Introduction

The sacroiliac (SI) joints are between the lower spine and the pelvic bones. There is one on each side of the body. These joints transfer weight and the forces of the upper body to the hips and legs. Pain can develop in one or both of these joints and may be felt in the lower back, buttocks, or legs. One way to test if pain is coming from an SI joint is to inject a numbing solution. Imaging is used to guide and position the needle for the injection. If the numbing agent reduces pain, it is an indication that an SI joint is the cause. To relieve pain, steroids can be injected into the joint using the same type of imaging guidance. Another option for pain relief is minimally invasive fixation/fusion of the sacroiliac joint using a titanium triangular implant. This policy describes when injections, minimally invasive fixation/fusion of the SI joint, and other certain treatments may be considered medically necessary to diagnose and treat SI joint pain. This policy also discusses investigational (unproven) techniques for diagnosing or treating SI pain.

Note: The Introduction section is for your general knowledge and is not to be taken as policy coverage criteria. The rest of the policy uses specific words and concepts familiar to medical professionals. It is intended for providers. A provider can be a person, such as a doctor, nurse, psychologist, or dentist. A provider also can be a place where medical care is given, like a hospital, clinic, or lab. This policy informs them about when a service may be covered.
### Policy Coverage Criteria

<table>
<thead>
<tr>
<th>Service</th>
<th>Medical Necessity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anesthetic injection for diagnosing sacroiliac joint pain</strong></td>
<td><strong>Injection of anesthetic for the purpose of diagnosing sacroiliac joint pain may be considered medically necessary when the following criteria have been met:</strong>&lt;br&gt;&lt;ul&gt;&lt;li&gt;Pain has failed to respond to 3 months of conservative management, which may consist of therapies such as nonsteroidal anti-inflammatory medications, acetaminophen, manipulation, physical therapy, and a home exercise program&lt;/li&gt;&lt;li&gt;AND&lt;/li&gt;&lt;li&gt;Dual (controlled) diagnostic blocks with 2 anesthetic agents with differing duration of action are used&lt;/li&gt;&lt;li&gt;AND&lt;/li&gt;&lt;li&gt;The injections are performed under imaging guidance&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td><strong>Corticosteroid injection for treatment of sacroiliac joint pain</strong></td>
<td><strong>Injection of corticosteroid may be considered medically necessary for the treatment of sacroiliac joint pain when the following criteria have been met:</strong>&lt;br&gt;&lt;ul&gt;&lt;li&gt;Pain has failed to respond to 3 months of conservative management, which may consist of therapies such as nonsteroidal anti-inflammatory medications, acetaminophen, manipulation, physical therapy, and a home exercise program&lt;/li&gt;&lt;li&gt;AND&lt;/li&gt;&lt;li&gt;The injection is performed under imaging guidance&lt;/li&gt;&lt;li&gt;AND&lt;/li&gt;&lt;li&gt;No more than 3 injections are given in one year&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td><strong>Minimally invasive fixation/fusion of the SIJ</strong></td>
<td><strong>Minimally invasive fixation/fusion of the sacroiliac joint using a titanium triangular implant (eg, iFuse®) may be considered medically necessary when ALL of the following criteria have been met:</strong>&lt;br&gt;&lt;ul&gt;&lt;li&gt;Documentation of persistent pain of 6 months duration that interferes with activities of daily living with a visual analog score (VAS) of 5 or greater;&lt;/li&gt;&lt;li&gt;AND&lt;/li&gt;&lt;li&gt;Documentation of failure of at least 6 months of nonoperative treatment that includes:&lt;/li&gt;&lt;/ul&gt;</td>
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<tr>
<td>Service</td>
<td>Medical Necessity</td>
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<td>---------------------------------------------</td>
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<tr>
<td>– Medication optimization</td>
<td>o Medication optimization</td>
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<tr>
<td>– Activity modification</td>
<td>o Activity modification</td>
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<tr>
<td>– Bracing</td>
<td>o Bracing</td>
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<tr>
<td>– Active therapeutic exercise targeted at the lumbar spine, pelvis, sacroiliac joint, and hip, which may include a home exercise program</td>
<td>o Active therapeutic exercise targeted at the lumbar spine, pelvis, sacroiliac joint, and hip, which may include a home exercise program</td>
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<tr>
<td>– Intra-articular SI joint corticosteroid therapeutic injection;</td>
<td>o Intra-articular SI joint corticosteroid therapeutic injection;</td>
</tr>
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</table>

**AND**

- Confirmation of the SI joint as the pain generator as demonstrated by all of the following:
  - Pain pattern consistent with SI joint pain (typically unilateral pain caudal [directed toward the tail] to the lumbar spine [L5 vertebrae] localized over the posterior SI joint)
  - Positive finger Fortin test (localized tenderness with palpation over the sacral sulcus)
  - No tenderness of similar severity elsewhere in the pelvic region (eg, greater trochanter, lumbar spine, coccyx); other obvious sources of pain do not exist or have been excluded
  - Positive response to at least 3 of the following provocative tests (see Appendix):
    - Thigh thrust test*
    - Compression test
    - Gaenslen’s test
    - Distraction test
    - FABER’s test/Patrick’s sign

*Note: The Thrust test is not recommended in pregnant patients or those with connective tissue disorders

**AND**

- Diagnostic imaging studies include ALL of the following:
  - Imaging (plain radiographs and a CT or MRI) of the sacroiliac joint excludes the presence of destructive lesions (eg, tumor, infection) or inflammatory arthropathy of the sacroiliac joint that would not be properly addressed by percutaneous SI joint fusion; **and**
  - Imaging of the pelvis (anteroposterior [AP] plain
<table>
<thead>
<tr>
<th>Service</th>
<th>Medical Necessity</th>
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<tr>
<td></td>
<td>radiograph) rules out concomitant hip pathology; <strong>and</strong></td>
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<td></td>
<td>o Imaging of the lumbar spine (CT or MRI) to rule out neural</td>
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<td>compression or other degenerative condition that can be</td>
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<td></td>
<td>causing low back or buttock pain; <strong>and</strong></td>
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<td></td>
<td>o Imaging of the SI joint that indicates evidence of injury</td>
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<td></td>
<td>and/or degeneration</td>
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<td></td>
<td><strong>AND</strong></td>
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<tr>
<td></td>
<td>• Diagnostic confirmation of the SI joint as the pain generator</td>
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<td>demonstrated by at least 75% reduction of pain for the</td>
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<td>expected duration of the anesthetic used following an image-</td>
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<td></td>
<td>guided, contrast-enhanced intra-articular sacroiliac joint</td>
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<tr>
<td></td>
<td>injection on 2 separate occasions (see <strong>Related Information</strong>).</td>
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</table>

**Minimally invasive fixation/fusion of the sacroiliac joint using a titanium triangular implant (eg, iFuse®) may be considered not medically necessary when any of the following conditions are met:**

- Any case that does not fulfill ALL of the above criteria
- Presence of generalized pain behavior (eg, somatoform disorder) or generalized pain disorders (eg, fibromyalgia)
- Presence of neural compression as seen on imaging (lumbar CT or MRI) that correlates with symptoms or other more likely source of pain
- Presence of systemic arthropathy such as ankylosing spondylitis or rheumatoid arthritis
- Presence of infection, tumor, or fracture
- Presence of acute, traumatic instability of the SI joint

**Open sacroiliac joint fusion procedures may be considered medically necessary for any of the following indications:**

- As an adjunct to sacrectomy or partial sacrectomy related to tumors involving the sacrum
  
  **OR**

- As an adjunct to the medical treatment of sacroiliac joint infection/sepsis
  
  **OR**

- As a treatment for severe traumatic injuries associated with pelvic ring fracture
### Service | Medical Necessity
--- | ---
| Sacroiliac joint fusion performed by an open procedure for any other indication is considered not medically necessary.

### Service | Investigational
--- | ---
| All other conditions and other devices | Fixation/fusion of the sacroiliac joint for the treatment of back pain presumed to originate from the SIJ is considered investigational under all other conditions and with any other devices not listed above, including, but not limited to:
  * Rialto™ SI Joint Fusion System (Medtronic)-cylindrical threaded implant
  * Simmetry® Sacroiliac Joint Fusion System (Zyga Technologies)-cylindrical threaded implant
  * Silex™ Sacroiliac Joint Fusion System (XTANT Medical)-cylindrical threaded implant
  * SambaScrew® (Orthofix)-cylindrical threaded implant
  * SI-LOK® Sacroiliac Joint Fixation System (Globus Medical)-cylindrical threaded implant
| Arthrography | Arthrography of the sacroiliac joint is considered investigational.
| Radiofrequency denervation | Radiofrequency denervation of the sacroiliac joint is considered investigational.

### Documentation Requirements
The patient’s medical records submitted for review for all conditions should document that medical necessity criteria are met. The record should include the following:

**Office visit notes that contain the relevant history and physical.**

- For diagnosing sacroiliac joint pain, provide documentation of the following:
  - Three months of conservative management
  - The use of imaging to guide placement of the injection
  - The use of two different (controlled) diagnostic blocks with 2 anesthetic agents with differing duration of action
- For corticosteroid injections provide documentation of the following:
  - Three months of conservative management
  - The use of imaging to guide the location of the injection
Documentation Requirements

- No more than 3 injections are given in one year

- For minimally invasive fixation/fusion of the sacroiliac joint, provide documentation that ALL of the criteria above have been met plus copies of these diagnostic imaging studies:
  - Imaging (plain radiographs and computed tomography or magnetic resonance imaging) of the sacroiliac joint to exclude the presence of destructive lesions (eg, tumor, infection) or inflammatory arthropathy of the sacroiliac joint; and
  - Imaging of the pelvis (anteroposterior plain radiograph) to rule out concomitant hip pathology; and
  - Imaging of the lumbar spine (computed tomography or magnetic resonance imaging) is performed to rule out neural compression or other degenerative condition that can be causing low back or buttock pain; and
  - Imaging of the sacroiliac joint indicates evidence of injury and/or degeneration

- For open sacroiliac joint fusion, documentation of ANY of these indications:
  - As an addition to sacrectomy or partial sacrectomy related to tumors involving the sacrum
    OR
  - As an addition to the medical treatment of sacroiliac joint infection/sepsis
    OR
  - As a treatment for severe traumatic injuries associated with pelvic ring fracture

Coding

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>CPT</td>
<td></td>
</tr>
<tr>
<td>27279</td>
<td>Arthrodesis, sacroiliac joint, percutaneous or minimally invasive (indirect visualization), with image guidance, includes obtaining bone graft when performed, and placement of transfixing device</td>
</tr>
<tr>
<td>27280</td>
<td>Arthrodesis, open, sacroiliac joint, including obtaining bone graft, including instrumentation, when performed</td>
</tr>
<tr>
<td>64625</td>
<td>Radiofrequency ablation, nerves innervating the sacroiliac joint, with image guidance (ie, fluoroscopy or computed tomography) (new code effective 1/1/20)</td>
</tr>
<tr>
<td>64635</td>
<td>Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); lumbar or sacral, single facet joint</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>64636</td>
<td>Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); lumbar or sacral, each additional facet joint</td>
</tr>
<tr>
<td>64640</td>
<td>Destruction by neurolytic agent; other peripheral nerve or branch</td>
</tr>
</tbody>
</table>

**Note:** CPT codes, descriptions and materials are copyrighted by the American Medical Association (AMA). HCPCS codes, descriptions and materials are copyrighted by Centers for Medicare Services (CMS).

**Related Information**

This technically demanding procedure should only be done by surgeons who have specific training and expertise in minimally invasive sacroiliac joint fusion surgery for chronic sacroiliac joint pain and who regularly use image-guidance for implant placement.

Conservative nonsurgical therapy for the duration specified should include the following:

- Use of prescription strength analgesics for several weeks at a dose sufficient to induce a therapeutic response
  - Analgesics should include anti-inflammatory medications with or without adjunctive medications such as nerve membrane stabilizers or muscle relaxants, and
- Participation in at least 6 weeks of physical therapy (including active exercise) or documentation of why the patient could not tolerate physical therapy, and
- Evaluation and appropriate management of associated cognitive, behavioral, or addiction issues, and
- Documentation of patient compliance with the preceding criteria.

A successful trial of controlled diagnostic lateral branch blocks consists of 2 separate positive blocks on different days with local anesthetic only (no steroids or other drugs), or a placebo-controlled series of blocks, under fluoroscopic guidance, that has resulted in a reduction in pain for the duration of the local anesthetic used (eg, 3 hours longer with bupivacaine than lidocaine). There is no consensus on whether a minimum of 50% or 75% reduction in pain would be required to be considered a successful diagnostic block, although evidence that supported a criterion standard of 75% to 100% reduction in pain with dual blocks. No therapeutic intra-articular injections (ie, steroids, saline, other substances) should be administered for a period of at least 4 weeks before the diagnostic block. The diagnostic blocks should not be conducted...
under intravenous sedation unless specifically indicated (eg, the patient is unable to cooperate with the procedure).

Evidence Review

Description

Sacroiliac joint (SIJ) arthrography using fluoroscopic guidance with an injection of an anesthetic has been explored as a diagnostic test for SIJ pain. Duplication of the patient’s pain pattern with the injection of contrast medium suggests a sacroiliac etiology, as does relief of chronic back pain with injection of local anesthetic. Treatment of SIJ pain with corticosteroids, radiofrequency ablation (RFA), stabilization, or minimally invasive SIJ fusion has also been explored.

Background

Sacroiliac Joint Pain

Similar to other structures in the spine, it is assumed that the sacroiliac joint (SIJ) may be a source of low back pain. In fact, before 1928, the sacroiliac joint was thought to be the most common cause of sciatica. In 1928, the role of the intervertebral disc was elucidated, and from that point forward, the sacroiliac joint received less research attention.

Diagnosis

Research into SIJ pain has been plagued by a lack of a criterion standard to measure its prevalence and against which various clinical examinations can be validated. For example, SIJ pain is typically without any consistent, demonstrable radiographic or laboratory features and most commonly exists in the setting of morphologically normal joints. Clinical tests for SIJ pain may include various movement tests, palpation to detect tenderness, and pain descriptions by the patient. Further confounding study of the SIJ is that multiple structures, (eg, posterior facet joints, lumbar discs) may refer pain to the area surrounding the SIJ.

Because of inconsistent information obtained from history and physical examination, some have proposed the use of image-guided anesthetic injection into the SIJ for the diagnosis of SIJ pain.
Treatments being investigated for SIJ pain include prolotherapy (see Related Policies), corticosteroid injection, radiofrequency ablation, stabilization, and arthrodesis. Some procedures have been referred to as SIJ fusion but may be more appropriately called fixation due to little to no bridging bone on radiographs. Devices for SIJ fixation/fusion that promote bone ingrowth to fixate the implants include a triangular implant (iFuse Implant System) and cylindrical threaded devices (Rialto, Slmmetry, Silex, SambaScrew, SI-LOK). Some devices also have a slot in the middle where autologous or allogeneic bone can be inserted. This added bone is intended to promote fusion of the SIJ.

Summary of Evidence

Diagnostic

For individuals who have suspected SIJ pain who receive a diagnostic sacroiliac block, the evidence includes systematic reviews. Relevant outcomes are test validity, symptoms, functional outcomes, quality of life, medication use, and treatment-related morbidity. Current evidence is conflicting on the diagnostic utility of SIJ blocks. The evidence is insufficient to determine the effects of the technology on health outcomes.

Therapeutic

For individuals who have SIJ pain who receive therapeutic corticosteroid injections, the evidence includes small RCTs and case series. Relevant outcomes are symptoms, functional outcomes, quality of life, medication use, and treatment-related morbidity. In general, the literature on injection therapy of joints in the back is of poor quality. Results from two small RCTs showed that therapeutic SIJ steroid injections were not as effective as other active treatments. Larger trials, preferably using sham injections, are needed to determine the degree of benefit of corticosteroid injections over placebo. The evidence is insufficient to determine the effects of the technology on health outcomes.

For individuals who have SIJ pain who receive RFA, the evidence includes four small RCTs using different radiofrequency applications and case series. Relevant outcomes are symptoms, functional outcomes, quality of life, medication use, and treatment-related morbidity. For RFA with a cooled probe, the two small RCTs reported short-term benefits, but these are insufficient to determine the overall effect on health outcomes. The RCT on palisade RFA of the SIJ did not include a sham control. Another sham-controlled randomized trial showed no benefit from RFA.
Further high-quality controlled trials are needed to compare this procedure in defined populations with sham control and with alternative treatments. The evidence is insufficient to determine the effects of the technology on health outcomes.

For individuals who have SIJ pain who receive SIJ fusion/fixation with a triangular implant, the evidence includes two nonblinded RCTs of minimally invasive fusion and two case series with more than 85% follow-up at 2 to 3 years. Relevant outcomes are symptoms, functional outcomes, quality of life, medication use, and treatment-related morbidity. Both RCTs reported superior short-term results for fusion, however, a preferable design for assessing pain outcomes would be independent, blinded assessment of outcomes or, when feasible, a sham-controlled trial. Longer term follow-up from these RCTs has indicated that the results obtained at six months persist to two years. An additional cohort study and case series, with sample sizes ranging from 45 to 149 patients and low dropout rates (<15%), have also shown reductions in pain and disability at 2 years. One small case series showed outcomes that persisted to five years. The cohort studies and case series are consistent with the durability of treatment benefit. Analysis of an insurance database reported an overall incidence of complications to be 16.4% at 6 months and the cumulative revision rate at 4 years of 3.54%. The evidence is sufficient to determine that the technology results in a meaningful improvement in the net health outcome.

For individuals who have SIJ pain who receive SIJ fusion/fixation with a cylindrical threaded implant, the evidence includes a prospective cohort. Relevant outcomes are symptoms, functional outcomes, quality of life, medication use, and treatment-related morbidity. The prospective cohort study will follow patients for two years following implantation of slotted screws filled with autologous bone. Results at one year are consistent with findings from the studies using a triangular implant. However, longer follow-up and controlled trials are needed to evaluate this type of implant. The evidence is insufficient to determine the effects of the technology on health outcomes.

Ongoing and Unpublished Clinical Trials

Some currently ongoing and unpublished trials that might influence this policy are listed in Table 1.
Table 1. Summary of Key Trials

<table>
<thead>
<tr>
<th>NCT No.</th>
<th>Trial Name</th>
<th>Planned Enrollment</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ongoing</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NCT02074761a</td>
<td>Evolusion Study Using the Zyga Symmetry Sacroiliac Joint Fusion System</td>
<td>250</td>
<td>Aug 2020</td>
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<tr>
<td>NCT03601949a</td>
<td>Lateral Branch Cooled Radiofrequency Denervation vs Conservative Therapy for Sacroiliac Joint Pain</td>
<td>208</td>
<td>Nov 2021 (recruiting)</td>
</tr>
<tr>
<td>NCT03507049</td>
<td>Sacroiliac Joint Fusion Versus Sham Operation for Treatment of Sacroiliac Joint Pain (SIFSO)</td>
<td>60</td>
<td>Apr 2023 (recruiting)</td>
</tr>
<tr>
<td><strong>Unpublished</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NCT01861899a</td>
<td>Treatment of Sacroiliac Dysfunction With SI-LOK® Sacroiliac Joint Fixation System</td>
<td>55</td>
<td>Nov 2018 (unknown)</td>
</tr>
<tr>
<td>NCT02270203a</td>
<td>LOIS: Long-Term Follow-Up in INSITE/SIFI</td>
<td>103</td>
<td>Dec 2019 (completed)</td>
</tr>
</tbody>
</table>

NCT: national clinical trial
a Denotes industry-sponsored or cosponsored trial

Clinical Input Received from Physician Specialty Societies and Academic Medical Centers

While the various physician specialty societies and academic medical centers may collaborate with and make recommendations during this process, through the provision of appropriate reviewers, input received does not represent an endorsement or position statement by the physician specialty societies or academic medical centers, unless otherwise noted.

2017 Input

In response to requests, clinical input focused on sacroiliac joint (SIJ) fusion was received from 10 respondents, including 5 specialty society-level responses from 7 specialty societies (2 were joint society responses) and 5 physician-level responses from 4 academic centers while this policy was under review in 2017. Based on the evidence and independent clinical input, the clinical input supports that the following indication provides a clinically meaningful
improvement in the net health outcome and is consistent with generally accepted medical practice:

- Use of fusion/stabilization of the SIJ using percutaneous and minimally invasive techniques for carefully selected patients as outlined in statements from the North American Spine Society.

### 2015 Input

In response to requests, focused input on SIJ fusion was received from 5 physician specialty societies and 3 academic medical centers while this policy was under review in 2015. Most reviewers considered SIJ fusion to be investigational.

### 2014 Input

In response to requests, input was received from 4 physician specialty societies and 4 academic medical centers (5 responses) while this policy was under review in 2014. Input was mixed concerning the use of arthrography, radiofrequency ablation, and fusion of the SIJ. Most reviewers considered injection for diagnostic purposes to be medically necessary when using controlled blocks with at least 75% pain relief, and for injection of corticosteroids for treatment purposes. Treatment with prolotherapy, periarticular corticosteroid, and periarticular botulinum toxin were considered investigational by most reviewers.

### Practice Guidelines and Position Statements

#### North American Spine Society

The North American Spine Society (NASS, 2015) published coverage recommendations for percutaneous sacroiliac joint (SIJ) fusion. The NASS indicated that there was relatively moderate evidence. In the absence of high-level data, NASS policies reflect the multidisciplinary experience and expertise of the committee members in order to present reasonable standard practice indications in the United States. The NASS recommended coverage when ALL of the following criteria are met:

1. “[Patients] have undergone and failed a minimum 6 months of intensive nonoperative treatment that must include medication optimization, activity modification, bracing and
active therapeutic exercise targeted at the lumbar spine, pelvis, SIJ and hip including a home exercise program.

2. Patient’s report of typically unilateral pain that is caudal to the lumbar spine (L5 vertebra), localized over the posterior SIJ, and consistent with SIJ pain.

3. A thorough physical examination demonstrating localized tenderness with palpation over the sacral sulcus (Fortin’s point, ie, at the insertion of the long dorsal ligament inferior to the posterior superior iliac spine or PSIS) in the absence of tenderness of similar severity elsewhere (eg, greater trochanter, lumbar spine, coccyx) and that other obvious sources for their pain do not exist.

4. Positive response to a cluster of 3 provocative tests (eg, thigh thrust test, compression test, Gaenslen’s test, distraction test, Patrick’s sign, posterior provocation test). Note that the thrust test is not recommended in pregnant patients or those with connective tissue disorders.

5. Absence of generalized pain behavior (eg, somatoform disorder) or generalized pain disorders (eg, fibromyalgia).

6. Diagnostic imaging studies that include ALL of the following:

   a. Imaging (plain radiographs and a CT [computed tomography] or MRI [magnetic resonance imaging]) of the SI joint that excludes the presence of destructive lesions (eg, tumor, infection) or inflammatory arthropathy that would not be properly addressed by percutaneous SIJ fusion.

   b. Imaging of the pelvis (AP [anteroposterior] plain radiograph) to rule out concomitant hip pathology.

   c. Imaging of the lumbar spine (CT or MRI) to rule out neural compression or other degenerative condition that can be causing low back or buttock pain.

   d. Imaging of the SI joint that indicates evidence of injury and/or degeneration.

7. At least 75% reduction of pain for the expected duration of the anesthetic used following an image-guided, contrast-enhanced intra-articular SIJ injection on 2 separate occasions.

8. A trial of at least one therapeutic intra-articular SIJ injection (ie, corticosteroid injection).“
American Society of Interventional Pain Physicians

The American Society of Interventional Pain Physicians (2013) guidelines have been updated.\textsuperscript{3} The updated guidelines recommend the use of controlled SIJ blocks with placebo or controlled comparative local anesthetic block when indications are satisfied with suspicion of SIJ pain. A positive response to a joint block is considered to be at least a 75% improvement in pain or in the ability to perform previously painful movements. For therapeutic interventions, the only effective modality with fair evidence was cooled radiofrequency neurotomy, when used after the appropriate diagnosis was confirmed by diagnostic SIJ injections.

American Society of Anesthesiologists et al

The American Society of Anesthesiologists and the American Society of Regional Anesthesia and Pain Medicine (2010) updated their joint guidelines for chronic pain management.\textsuperscript{40} The guidelines recommended that “Diagnostic sacroiliac joint injections or lateral branch blocks may be considered for the evaluation of patients with suspected sacroiliac joint pain.” Based on the opinions of consultants and society members, the guidelines recommend that “Water-cooled RFA may be used for chronic sacroiliac joint pain.”

American Pain Society

The practice guidelines from the American Pain Society (2009) were based on a systematic review commissioned by the Society.\textsuperscript{7,8} The guidelines stated that there is insufficient evidence to evaluate the validity or utility of diagnostic SIJ block as a diagnostic procedure for low back pain with or without radiculopathy; the guidelines further stated that there was insufficient evidence to adequately evaluate benefits of SIJ steroid injection for nonradicular low back pain.

International Society for the Advancement of Spine Surgery

The International Society for the Advancement of Spine Surgery (2014) updated its policy statement on minimally invasive SIJ fusion in 2016.\textsuperscript{41,42} Society recommendations indicated that patients who met all of the following criteria may be eligible for minimally invasive SIJ fusion:

- “Significant SI [sacroiliac] joint pain ... or significant limitations in activities of daily living because of pain from the SI joint(s).
“SI joint pain confirmed with ... at least 3 positive physical provocation examination maneuvers that stress the SI joint.

“Confirmation of the SI joint as a pain generator with ≥ 75% acute decrease in pain immediately following fluoroscopically guided diagnostic intra-articular SI joint block using local anesthetic.

“Failure to respond to at least 6 months of non-surgical treatment consisting of non-steroidal anti-inflammatory drugs and/or ... one or more of the following: ... physical therapy ... Failure to respond means continued pain that interferes with activities of daily living and/or results in functional disability;

“Additional or alternative diagnoses that could be responsible for the patient’s ongoing pain or disability have been considered, investigated and ruled out.”

National Institute for Health and Care Excellence

The National Institute for Health and Care Excellence (NICE) (2017) guidance on minimally invasive SIJ fusion surgery for chronic sacroiliac pain included the following recommendations:

1.1 “Current evidence on the safety and efficacy of minimally invasive sacroiliac (SI) joint fusion surgery for chronic SI pain is adequate to support the use of this procedure...

1.2 Patients having this procedure should have a confirmed diagnosis of unilateral or bilateral SI joint dysfunction due to degenerative sacroiliitis or SI joint disruption.

1.3 This technically challenging procedure should only be done by surgeons who regularly use image-guided surgery for implant placement. The surgeons should also have had specific training and expertise in minimally invasive SI joint fusion surgery for chronic SI pain.”

Medicare National Coverage

There is no national coverage determination.
Regulatory Status

A number of radiofrequency generators and probes have been cleared for marketing by the U.S. Food and Drug Administration (FDA) through the 510(k) process. In 2005, the Sinergy® (Halyard; formerly Kimberly-Clark), a water-cooled single-use probe, was cleared by the FDA, listing the Baylis Pain Management Probe as a predicate device. The intended use is in conjunction with a radiofrequency generator to create radiofrequency lesions in nervous tissue. FDA product code: GXD, GXI.

A number of percutaneous or minimally invasive fixation/fusion devices have been cleared for marketing by the FDA through the 510 (k) process. They include the the iFuse® Implant System (SI Bone), the Rialto™ SI Joint Fusion System (Medtronic), SIJ-Fuse (Spine Frontier), the Simmetry® Sacroiliac Joint Fusion System (Zyga Technologies), Silex™ Sacroiliac Joint Fusion System (XTANT Medical), SambaScrew® (Orthofix) and the SI-LOK® Sacroiliac Joint Fixation System (Globus Medical). FDA product code: OUR.

References


Appendix

“Tests that stress the SIJ in order to provoke familiar pain have acceptable inter-examiner reliability and have clinically useful validity against an acceptable reference standard. Three or
more positive pain provocation SIJ tests have sensitivity and specificity of 91% and 78% respectively.”

**Figure 1 – The Distraction Test**

![The distraction test](image)

The **distraction test** (testing right and left SIJ simultaneously).

**Note:** Vertically oriented pressure is applied to the anterior superior iliac spinous processes directed posteriorly, distracting the sacroiliac joint.
The thigh thrust test (aka posterior provocation test) (testing the right SIJ).

**Note:** The sacrum is fixated against the table with the left hand, and a vertically oriented force is applied through the line of the femur directed posteriorly, producing a posterior shearing force at the SIJ.
Gaenslen’s test (testing the right SIJ in posterior rotation and the left SIJ in anterior rotation).

**Note:** The pelvis is stressed with a torsion force by a superior/posterior force applied to the right knee and a posteriorly directed force applied to the left knee.
Figure 4 – Compression test

The **compression test** (testing right and left SIJ).

**Note:** A vertically directed force is applied to the iliac crest directed towards the floor, i.e., transversely across the pelvis, compressing the SIJs.
The **sacral thrust** test (testing right and left SIJ simultaneously).

**Note:** A vertically directed force is applied to the midline of the sacrum at the apex of the curve of the sacrum, directed anteriorly, producing a posterior shearing force at the SIJs with the sacrum nutated.

**Source:** [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2582421/](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2582421/)  Accessed January 2020

FABER (Patrick’s sign) Test stands for: Flexion, Abduction and External Rotation. These three movements combined result in a clinical pain provocation test to assist in diagnosis of pathologies at the SI region.

### History

<table>
<thead>
<tr>
<th>Date</th>
<th>Comments</th>
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<tr>
<td>03/01/18</td>
<td>New policy, approved February 13, 2018. This policy replaces the previous policy 6.01.23. Diagnosis and treatment of sacroiliac joint pain are considered medically necessary when criteria are met. Arthrography and radiofrequency denervation of the</td>
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Sacroiliac joint are considered investigational. Open SIJ Fusion is medically necessary when criteria are met. Percutaneous and minimally invasive SIJ fusion/stabilization procedures are considered investigational.

02/01/19
Annual Review, approved January 8, 2019, Policy updated with literature review through September 2018; references 12, 23, and 37-38 added. Policy statement added to indicate minimally invasive fixation/fusion of the SIJ using a titanium triangular implant is medically necessary when criteria are met.

12/01/19
Interim Review, approved November 6, 2019. Medical necessity statements for minimally fixation/fusion of the SIJ reformatted with minor edits for greater clarity. Intent of the policy statements unchanged.

01/01/20
Coding update, added CPT code 64625 (new code effective 1/1/20).

02/01/20

**Disclaimer:** This medical policy is a guide in evaluating the medical necessity of a particular service or treatment. The Company adopts policies after careful review of published peer-reviewed scientific literature, national guidelines and local standards of practice. Since medical technology is constantly changing, the Company reserves the right to review and update policies as appropriate. Member contracts differ in their benefits. Always consult the member benefit booklet or contact a customer service representative to determine coverage for a specific medical service or supply. CPT codes, descriptions and materials are copyrighted by the American Medical Association (AMA). ©2020 Premera All Rights Reserved.

**Scope:** Medical policies are systematically developed guidelines that serve as a resource for Company staff when determining coverage for specific medical procedures, drugs or devices. Coverage for medical services is subject to the limits and conditions of the member benefit plan. Members and their providers should consult the member benefit booklet or contact a customer service representative to determine whether there are any benefit limitations applicable to this service or supply. This medical policy does not apply to Medicare Advantage.
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Premera:
• Provides free aids and services to people with disabilities to communicate effectively with us, such as:
  • Qualified sign language interpreters
  • Written information in other formats (large print, audio, accessible electronic formats, other formats)
• Provides free language services to people whose primary language is not English, such as:
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  • Information written in other languages

If you need these services, contact the Civil Rights Coordinator.

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Civil Rights Coordinator - Complaints and Appeals
PO Box 91102, Seattle, WA 98111
Toll free 855-332-4535, Fax 425-918-5592. TTY 800-842-5357
Email AppealsDepartmentInquiries@Premera.com

You can file a grievance in person or by mail, fax, or email. If you need help filing a grievance, the Civil Rights Coordinator is available to help you.

You can also file a civil rights complaint with the U.S. Department of Health and Human Services, Office for Civil Rights, electronically through the Office for Civil Rights Complaint Portal, available at https://ocrportal.hhs.gov/ocr/portal/lobby.jsf, or by mail or phone at:
U.S. Department of Health and Human Services
200 Independence Avenue SW, Room 509F, HHH Building
Washington, D.C. 20201, 1-800-368-1019, 800-537-7697 (TDD)

Getting Help in Other Languages

This Notice has Important Information. If you believe that Premera has failed to provide these services or discriminated in another way on the basis of race, color, national origin, age, disability, or sex, you can file a grievance with:
Civil Rights Coordinator - Complaints and Appeals
PO Box 91102, Seattle, WA 98111
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You can also file a civil rights complaint with the U.S. Department of Health and Human Services, Office for Civil Rights, electronically through the Office for Civil Rights Complaint Portal, available at https://ocrportal.hhs.gov/ocr/portal/lobby.jsf, or by mail or phone at:
U.S. Department of Health and Human Services
200 Independence Avenue SW, Room 509F, HHH Building
Washington, D.C. 20201, 1-800-368-1019, 800-537-7697 (TDD)

Deutsche (German):

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ประกาศนี้มีข้อมูลสำคัญ เพื่อให้คุณได้รับข้อมูลเกี่ยวกับการสมัครสมาชิกผลประโยชน์สุขภาพของคุณผ่าน Premera Blue Cross และการแจ้งข้อมูลในการเก็บรักษาข้อมูลของคุณด้วยที่มีความจำเป็น เพื่อให้คุณได้รับข้อมูลเพื่อการสมัครสมาชิกผลประโยชน์สุขภาพของคุณ.

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Tiếng Việt (Vietnamese):