Facet Neurotomy Guideline

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# I. REVIEW CRITERIA FOR FACET NEUROTOMY—CERVICAL AND LUMBAR

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Diagnosis</th>
<th>Subjective/Objective</th>
<th>Diagnostic tests</th>
<th>Conservative care</th>
</tr>
</thead>
</table>
| Cervical facet neurotomy           | Cervical pain that meets these criteria:                                  | Segmental pain or tenderness at the level of the potentially involved unilateral facet joint | Diagnostic imaging (e.g. CT, MRI) as needed to rule out any correctable structural lesion  
AND                                                                 | At least 6 months of conservative treatment, including for example:  
• Physical therapy  
• Medications  
• Manual therapy (mobilization/manipulation) |
| ---                                | • Is non-radicular,                                                       | AND                                                                                  | Two different diagnostic medial branch blocks:               
1. Short-acting, low-volume (≤0.5 ml) local anesthetic  
2. Long-acting, low-volume (≤0.5 ml) local anesthetic |                                                                                     |
|                                   | • Has lasted at least 6 months,                                          | The region involved is neurologically intact or if not, address the deficit in the treatment plan | A placebo block may also be used.  
Steroids should not be used with the anesthetic blocks.  
AND                                                                 |                                                                                     |
|                                   | • Can be referred to the facet joint,                                    |                                                                                      | Documented COMPLETE (100%) relief of pain with EACH block.  
• Documentation of pain relief should be a patient-generated report in real time, every 15 minutes for the first six hours following the block. The documentation tool is included in this guideline (Pain Relief Diary)  
• Duration of pain relief should be consistent with the expected duration of the local anesthetic injected. |                                                                                     |
|                                   | • Is unresponsive to other therapies including conservative care        |                                                                                      |                                                                                   |                                                                                     |
|                                   | • There are no other clear structural causes of neck pain, and           |                                                                                      |                                                                                   |                                                                                     |
|                                   | • There is no other pain syndrome affecting the spine                    |                                                                                      |                                                                                   |                                                                                     |
|                                   | AND                                                                       |                                                                                      |                                                                                   |                                                                                     |
|                                   | The patient is over 17 years of age                                      |                                                                                      |                                                                                   |                                                                                     |

*One joint per each intervention (unilateral), with documented, clinically meaningful improvement in function before further neurotomy at any level

*see p. 6 of guideline

Effective October 1, 2014
A request may be appropriate for
If the patient has
AND the diagnosis is supported by these clinical findings
AND this has been done (if recommended)

<table>
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</thead>
<tbody>
<tr>
<td>Lumbar facet neurotomy</td>
<td>Low back pain that:</td>
<td>Segmental pain or tenderness at the level of the potentially involved unilateral facet joint</td>
<td>Diagnostic imaging (CT, MRI) as needed to rule out any correctable structural lesion AND Two different diagnostic medial branch blocks: 1) Short-acting, low-volume (≤0.5 ml) local anesthetic 2) Long-acting, low-volume (≤0.5 ml) local anesthetic</td>
<td>At least 6 months of conservative treatment, including for example:  • Physical therapy  • Medications  • Manual therapy (mobilization/manipulation)</td>
</tr>
<tr>
<td></td>
<td>• Is non-radicular AND</td>
<td></td>
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<td>• Has lasted at least 6 months AND</td>
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<td></td>
<td>• Can be referred to the facet joint AND</td>
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<td></td>
<td>• Is unresponsive to other therapies including conservative care AND</td>
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<tr>
<td></td>
<td>• There are no other clear structural causes of back pain</td>
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<td></td>
<td>• There is no other pain syndrome affecting the spine AND</td>
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<td></td>
<td>*see p. 6 of guideline</td>
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</tr>
<tr>
<td></td>
<td>The patient is over 17 years of age</td>
<td></td>
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</tr>
</tbody>
</table>

Segmental pain or tenderness at the level of the potentially involved unilateral facet joint AND The region involved is neurologically intact or if not, address the deficit in the treatment plan.

Neurotomy will not be approved without worker-generated, real time pain diary documentation of the effectiveness of the medial branch blocks, using the Pain Relief Diary on page 8 of this guideline.

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II. INTRODUCTION

The Department of Labor and Industries first published a guideline for facet neurotomy in August 2005. The original guideline was created by staff in the Office of the Medical Director, in consultation with practicing medical experts, based on the best scientific literature available. Randomized, double blind control trials on facet neurotomy in the treatment of cervical or lumbar facet (zygapophyseal) pain were reviewed. Strict adherence to established inclusion and exclusion criteria led to the selection of individuals with a clear diagnosis of medial branch-mediated nerve pain that may benefit from a facet neurotomy. The literature all had consistent conclusions:

1) A comprehensive physical exam and diagnostic workup is essential to exclude any reversible, structural pathology that could be the cause of the reported pain;
2) Diagnostic medial branch nerve blocks were given using not more than 0.5 ml of either a short-acting or long-acting anesthetic; and
3) Documentation of pain relief following each block corresponded to the expected duration of the local anesthetic injected.

This revision complies with the decision on facet neurotomy made by the Washington State Health Care Authority’s (HCA) Health Technology Assessment Program, May 2014. For the complete decision, see http://www.hca.wa.gov/hta/Pages/index.aspx. The changes to this guideline from the 2005 criteria include:

Changes to the guideline include:

- Requirements for administering and measuring the effects of the diagnostic medial branch blocks
- Limitations on the number of neurotomies allowed
- Limitations on vertebral levels (C3-4 through C6-7) for cervical facet neurotomy

III. DOCUMENTATION OF EFFECTIVENESS

For diagnostic blocks:

No pain medication, including IV analgesia, should be taken for four hours prior to or during each diagnostic medial branch nerve block. Conscious sedation should not be administered before or during a diagnostic block except in an extreme case of anxiety. Prior to the block, pain should be reproducible with positioning of the patient, to at least a “4” on a 0-10 pain scale.

After each diagnostic block, the injured worker must document the level of pain relief obtained using the Pain Relief Diary found in this guideline (it may be copied as needed). The worker is to remain in the clinic area for at least 30 minutes after administration of the block. Then, the patient is to engage in the activities that previously produced pain and document the level of pain relief obtained every 15 minutes for a minimum of six hours following each block, or until their usual level of pain returns, whichever occurs first. The worker is to return the completed form to the physician at the next scheduled office visit. Place a copy of the Pain Relief Diary in the medical record, send a copy to the department or self-insurer, and another copy to the department’s utilization review vendor if a facet neurotomy is to be requested.

Facet neurotomy will NOT be approved unless the Pain Relief Diary is submitted after each medial branch block.

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For facet neurotomy:

If the diagnostic blocks are successful (as described in criteria table), and a facet neurotomy is approved, the provider and the patient should continue to document improvement in function and pain. Providers should use a valid and standardized assessment tool that emphasizes functional measures. One example of such a tool, the two-item chronic pain scale, which is used in the department’s opioid guideline, is included in the appendix to this guideline. Validated scales that are specific to the cervical or lumbar regions may also be used.

For repeat facet neurotomy:

Repeat facet neurotomy will not be authorized unless there is clear documentation that:

- More than 180 days has elapsed since the preceding facet neurotomy was performed; and
- The preceding facet neurotomy produced clinically meaningful improvement in function; and
- The clinically meaningful improvement in function was associated with rehabilitative benefits, such as enabling the worker to participate in vocational rehabilitation, to successfully complete a work-hardening program, or to engage in other activities that assist the worker in improving physical or vocational functioning in an on-going manner; and
- All the guideline criteria are met, and
- The worker is not at maximum medical improvement; and
- The request has undergone utilization review.

IV. PRE AND POST-NEUROTOMY PLANNING AND RETURN TO WORK

Prior to a facet neurotomy, a formal plan for reactivation must be developed and agreed upon by the patient and the provider. Vocational assessment and/or plan development should be considered prior to the procedure. Since facet neurotomy is done only after other treatments have failed to provide sufficient benefit, the worker may be determined to be at maximum medical improvement after the procedure.

Progressive reactivation, as appropriate based on the injured worker’s condition, may include up to four weeks of outpatient physical therapy or occupational therapy, home exercise program, or work hardening. The ultimate goal is to return to a pre-injury level of functioning and a return to work.

V. LIMITATIONS TO COVERAGE

The following procedures will not be covered:

- Facet neurotomy above C3
- Facet neurotomy for the thoracic spine
- Sacral or SI joint neurotomy
- Dorsal rhizotomy
- Facet neurotomy for headache
- Dorsal root ganglionectomy
- Transection or avulsion of other extradural spinal nerves
- Repeat neurotomy except under rare circumstances; see above.

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VI. FACET NEUROTOMY PAIN RELIEF DIARY

The administration of medial branch blocks requires technical expertise as well as thorough planning to evaluate and measure its effect. It is essential that the provider requesting the block work with the interventionist and explain to the patient the importance of completing the Pain Relief Diary per the requirements. The provider is required to complete the Pain Relief Diary (found on the following page) to document a successful medial branch block and send it to utilization review so they can evaluate whether to approve the request for a facet neurotomy.

See next page for pain relief diary.
Pain Relief Diary

Name: _____________________ Claim # ____________

Date of block: ____________________ Time of block: ____________

Instructions for the patient and provider: **You MUST complete and submit this form in order to have a facet neurotomy considered for approval.** Complete the form in “real time” following the administration of a facet block. Pain relief level should be recorded while doing activities that previously caused pain.

Using the scale below, document the degree of pain intensity every 15 minutes starting at the time the block was given. Continue to document pain in the appropriate time frame **every fifteen minutes for a full 6 hours** following the block.

<table>
<thead>
<tr>
<th>Time After Block</th>
<th>Pain Level 0-10, 0=no pain and 10=worst possible pain</th>
<th>Pain Level 0-10, 0=no pain and 10=worst possible pain</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 minutes</td>
<td>3 hr 15 min</td>
<td>3 hr 15 min</td>
</tr>
<tr>
<td>30 minutes</td>
<td>3 hr 30 min</td>
<td>3 hr 30 min</td>
</tr>
<tr>
<td>45 minutes</td>
<td>3 hr 45 min</td>
<td>3 hr 45 min</td>
</tr>
<tr>
<td>1 hour</td>
<td>4 hours</td>
<td>4 hours</td>
</tr>
<tr>
<td>1 hr 15 min</td>
<td>4 hr 15 min</td>
<td>4 hr 15 min</td>
</tr>
<tr>
<td>1 hr 30 min</td>
<td>4 hr 30 min</td>
<td>4 hr 30 min</td>
</tr>
<tr>
<td>1 hr 45 min</td>
<td>4 hr 45 min</td>
<td>4 hr 45 min</td>
</tr>
<tr>
<td>2 hours</td>
<td>5 hours</td>
<td>5 hours</td>
</tr>
<tr>
<td>2 hr 15 min</td>
<td>5 hr 15 min</td>
<td>5 hr 15 min</td>
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<tr>
<td>2 hr 30 min</td>
<td>5 hr 30 min</td>
<td>5 hr 30 min</td>
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<tr>
<td>2 hr 45 min</td>
<td>5 hr 45 min</td>
<td>5 hr 45 min</td>
</tr>
<tr>
<td>3 hours</td>
<td>6 hours</td>
<td>6 hours</td>
</tr>
</tbody>
</table>

Effective October 1, 2014
VII. MEASURING FUNCTIONAL IMPROVEMENT

Effective facet neurotomy should result in clinically meaningful improvement in function. Providers should track function and pain on a regular basis, using the same validated tools at each visit, to determine the effect of their treatments. Documentation of improved function, meaning an improvement of at least 30%, is required for a repeat neurotomy to be considered.

One way to measure improvement in function is with the two-item graded chronic pain scale, below, which the department recommends in its opioid prescribing guideline. For a version of this scale with examples of functional activities, see L&I’s opioid web page at www.opioids.LNI.wa.gov.

Two-item graded chronic pain scale

1. **In the last month**, how much has pain interfered with your daily activities? Use a scale from 0 to 10, where 0 is “no interference” and 10 is “unable to carry on any activities.”

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

2. In the last month, on average, how would you rate your pain? Use a scale from 0 to 10, where 0 is “no pain” and 10 is “pain as bad as it could be.” *That is, your usual pain at times you were in pain*

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Injury-specific assessment tools, such as the neck disability index for cervical pain, have often been used to measure effectiveness of treatments. Generalized disability scales such as the Oswestry Disability Index, are also familiar to providers and relatively easy to use. Regardless of the assessment tool used, pain and functional improvement should be documented regularly and consistently.
REFERENCES


