICY

Sacroiliac Joint Fusion

insert the implants into the proper position. While the number varies, most patients receive 3 implants to stabilize the joint.^{13 14}

Wang and Polly completed two randomized controlled trials with a 6 month and one year follow up, respectively, on sacroiliac joint fusion using iFuse verses non-surgical management. The iFuse led to better outcomes and similar safety compared with nonsurgical management, and to better operative outcomes and at least comparable efficacy compared with open surgery. However, uncertainty remains due to the lack of longer-term efficacy and safety follow-up with radiologic confirmation, and to the lack of comparisons with other minimally invasive approaches.^{15, 10}

The sacroiliac joint remains a controversial source of primary low back pain, and surgery is rarely performed for sacroiliac joint dysfunction. Although there are ongoing published peer-reviewed studies, there is a paucity of long-term, scientific literature to support sacroiliac joint fusion for low back pain. Additional randomized, controlled trials or comparison studies are needed to compare sacroiliac joint fusion for low back pain to non-surgical treatments to determine the impact on health outcomes and long-term efficacy and safety.¹⁷

American College of Occupational and Environmental Medicine does not recommend sacroiliac joint fusion surgery and other sacroiliac joint surgical procedures.³

State of Colorado, Department of Labor and Employment, Division of Workers' Compensation, recommends: sacroiliac (SI) joint fusion may be indicated for stabilization of a traumatic severe disruption of the pelvic ring. This procedure has limited use in minor trauma and would be considered only on an individual case-by-case basis. In patients with typical, mechanical low back pain, this procedure is considered to be investigational. Until the efficacy of this procedure for mechanical low back pain is determined by an independent, valid, prospective outcome study, this procedure is not recommended for mechanical low back pain.¹²

Agency for Healthcare, Research and Quality (AHRQ), Work Loss Data Institute AHRQ notes that the following interventions/procedures were considered, but are not recommended: Percutaneous sacroiliac joint fusion (except as a last resort for chronic or severe sacroiliac joint pain); and/or open sacroiliac joint fusion.¹

American Association of Neurological Surgeons (AANS)

At the Current Procedural Terminology (CPT[®]) Editorial Panel meeting, the American Association of Neurological Surgeons and Congress of Neurological Surgeons presented the following proposal: for a new Category I CPT code for minimally invasive sacroiliac joint fusion. The new code was approved and went into effect on January 1, 2015, replacing the previous Category III code 0334T. CPT code 27280 was revised to clarify that it is for open procedures only.²

International Society for the Advancement of Spine Surgery (ISASS)

ISASS published a policy statement on minimally invasive sacroiliac joint fusion, with criteria for determining a patient's eligibility regarding minimally invasive SI joint fusion. Several limitations include, but are not limited to: the literature review method, lack of formal

CLINICAL POLICY
Sacroiliac Joint Fusion

assessment of the quality of the evidence, and no clear link between the recommendations for fusion with supporting evidence.⁸

North American Spine Society (NASS)

NASS recommends percutaneous sacroiliac joint (SIJ) fusion for the treatment of sacroiliac joint pain for patients with low back / buttock pain who meet specific criteria.⁹

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 2015, 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	Description
27279	Arthrodesis, sacroiliac joint, percutaneous or minimally invasive (indirect visualization), with image guidance, includes obtaining bone graft when performed, and placement of transfixing device
27280	Arthrodesis, open, sacroiliac joint, including obtaining bone graft, including instrumentation, when performed

HCPCS Codes	Description
N/A	

ICD-10-CM Diagnosis Codes that Support Coverage Criteria

ICD-10-CM Code	Description
M43.27- M43.28	Fusion of spine, lumbosacral to sacral and sacrococcygeal region
M53.2X7- M53.2X8	Spinal instabilities, lumbar – sacral and sacrococcygeal region
M53.3	Sacrococcygeal disorders, not elsewhere classified

Reviews, Revisions, and Approvals	Date	Approval Date
New policy developed based off of Health Net policy NMP536 Sacroiliac Joint Fusion.	09/16	09/16

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CLINICAL POLICY

Sacroiliac Joint Fusion

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13. U.S. Food and Drug Administration (FDA) 510(k) Premarket Notification Database. iFuse SI Fusion System. No. K110838. April 21, 2011.
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Important Reminder

CLINICAL POLICY

Sacroiliac Joint Fusion

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

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CLINICAL POLICY

Sacroiliac Joint Fusion

Note: For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

Note: For Medicare members, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs, LCDs, and Medicare Coverage Articles should be reviewed prior to applying the criteria set forth in this clinical policy. Refer to the CMS website at <http://www.cms.gov> for additional information.

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