

National Imaging Associates, Inc.*	
Clinical guidelines: SACROILIAC JOINT INJECTIONS <del>(with image guidance (fluoroscopy or CT))</del>	Original Date: January <del>10</del> , 2014
CPT Codes: 27096	Last Revised Date: <del>June</del> May 202 <del>21</del>
Guideline Number: NIA_CG_305	Implementation Date: January 202 <del>32</del>

Note: Any injection performed at least two years from prior injections in the same region will be considered a new episode of care and the INITIAL injection requirements must be met for approval. Events such as surgery on the same spinal region or any new pathology would also prompt a new episode of care.

#### INDICATIONS FOR SACROILIAC JOINT (SIJ) INJECTIONS ~~(SIJ)~~ (Intraarticular or ligamentous injections only)

- For the treatment of Sacroiliac Joint (SIJ) pain— ALL of the following must be met:
  - Primarily axial Low back pain ~~maximal~~ (below level of L5) which may radiate to the groin or lower extremity ~~persisting at least 3 months~~<sup>1</sup> ~~(Manchikanti, 2013a); AND~~
  - Pain causing functional limitations or pain levels of  $\geq 6$  on a scale of 0 to 10<sup>1-3</sup>
  - Positive exam findings to suggest the diagnosis which include the pelvic distraction test, pelvic compression test, thigh thrust test, FABER (Patrick's test) or Gaenslen's test<sup>4, 5</sup> ~~(MacVicar, 2017; Telli, 2018); AND~~
  - Duration of pain of at least 3 months
  - Failure to respond to non-operative conservative ~~non-operative~~ therapy ~~management~~<sup>\*</sup> targeting the requested spinal region for a minimum of 6 weeks in the last 6 months unless the medical reason this treatment cannot be done is clearly documented; ~~or~~ OR details of active engagement in ~~other forms of active~~ ongoing non-operative conservative non-operative ~~treatment~~ therapy<sup>\*</sup>; if the ~~patient~~ individual has had prior spinal injections in the same region, ~~unless the medical reason this treatment cannot be done is clearly documented~~<sup>1, 2</sup> ~~(Manchikanti, 2013a; Summers, 2013); AND~~
  - ~~• Pain causing functional limitations or pain levels of  $\geq 6$  on a scale of 0 to 10~~<sup>1, 4, 5</sup> ~~(Manchikanti, 2013a, 2009; Summers, 2013); AND~~
  - ~~• All procedures must be performed using fluoroscopic or CT guidance~~<sup>6</sup> ~~(Schneider, 2020)~~

\* National Imaging Associates, Inc. (NIA) is a subsidiary of Magellan Healthcare, Inc.

**NOTE:** ~~SI joint injections performed at the same time as other injections will be deemed~~  
~~**NOT** medically necessary.~~

• **For the treatment of spondyloarthritis<sup>6</sup> (~~ACR, 2012~~)—~~ALL~~ of the following must be met:**

- ⊖• The ~~patient~~**individual** has experienced ≥ 3 months of low back pain;~~AND~~
- ⊖• Age of onset < 45 years;~~AND~~
- ⊖• Comprehensive pain management program including physical therapy, home exercise, patient education, psychosocial support, ~~or~~**and** oral medication is in place;~~AND~~
- ⊖• Prior history of evidence of sacroiliitis on imaging (i.e., active inflammation on magnetic resonance imaging [MRI] or definite radiographic sacroiliitis grade > 2 bilaterally or grade 3-4 unilaterally);~~AND~~
- ⊖• **1 or more** spondyloarthritis features:
  - Inflammatory back pain with **at least 4** of the following criteria present:
    - ◆■ Age at onset < 45 years
    - ◆■ Insidious onset
    - ◆■ Improvement with exercise
    - ◆■ No improvement with rest
    - ◆■ Pain at night (with improvement upon getting up)
  - Arthritis
  - Enthesitis of the heel (irritability of muscles, tendons, or ligaments where they enter the bone)
  - Uveitis (inflammation of the uvea, the middle layer of the eye)
  - Dactylitis (inflammation of a finger or toe)
  - Psoriasis
  - Crohn's/colitis
  - Good response to NSAIDs
  - Family history of spondyloarthritis
  - Positive testing for HLA-B27
  - Elevated C-reactive protein (CRP)

**NOTE: All procedures must be performed using fluoroscopic, US, or CT guidance**<sup>7-10</sup>

### **FREQUENCY OF REPEAT INJECTIONS**

**Sacroiliac joint injections may be repeated only as medically necessary. Each sacroiliac joint injection requires an authorization, and the following criteria must be met for repeat injections:**

- Up to 2 sacroiliac joint injections may be performed in the initial treatment phase, no sooner than 2 weeks apart, provided that at least 50% pain relief or significant documented functional improvement is obtained<sup>1</sup>
- Sacroiliac joint injections may only be repeated after the initial treatment phase if symptoms return, and the individual has had at least a 50% pain relief or significant documented functional improvement for a minimum of 6 weeks after each therapeutic injection<sup>1</sup>
- The individual continues to have pain causing functional disability or average pain levels  $\geq 6$  on a scale of 0 to 10<sup>1-3, 11</sup>
- The individual is engaged in ongoing active conservative therapy\*, unless the medical reason this treatment cannot be done is clearly documented<sup>2, 11, 12</sup>
- Positive exam findings to suggest the diagnosis which include the pelvic distraction test, pelvic compression test, thigh thrust test, FABER (Patrick's test) or Gaenslen's test for individuals receiving other interventional pain injections in the lumbar/sacral region since the previous SIJ injection.<sup>4, 5</sup>
- Repeat therapeutic injections should not be done more frequently than every 2 months with a maximum of 4 sacroiliac joint injections in a 12-month period<sup>1</sup>

NOTE: It is generally considered not medically necessary to perform multiple interventional pain procedures on the same date of service. Documentation of a medical reason to perform injections in different regions on the same day can be provided and will be considered on a case-by-case basis (i.e., holding anticoagulation therapy on two separate dates creates undue risk for the patient).

## EXCLUSIONS

These requests are excluded from consideration under this guideline:

- Sacral lateral branch blocks (S1, S2, S3)
- Sacroiliac joint denervation

## FREQUENCY OF REPEAT THERAPEUTIC INJECTIONS

- ~~Up to two SIJ injections may be performed in the initial treatment phase, no sooner than 2 weeks apart, provided that at least 50% relief is obtained<sup>1</sup> (Manchikanti, 2013a); AND~~
- ~~SIJ injections may only be repeated after the initial treatment phase if symptoms recur and the patient has had at least a 50% reduction in pain for a minimum of six weeks after each therapeutic injection, or significant documented functional improvement for a minimum of 6 weeks after each therapeutic injection<sup>1</sup> (Manchikanti, 2013a); AND~~

- ~~The patient is actively engaged in other forms of active conservative non-operative treatment, unless pain prevents the patient from participating in conservative therapy<sup>2,7,11,12</sup> (AHRQ, 2013; Qassem, 2017; Summers, 2013); AND~~
- ~~Repeat injections should not be done more frequently than every two months for a total of 4 injections in a 12-month period<sup>1</sup> (Manchikanti, 2013a); AND~~
- ~~Pain causing functional limitations or pain levels of  $\geq 6$  on a scale of 0 to 10<sup>1-3,12</sup> (AHRQ, 2013; Manchikanti, 2013a, 2009; Summers, 2013); AND~~
- ~~Positive exam findings to suggest the diagnosis which include the pelvic distraction test, pelvic compression test, thigh thrust test, FABER (Patrick's test) or Gaenslen's test for patients receiving interventional pain treatment for pain from other sources in the lumbar/sacral region, since the previous SIJ injection (MacVicar, 2017; Telli, 2018).<sup>4,5</sup>~~

**NOTE:** Injecting multiple regions or performing multiple procedures during the same visit may be deemed medically unnecessary unless documentation is provided outlining an unusual situation (ODG, 2017).

## CONTRAINDICATIONS FOR SACROILIAC JOINT INJECTIONS

- Active systemic or spinal infection
- Skin infection at the site of needle puncture
- ~~Bleeding disorder or anticoagulation therapy~~
- ~~Uncontrolled high blood pressure~~
- ~~Uncontrolled diabetes~~
- ~~Unstable angina~~
- ~~Congestive heart failure~~
- ~~Allergies to contrast, anesthetics, or steroids (AAOS, 2009)~~

## BACKGROUND

This guideline addresses the use of sacroiliac joint injections for the treatment of low back pain that originates in the region of the sacroiliac joint (SIJ). An injection of anesthetic or steroid may be used for the diagnosis and treatment of ~~sacroiliac joint (SIJ)~~ pain syndrome disorders (such as degenerative joint disease, postsurgical injuries, or traumatic injuries), or for treatment of spondyloarthropathy (inflammatory disorders of the joints and ligaments of the spine).

**Sacroiliac joint injections are typically used for the following conditions:**

- Sacroiliac joint (SIJ) pain syndrome may be caused by various events, including pain secondary to postsurgical or traumatic injury, degeneration (wear and tear), or

pregnancy. Physical examination (history and physical, provocative maneuvers) and diagnostic injection help to identify the source of pain as the SIJ.<sup>13-15</sup>

- **Diagnostic SIJ injections** are used to determine if the SIJ pain originates with the SIJ. Diagnostic blocks can reveal (or fail to reveal) that the source of pain is originating from the SIJ, and then an appropriate treatment plan can be developed ~~(Curatolo, 2010; Manchikanti, 2013a).~~<sup>1, 16</sup>
- **Therapeutic SIJ injections** may be used to treat SIJ pain once it has been determined that the SIJ is the origin of the pain. A therapeutic injection typically includes a corticosteroid and a local anesthetic that can be injected directly into the joint (intra-articular) or into the tissues surrounding the joint (periarticular).<sup>17, 18</sup>
- **Spondyloarthropathy** (also known as spondyloarthritis) is the name for a family of rheumatic diseases that cause arthritis. Sacroiliitis is a key indicator of spondyloarthritis and is diagnosed with imaging. ~~Patient~~**Individuals** with spondyloarthropathy are generally managed by rheumatologists and account for only a small percentage of the cases that present in interventional pain management settings.<sup>19-21</sup>

## OVERVIEW

**\*Conservative Therapy - Non-operative treatment should include a multimodality approach consisting of a combination of active and inactive components. Inactive components can include rest, ice, heat, modified activities, medical devices, acupuncture, stimulators, medications, injections, and diathermy. Active modalities should be region-specific and consist of physical therapy, a physician-supervised home exercise program\*\*, or chiropractic care.**<sup>2, 12, 22</sup>

**\*\*Home Exercise Program (HEP) - The following two elements are required to meet guidelines for completion of conservative therapy:**

- **Documentation of an exercise prescription/plan provided by a physician, physical therapist, or chiropractor**<sup>12, 23, 24</sup> **; AND**
- **Follow-up documentation regarding completion of HEP after the required 6-week timeframe or inability to complete HEP due to a documented medical reason (i.e., increased pain or inability to physically perform exercises). Closure of medical offices, closure of therapy offices, patient inconvenience, or noncompliance without explanation does not constitute “inability to complete” HEP.**<sup>2, 12</sup> ~~**\*Conservative Therapy:** (Spine) should include a multimodality approach consisting of a combination of active and inactive components. Inactive components, such as rest, ice, heat, modified activities, medical devices, acupuncture or stimulators, medications, injections (including trigger point), and diathermy can be utilized. Active modalities consist of physical therapy, a physician-supervised home exercise program\*\*, or chiropractic care (Qassem, 2017; Summers, 2013).~~<sup>2, 12, 22</sup>

•

~~\*\*Home Exercise Program (HEP) — the following two elements are required to meet guidelines for completion of conservative therapy:-~~

- ~~• Documentation provided of an exercise prescription/plan<sup>8, 20</sup> (Qassem, 2017; Sculco, 2001);~~
- ~~• Follow up with member with information provided regarding completion of HEP (after suitable 6-week period), or inability to complete HEP due to physical reason—i.e., increased pain, inability to physically perform exercises. (Closure of medical offices, closure of therapy offices, patient inconvenience or noncompliance without explanation does not constitute “inability to complete” HEP).~~

Telehealth visits have become routine in modern medical practice. However, sacroiliac joint injections cannot be performed via telehealth encounters. Patient Individuals who can schedule an in-person encounter for injection, are expected to also schedule an in-person encounter for provocative physical examination, prior to injection, in order to document the medical necessity of the joint injection.

Low back pain is one of the most common of all spinal pain problems. According to the Centers for Disease Control and Prevention (CDC), the prevalence of low back pain in adults 18 years of age and older is 28.4% and may range as high as 32.1% in adults ≥ 75 years ~~(CDC, 2012).~~<sup>25</sup> Symptoms of low back pain may arise from multiple sites, including lumbar intervertebral discs, facet joints, sacroiliac joints, ligaments, fascia, muscles, and nerve root dura. The sacroiliac joint has been shown to be a source of pain in ~~10% to 27%~~10 – 30% of chronic low back pain ~~(Hansen, 2007; Simopoulos, 2012; Manchikanti, 2013a).~~<sup>1, 26-28</sup>

The sacroiliac joint (SIJ) is located between the sacrum (located at the base of the spine) and the pelvis and supports the weight of the upper body in the standing position. ~~There are~~ SIJs are in both the right and left side of the lower back ~~with s-~~Strong ligaments holding the joints in place. The SIJ is well-innervated and ~~has been shown to be~~ capable of being a source of low back pain and referred pain in the lower extremity. Low back pain originating from the SIJ can result from inflammatory conditions such as sacroiliitis, spondyloarthropathy (e.g., ankylosing spondylitis, rheumatoid spondylitis), or from postsurgical or traumatic injury, degeneration (wear and tear), or pregnancy. SIJ pain most often occurs in the buttocks and lower back and may radiate down through the buttocks and the leg. Physical examination and radiographic techniques may confirm a diagnosis related to spondyloarthropathy. Physical examination, including provocative maneuvers to elicit pain response, and controlled SIJ injections can help diagnose noninflammatory pain arising from the SIJ. ~~(Hansen, 2007; Medline Plus, 2012; Mayo Clinic, 2013).~~<sup>26, 29-31</sup>

In order to confirm correct placement of the injectable medication into the intra-articular space, fluoroscopic or computed tomography (CT) guidance is used.<sup>9, 32, 33</sup> A periarticular injection into the soft tissue may be used if ligamentous or muscular attachments are suspected to be involved. The goal of the therapeutic injection is to reduce inflammation or pain and provide longer pain relief. Long-term relief is generally defined as 6 weeks or longer, but positive responders generally have a much longer duration of response; serial injections may be

required in order to maintain therapeutic effectiveness (~~Hansen, 2007; AAOS, 2009; Hawkins, 2009~~).<sup>26, 34</sup>

Spinal injections for the treatment of SIJ pain syndrome are typically performed as one part of a comprehensive treatment program, which will nearly always include an exercise program to improve or maintain spinal mobility.<sup>14, 35</sup> Potential candidates for SIJ injections include those with low back pain originating from the SIJ that is unresponsive to conservative treatments.

Treatment for SIJ pain depends upon the signs and symptoms, as well as the underlying cause for the pain. Medications, such as over-the-counter analgesics, a short course of narcotics, muscle relaxants or tumor necrosis factor (TNF) inhibitors, such as etanercept (Enbrel), adalimumab (Humira), or infliximab (Remicade), may be prescribed. Therapy sessions with a physical therapist involving range-of-motion, stretching, and strengthening exercises may be used to maintain joint flexibility and strengthen the muscles. Other interventional procedures used to treat SIJ pain include corticosteroid injections to reduce inflammation and pain, radiofrequency denervation, electrical stimulation, or in rare cases, joint fusion (~~Mayo Clinic, 2013~~).<sup>29</sup>

The indications for coverage for the treatment of spondyloarthropathy have been established through use of the reviewed clinical studies and through criteria developed by the Assessment of SpondyloArthritis International Society (ASAS) for the classification of axial spondyloarthritis (~~Sieper, 2009~~).<sup>36</sup> They are in keeping with the benefit guidelines developed by the Centers for Medicare & Medicaid Services (CMS).<sup>37</sup>

While evidence supports that SIJ injection is an effective method of determining the source of pain, evidence supporting the efficacy of SIJ in the treatment of SIJ pain syndrome is considerably limited. There are limited controlled or prospective clinical studies to support SIJ injection for therapeutic purposes. Despite the limited quality of the clinical studies supporting SIJ injection for the treatment of SIJ pain, the procedure is recommended by the American Society of Anesthesiologists (ASA) and the American Society of Regional Anesthesia and Pain Management (ASRAPM) Practice Guidelines.<sup>38</sup> The indications for coverage have been established from the 2009 *Comprehensive Evidence-Based Guidelines for Interventional Techniques in the Management of Chronic Spinal Pain*<sup>3</sup> and updated with the 2013 *An Update of Comprehensive Evidence-Based Guidelines for Interventional Techniques in Chronic Spinal Pain. Part II: Guidance and Recommendations*.<sup>1</sup>

## POLICY HISTORY

Date	Summary
------	---------

<u>May 2022</u>	<ul style="list-style-type: none"> <li>• <u>Added note to clarify when INITIAL injection requirements must be met for approval</u></li> <li>• <u>Reorganized indications for clarity and uniformity</u></li> <li>• <u>Added region-specific wording to conservative treatment requirement (e.g., conservative therapy targeting the requested spinal region)</u></li> <li>• <u>For consistency among guidelines, changed wording and order of contraindications to injections</u></li> <li>• <u>Add US guidance for injections as option (in addition to fluoroscopic or CT guidance)</u></li> <li>• <u>Under treatment of spondyloarthropathy, replaced ‘or’ with ‘and’ in list of required components of a comprehensive pain management program</u></li> <li>• <u>Updated Frequency of Repeat Injections section</u></li> <li>• <u>Clarified lack of medical necessity of performing multiple pain procedures on same DOS</u></li> <li>• <u>Updated Contraindications</u></li> </ul>
June 2021	No change
October 2020	<ul style="list-style-type: none"> <li>• Added: “Injecting multiple regions or performing multiple procedures during the same visit may be deemed medically <b>unnecessary</b> unless documentation is provided outlining an unusual situation” (ODG, 2017).</li> <li>• Removed ‘average’: Pain causing functional limitations or average pain levels of <math>\geq 6</math> on a scale of 0 to 10 (Manchikanti, 2013a, 2009; Summers, 2013)</li> </ul>
October 2019	<ul style="list-style-type: none"> <li>• Added: All procedures must be performed using fluoroscopic or CT guidance</li> </ul>
November 2018	<ul style="list-style-type: none"> <li>• Sacroiliac Joint Injection title - Added: ‘Intraarticular or ligamentous injections only’</li> <li>• For the treatment of SIJ pain, added Note: ‘SI joint injections performed at the same time as facet injections will be deemed <u>not</u> medically necessary’</li> <li>• Removed HEP examples of yoga, Tai Chi, aerobic exercises</li> <li>• Added and updated references</li> </ul>



## REFERENCES

~~Agency for Healthcare and Research Quality (AHRQ) National Guideline Clearinghouse. Low Back Pain Medical Treatment Guidelines 2013.~~

~~American College of Rheumatology (ACR). Spondyloarthritis (Spondyloarthropathy). [http://www.rheumatology.org/Practice/Clinical/Patients/Diseases\\_And\\_Conditions/Spondylarthritiis\\_\(Spondylarthropathy\)](http://www.rheumatology.org/Practice/Clinical/Patients/Diseases_And_Conditions/Spondylarthritiis_(Spondylarthropathy)). 2012.~~

~~American Society of Anesthesiologists Task Force on Chronic Pain Management, American Society of Regional Anesthesia and Pain Medicine (ASA/ASRAPM). Practice guidelines for chronic pain management: An updated report by the American Society of Anesthesiologists Task Force on Chronic Pain Management and the American Society of Regional Anesthesia and Pain Medicine. *Anesthesiol*. 2010; 112(4):810-33. doi: 10.1097/ALN.0b013e3181c43103.~~

~~Centers for Disease Control and Prevention (CDC). 2012. Health, United States. <http://www.cdc.gov/nchs/data/hus/hus12.pdf>.~~

~~Chou R, Atlas SJ, Stanos SP, et al. Nonsurgical interventional therapies for low back pain: A review of the evidence for an American Pain Society Clinical Practice Guideline. *Spine*. 2009; 34(10):1078-93.~~

~~Curatolo M, Bogduk N. Diagnostic blocks for chronic pain. *Scand J Pain*. 2010; 1(4):186-192. [http://www.scandinavianjournalpain.com/issues?issue\\_key=S1877-8860\(10\)X0006-4](http://www.scandinavianjournalpain.com/issues?issue_key=S1877-8860(10)X0006-4).~~

~~Hansen HC, McKenzie-Brown AM, Cohen SP, et al. Sacroiliac joint interventions: A systematic review. *Pain Physician*. 2007; 10:165-184. <http://www.painphysicianjournal.com/2007/january/2007;10;165-184.pdf>.~~

~~Hansen H, Manchikanti L, Simopoulos TT, et al. A systematic evaluation of the therapeutic effectiveness of sacroiliac joint interventions. *Pain Physician*. 2012; 15(3):E247-E278. <http://www.painphysicianjournal.com/2012/may/2012;15;E247-E278.pdf>.~~

~~Kim WM, Lee HG, Jeong CW, et al. A randomized controlled trial of intra-articular prolotherapy versus Steroid injection for sacroiliac joint pain. *J Altern Complement Med*. 2010; 16(12):1285-1290.~~

~~Laslett, M. Evidence-based diagnosis and treatment of the painful sacroiliac joint. *J Man Manip Ther*. 2008; 16:142-152.~~

~~Lee JH, Lee SH, Song SH. Clinical effectiveness of botulinum toxin a compared to a mixture of steroid and local anesthetics as a treatment for sacroiliac joint pain. *Pain Med*. 2010; 1(5):692-700.~~

~~Liliang PC, Kang L, Weng HC, et al. The therapeutic efficacy of sacroiliac joint blocks with Triamcinolone Acetonide in the treatment of sacroiliac joint dysfunction without spondyloarthropathy. *Spine*. 2009; 34(9):896-900.~~

~~MacVicar J, Kreiner DS, Duszynski B, et al. Appropriate use criteria for fluoroscopically guided diagnostic and therapeutic sacroiliac interventions: Results from the Spine Intervention Society Convened Multispecialty Collaborative. *Pain Med*. 2017; 18:2081-2095.~~

~~Manchikanti L, Boswell MV, Singh V, et al. Comprehensive evidence based guidelines for interventional techniques in the management of chronic spinal pain. *Pain Physician*. 2009; 12:699-802. <http://www.painphysicianjournal.com/2009/july/2009;12;699-802.pdf>.~~

~~Manchikanti L, Datta S, Gupta S, et al. A critical review of the American pain society clinical practice guidelines for interventional techniques: Part 2. Therapeutic interventions. *Pain Physician*. 2010; 13(4):E215-E264. <http://www.painphysicianjournal.com/2010/july/2010;13;E215-E264.pdf>.~~

~~Manchikanti L, Falco FJ, Singh V, et al. An update of comprehensive evidence-based guidelines for interventional techniques in chronic spinal pain. Part I: Introduction and general considerations. *Pain Physician*. 2013.~~

~~Manchikanti L, Falco FJ, Singh V, et al. An update of comprehensive evidence-based guidelines for interventional techniques in chronic spinal pain. Part II: Guidance and recommendations. *Pain Physician*. 2013a.~~

~~Mayo Clinic. Sacroiliitis. 2013. <http://www.mayoclinic.com/health/sacroiliitis/DS00726>.~~

~~Medline Plus. Sacroiliac joint pain — aftercare. 2012. <http://www.nlm.nih.gov/medlineplus/ency/patientinstructions/000610.htm>.~~

~~Plastaras CT, Joshi AB, Garvan C, et al. Adverse events associated with fluoroscopically guided sacroiliac joint injections. *PM R*. 2012; 4(7):473-8.~~

~~Qassem A, Wilt TJ, McLean RM, et al. Noninvasive treatments for acute, subacute and chronic low back pain: A clinical practice guideline from the American College of Physicians. *Ann Intern Med*. 2017; 166(7).~~

~~Schneider B, Patel J, Smith CC. Ultrasound guidance for intra-articular sacroiliac joint injections — Spine Intervention Society. *Pain Med*. 2020 Aug 31. Epub 2020 Jun. <https://doi.org/10.1093/pm/pnaa248>.~~

~~Sculco AD, Paup DC, Fernhall B, et al. Effects of aerobic exercise on low back pain patients in treatment. *Spine J*. 2001; 1(2):95-101.~~

~~Sieper, J, Rudwaleit M, Baraliakos X, et al. The assessment of spondyloarthritis international society (ASAS) handbook: A guide to assess spondyloarthritis. *Ann Rheum Dis*. 2009; 68:ii1-ii44. <http://www.asas-group.org/education/ASAS-handbook.pdf>.~~

~~Simopoulos TT, Manchikanti L, Singh V, et al. A systematic evaluation of prevalence and diagnostic accuracy of sacroiliac joint interventions. *Pain Physician*. 2012; 15(3):E305-E344. <http://www.painphysicianjournal.com/2012/may/2012;15;E305-E344.pdf>.~~

~~Summers J. International Spine Intervention Society Recommendations for treatment of Cervical and Lumbar Spine Pain. November 14, 2013.~~

~~Telli H, Tell S, Topal M. The validity and reliability of provocation tests in the diagnosis of sacroiliac joint dysfunction. *Pain Physician*. 2018 July; 21(4):E367-376.~~

~~Reviewed / Approved by NIA Clinical Guideline Committee~~

## **GENERAL INFORMATION**

~~It is an expectation that all patients receive care/services from a licensed clinician. All appropriate supporting documentation, including recent pertinent office visit notes, laboratory data, and results of any special testing must be provided. If applicable: All prior relevant imaging results and the reason that alternative imaging cannot be performed must be included in the documentation submitted.~~

**Disclaimer:** Magellan Healthcare service authorization policies do not constitute medical advice and are not intended to govern or otherwise influence the practice of medicine. These policies are not meant to supplant your normal procedures, evaluation, diagnosis, treatment or care plans for your patients. Your professional judgement must be exercised and followed in all respects with regard to the treatment and care of your patients. These policies apply to all Magellan Healthcare subsidiaries including, but not limited to, National Imaging Associates (“Magellan”). The policies constitute only the reimbursement and coverage guidelines of Magellan. Coverage for services varies for individual members in accordance with the terms and conditions of applicable Certificates of Coverage, Summary Plan Descriptions, or contracts with governing regulatory agencies. Magellan reserves the right to review and update the guidelines at its sole discretion. Notice of such changes, if necessary, shall be provided in accordance with the terms and conditions of provider agreements and any applicable laws or regulations.

1. Manchikanti L, Abdi S, Atluri S, et al. An update of comprehensive evidence-based guidelines for interventional techniques in chronic spinal pain. Part II: guidance and recommendations. *Pain Physician*. Apr 2013;16(2 Suppl):S49-283.
2. Summers J. International Spine Intervention Society Recommendations for treatment of Cervical and Lumbar Spine Pain. 2013.
3. Manchikanti L, Boswell MV, Singh V, et al. Comprehensive evidence-based guidelines for interventional techniques in the management of chronic spinal pain. *Pain Physician*. Jul-Aug 2009;12(4):699-802.
4. MacVicar J, Kreiner DS, Duszynski B, Kennedy DJ. Appropriate Use Criteria for Fluoroscopically Guided Diagnostic and Therapeutic Sacroiliac Interventions: Results from the Spine Intervention Society Convened Multispecialty Collaborative. *Pain Med*. Nov 1 2017;18(11):2081-2095. doi:10.1093/pm/pnx253
5. Telli H, Telli S, Topal M. The Validity and Reliability of Provocation Tests in the Diagnosis of Sacroiliac Joint Dysfunction. *Pain Physician*. Jul 2018;21(4):E367-e376.

6. American College of Rheumatology (ACR), Huston K. Spondyloarthritis. American College of Rheumatology. Updated March 2019. Accessed January 21, 2022. <https://www.rheumatology.org/I-Am-A/Patient-Caregiver/Diseases-Conditions/Spondyloarthritis>
7. Schneider B, Patel J, Smith C. Ultrasound Guidance for Intra-articular Sacroiliac Joint Injections. *Pain Med*. Nov 1 2020;21(11):3233-3234. doi:10.1093/pm/pnaa248
8. Soneji N, Bhatia A, Seib R, Tumber P, Dissanayake M, Peng PW. Comparison of Fluoroscopy and Ultrasound Guidance for Sacroiliac Joint Injection in Patients with Chronic Low Back Pain. *Pain Pract*. Jun 2016;16(5):537-44. doi:10.1111/papr.12304
9. Jee H, Lee JH, Park KD, Ahn J, Park Y. Ultrasound-guided versus fluoroscopy-guided sacroiliac joint intra-articular injections in the noninflammatory sacroiliac joint dysfunction: a prospective, randomized, single-blinded study. *Arch Phys Med Rehabil*. Feb 2014;95(2):330-7. doi:10.1016/j.apmr.2013.09.021
10. Hofmeister M, Dowsett LE, Lorenzetti DL, Clement F. Ultrasound- versus fluoroscopy-guided injections in the lower back for the management of pain: a systematic review. *Eur Radiol*. Jul 2019;29(7):3401-3409. doi:10.1007/s00330-019-06065-3
11. Agency for Healthcare and Research Quality (AHRQ) National Guideline Clearinghouse. Low Back Pain Medical Treatment Guidelines. 2013.
12. Qaseem A, Wilt TJ, McLean RM, et al. Noninvasive Treatments for Acute, Subacute, and Chronic Low Back Pain: A Clinical Practice Guideline From the American College of Physicians. *Ann Intern Med*. Apr 4 2017;166(7):514-530. doi:10.7326/m16-2367
13. Bronsard N, Pelletier Y, Darmante H, Andréani O, de Peretti F, Trojani C. Sacroiliac joint syndrome after lumbosacral fusion. *Orthop Traumatol Surg Res*. Oct 2020;106(6):1233-1238. doi:10.1016/j.otsr.2020.05.012
14. Javadov A, Ketenci A, Aksoy C. The Efficiency of Manual Therapy and Sacroiliac and Lumbar Exercises in Patients with Sacroiliac Joint Dysfunction Syndrome. *Pain Physician*. May 2021;24(3):223-233.
15. Barros G, McGrath L, Gelfenbeyn M. Sacroiliac Joint Dysfunction in Patients With Low Back Pain. *Fed Pract*. Aug 2019;36(8):370-375.
16. Curatolo M, Bogduk N. Diagnostic blocks for chronic pain. *Scand J Pain*. Oct 1 2010;1(4):186-192. doi:10.1016/j.sjpain.2010.07.001
17. Andalib A, Etemadifar M, Ansari Bardei M. Evaluation of Intra-articular Corticosteroid Injections in Patients with Sacroiliac Pain. *Adv Biomed Res*. 2022;11:13. doi:10.4103/abr.abr\_100\_20
18. Wu L, Tafti D, Varacallo M. Sacroiliac Joint Injection. StatPearls Publishing LLC. Updated February 12, 2022. Accessed April 22, 2022. <https://www.ncbi.nlm.nih.gov/books/NBK513245/>
19. Sen R, Goyal A, Hurley JA. Seronegative Spondyloarthropathy. StatPearls Publishing LLC. Updated July 25, 2021. Accessed April 26, 2022. <https://pubmed.ncbi.nlm.nih.gov/29083692/>
20. Haroon M, Ahmad M, Baig MN, Mason O, Rice J, FitzGerald O. Inflammatory back pain in psoriatic arthritis is significantly more responsive to corticosteroids compared to back pain in ankylosing spondylitis: a prospective, open-labelled, controlled pilot study. *Arthritis Res Ther*. Apr 17 2018;20(1):73. doi:10.1186/s13075-018-1565-4

21. Ma Z, Liu X, Xu X, et al. Safety of tumor necrosis factor-alpha inhibitors for treatment of ankylosing spondylitis: A meta-analysis. *Medicine (Baltimore)*. Jun 2017;96(25):e7145. doi:10.1097/md.00000000000007145
22. American College of Radiology. ACR Appropriateness Criteria® Low Back Pain. American College of Radiology (ACR). Updated 2021. Accessed November 10, 2021. <https://acsearch.acr.org/docs/69483/Narrative/>
23. Sculco AD, Paup DC, Fernhall B, Sculco MJ. Effects of aerobic exercise on low back pain patients in treatment. *Spine J*. Mar-Apr 2001;1(2):95-101. doi:10.1016/s1529-9430(01)00026-2
24. Durmus D, Unal M, Kuru O. How effective is a modified exercise program on its own or with back school in chronic low back pain? A randomized-controlled clinical trial. *J Back Musculoskelet Rehabil*. 2014;27(4):553-61. doi:10.3233/bmr-140481
25. Centers for Disease Control and Prevention (CDC). Health, United States, 2012 with special feature on emergency care. National Center for Health Statistics, U.S. Department of Health and Human Services. Updated May 2013. Accessed January 21, 2022. <https://www.cdc.gov/nchs/data/abus/abus12.pdf>
26. Hansen HC, McKenzie-Brown AM, Cohen SP, Swicegood JR, Colson JD, Manchikanti L. Sacroiliac joint interventions: a systematic review. *Pain Physician*. Jan 2007;10(1):165-84.
27. Simopoulos TT, Manchikanti L, Singh V, et al. A systematic evaluation of prevalence and diagnostic accuracy of sacroiliac joint interventions. *Pain Physician*. May-Jun 2012;15(3):E305-44.
28. Chuang CW, Hung SK, Pan PT, Kao MC. Diagnosis and interventional pain management options for sacroiliac joint pain. *Ci Ji Yi Xue Za Zhi*. Oct-Dec 2019;31(4):207-210. doi:10.4103/tcmj.tcmj\_54\_19
29. Mayo Clinic. Sacroiliitis. Mayo Foundation for Medical Education and Research (MFMER). Updated 2022. Accessed January 21, 2022. <https://www.mayoclinic.org/diseases-conditions/sacroiliitis/symptoms-causes/syc-20350747>
30. Ma CB, Zieve D, Conaway B. Sacroiliac joint pain - aftercare. National Library of Medicine, National Institutes of Health. Updated November 12, 2020. Accessed January 21, 2022. <https://medlineplus.gov/ency/patientinstructions/000610.htm>
31. Dydyk AM, Forro SD, Hanna A. Sacroiliac Joint Injury. StatPearls Publishing LLC. Updated August 4, 2021. Accessed April 21, 2022. <https://www.ncbi.nlm.nih.gov/books/NBK557881/>
32. Paik NC. Intraarticular Sacroiliac Joint Injection Under Computed Tomography Fluoroscopic Guidance: A Technical Note to Reduce Procedural Time and Radiation Dose. *Cardiovasc Intervent Radiol*. Jul 2016;39(7):1057-60. doi:10.1007/s00270-015-1268-z
33. Bessar AAA, Arnaout MM, Basha MAA, Shaker SE, Elsayed AE, Bessar MA. Computed tomography versus fluoroscopic guided-sacroiliac joint injection: a prospective comparative study. *Insights Imaging*. Mar 18 2021;12(1):38. doi:10.1186/s13244-021-00982-y
34. Hansen H, Manchikanti L, Simopoulos TT, et al. A systematic evaluation of the therapeutic effectiveness of sacroiliac joint interventions. *Pain Physician*. May-Jun 2012;15(3):E247-78.
35. Nejati P, Safarcherati A, Karimi F. Effectiveness of Exercise Therapy and Manipulation on Sacroiliac Joint Dysfunction: A Randomized Controlled Trial. *Pain Physician*. Jan 2019;22(1):53-61.

36. Sieper J, Rudwaleit M, Baraliakos X, et al. The Assessment of SpondyloArthritis international Society (ASAS) handbook: a guide to assess spondyloarthritis. *Ann Rheum Dis*. Jun 2009;68 Suppl 2:ii1-44. doi:10.1136/ard.2008.104018
37. National Government Services. LCD L33622: Pain Management. Centers for Medicare & Medicaid Services (CMS). Updated June 24, 2020. Accessed April 26, 2022.  
<https://www.cms.gov/medicare-coverage-database/view/lcd.aspx?lcdId=33622&ver=27>
38. Practice guidelines for chronic pain management: an updated report by the American Society of Anesthesiologists Task Force on Chronic Pain Management and the American Society of Regional Anesthesia and Pain Medicine. *Anesthesiology*. Apr 2010;112(4):810-33. doi:10.1097/ALN.0b013e3181c43103

### **ADDITIONAL RESOURCES**

- 1. Chou R, Atlas SJ, Stanos SP, Rosenquist RW. Nonsurgical interventional therapies for low back pain: a review of the evidence for an American Pain Society clinical practice guideline. *Spine (Phila Pa 1976)*. May 1 2009;34(10):1078-93. doi:10.1097/BRS.0b013e3181a103b1**
- 2. Hansen H, Manchikanti L, Simopoulos TT, et al. A systematic evaluation of the therapeutic effectiveness of sacroiliac joint interventions. *Pain Physician*. May-Jun 2012;15(3):E247-78.**
- 3. Kim WM, Lee HG, Jeong CW, Kim CM, Yoon MH. A randomized controlled trial of intra-articular prolotherapy versus steroid injection for sacroiliac joint pain. *J Altern Complement Med*. Dec 2010;16(12):1285-90. doi:10.1089/acm.2010.0031**
- 4. Laslett M. Evidence-based diagnosis and treatment of the painful sacroiliac joint. *J Man Manip Ther*. 2008;16(3):142-52. doi:10.1179/jmt.2008.16.3.142**
- 5. Lee JH, Lee SH, Song SH. Clinical effectiveness of botulinum toxin A compared to a mixture of steroid and local anesthetics as a treatment for sacroiliac joint pain. *Pain Med*. May 2010;11(5):692-700. doi:10.1111/j.1526-4637.2010.00838.x**
- 6. Liliang PC, Lu K, Weng HC, Liang CL, Tsai YD, Chen HJ. The therapeutic efficacy of sacroiliac joint blocks with triamcinolone acetonide in the treatment of sacroiliac joint dysfunction without spondyloarthropathy. *Spine (Phila Pa 1976)*. Apr 20 2009;34(9):896-900. doi:10.1097/BRS.0b013e31819e2c78**
- 7. Manchikanti L, Datta S, Gupta S, et al. A critical review of the American Pain Society clinical practice guidelines for interventional techniques: part 2. Therapeutic interventions. *Pain Physician*. Jul-Aug 2010;13(4):E215-64.**
- 8. Manchikanti L, Falco FJ, Singh V, et al. An update of comprehensive evidence-based guidelines for interventional techniques in chronic spinal pain. Part I: introduction and general considerations. *Pain Physician*. Apr 2013;16(2 Suppl):S1-48.**
- 9. Plastaras CT, Joshi AB, Garvan C, et al. Adverse events associated with fluoroscopically guided sacroiliac joint injections. *PM R*. Jul 2012;4(7):473-8. doi:10.1016/j.pmrj.2012.02.001**

**Reviewed / Approved by NIA Clinical Guideline Committee**





### **GENERAL INFORMATION**

It is an expectation that all patients receive care/services from a licensed clinician. All appropriate supporting documentation, including recent pertinent office visit notes, laboratory data, and results of any special testing must be provided. If applicable: All prior relevant imaging results and the reason that alternative imaging cannot be performed must be included in the documentation submitted.

**Disclaimer:** Magellan Healthcare service authorization policies do not constitute medical advice and are not intended to govern or otherwise influence the practice of medicine. These policies are not meant to supplant your normal procedures, evaluation, diagnosis, treatment or care plans for your patients. Your professional judgement must be exercised and followed in all respects with regard to the treatment and care of your patients. These policies apply to all Magellan Healthcare subsidiaries including, but not limited to, National Imaging Associates (“Magellan”). The policies constitute only the reimbursement and coverage guidelines of Magellan. Coverage for services varies for individual members in accordance with the terms and conditions of applicable Certificates of Coverage, Summary Plan Descriptions, or contracts with governing regulatory agencies. Magellan reserves the right to review and update the guidelines at its sole discretion. Notice of such changes, if necessary, shall be provided in accordance with the terms and conditions of provider agreements and any applicable laws or regulations.