

Clear Resolutions Inc.

An Independent Review Organization

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Notice of Independent Review Decision

DATE OF REVIEW: MARCH 21, 2008

IRO CASE #:

DESCRIPTION OF THE SERVICE OR SERVICES IN DISPUTE

Lumbar Discogram, 62290, 72295

A DESCRIPTION OF THE QUALIFICATIONS FOR EACH PHYSICIAN OR OTHER HEALTH CARE PROVIDER WHO REVIEWED THE DECISION

MD, Board Certified Orthopedic Surgeon

REVIEW OUTCOME

Upon independent review the reviewer finds that the previous adverse determination/adverse determinations should be:

- Upheld (Agree)
- Overturned (Disagree)
- Partially Overturned (Agree in part/Disagree in part)

INFORMATION PROVIDED TO THE IRO FOR REVIEW

Adverse Determination Letter, 1/24/08

Adverse Determination Letter, 2/12/08

Official Disability Guidelines Treatment in Worker's Comp 2008 Updates, Low Back Discography

OR report, 12/6/02

Office notes, Dr., 2/14/07, 3/14/07, 4/13/07, 5/14/07, 6/22/07, 8/1/07, 10/19/07, 12/5/07, 1/4/08

PATIENT CLINICAL HISTORY [SUMMARY]:

The claimant is a xx-year-old male with chronic lower back pain and lower extremity symptoms following a lifting injury on xx/xx/xx. He underwent a left laminectomy/discectomy at L4-5 on 12/06/02. The claimant continued with lower back and left lower extremity pain and weakness

despite medications and injections. Lumbar x-rays on 06/22/07 reportedly showed a 5-millimeter retrolisthesis at L5–S1 with no motion and decreased disc height L5-S1. Clinical findings noted diminished left patella and Achilles reflexes with decreased left EHL and anterior tibialis. There was reference to an MRI from 11/08/06 that demonstrated disc desiccation from L3 through S1 with multilevel spinal canal and neuroforaminal stenosis. A diagnostic lumbar discogram had been requested and non-certified on several occasions. An appeal was submitted.

ANALYSIS AND EXPLANATION OF THE DECISION INCLUDE CLINICAL BASIS, FINDINGS AND CONCLUSIONS USED TO SUPPORT THE DECISION.

The reviewer finds that lumbar discogram is not medically necessary.

This is a xx-year-old male, status post discectomy and hemilaminectomy in 2002 who has neurocompressive symptoms on clinical examination. He has been treated with medications and injections.

He has an MRI dated 11/08/08. The formal report is unavailable for me, but the interpretation was that it demonstrated disc desiccation at L3 through S1 with multilevel spinal canal and neural foraminal stenosis. There is no indication that this is a suboptimal study. It is unclear what benefit a discogram will provide in this clinical scenario. As such, the reviewer finds that lumbar discogram is not medically necessary for this patient.

Official Disability Guidelines Treatment in Worker's Comp 2008 Updates, Low Back Discography: Not recommended. In the past, discography has been used as part of the pre-operative evaluation of patients for consideration of surgical intervention for lower back pain. However, the conclusions of recent, high quality studies on discography have significantly questioned the use of discography results as a preoperative indication for either IDET or spinal fusion. These studies have suggested that reproduction of the patient's specific back complaints on injection of one or more discs (concordance of symptoms) is of limited diagnostic value. (Pain production was found to be common in non-back pain patients, pain reproduction was found to be inaccurate in many patients with chronic back pain and abnormal psychosocial testing, and in this latter patient type, the test itself was sometimes found to produce significant symptoms in non-back pain controls more than a year after testing.) Also, the findings of discography have not been shown to consistently correlate well with the finding of a High Intensity Zone (HIZ) on MRI. Discography may be justified if the decision has already been made to do a spinal fusion, and a negative discogram could rule out the need for fusion (but a positive discogram in itself would not allow fusion). (Carragee-Spine, 2000) (Carragee2-Spine, 2000) (Carragee3-Spine, 2000) (Carragee4-Spine, 2000) (Bigos, 1999) (ACR, 2000) (Resnick, 2002) (Madan, 2002) (Carragee-Spine, 2004) (Carragee2, 2004) (Maghout-Juratli, 2006) (Pneumaticos, 2006) (Airaksinen, 2006) Discography may be supported if the decision has already been made to do a spinal fusion, and a negative discogram could rule out the need for fusion on that disc (but a positive discogram in itself would not justify fusion). Discography may help distinguish asymptomatic discs among morphologically abnormal discs in patients without psychosocial issues. Precise prospective categorization of discographic diagnoses may predict outcomes from treatment, surgical or otherwise. (Derby, 2005) (Derby2, 2005) (Derby, 1999) Positive discography was not highly predictive in identifying outcomes from spinal fusion. A recent study found only a 27% success from spinal fusion in patients with low back pain and a positive single-level low-pressure provocative discogram, versus a 72% success in patients having a well-accepted single-level lumbar pathology of unstable spondylolisthesis. (Carragee,

2006) The prevalence of positive discogram may be increased in subjects with chronic low back pain who have had prior surgery at the level tested for lumbar disc herniation. (Heggness, 1997) Discography involves the injection of a water-soluble imaging material directly into the nucleus pulposus of the disc. Information is then recorded about the pressure in the disc at the initiation and completion of injection, about the amount of dye accepted, about the configuration and distribution of the dye in the disc, about the quality and intensity of the patient's pain experience and about the pressure at which that pain experience is produced. Both routine x-ray imaging during the injection and post-injection CT examination of the injected discs are usually performed as part of the study. There are two diagnostic objectives: (1) to evaluate radiographically the extent of disc damage on discogram and (2) to characterize the pain response (if any) on disc injection to see if it compares with the typical pain symptoms the patient has been experiencing. Criteria exist to grade the degree of disc degeneration from none (normal disc) to severe. A symptomatic degenerative disc is considered one that disperses injected contrast in an abnormal, degenerative pattern, extending to the outer margins of the annulus and at the same time reproduces the patient's lower back complaints (concordance) at a low injection pressure. Discography is not a sensitive test for radiculopathy and has no role in its confirmation. It is, rather, a confirmatory test in the workup of axial back pain and its validity is intimately tied to its indications and performance. As stated, it is the end of a diagnostic workup in a patient who has failed all reasonable conservative care and remains highly symptomatic. Its validity is enhanced (and only achieves potential meaningfulness) in the context of an MRI showing both dark discs and bright, normal discs -- both of which need testing as an internal validity measure. And the discogram needs to be performed according to contemporary diagnostic criteria -- namely, a positive response should be low pressure, concordant at equal to or greater than a VAS of 7/10 and demonstrate degenerative changes (dark disc) on MRI and the discogram with negative findings of at least one normal disc on MRI and discogram. See also Functional anesthetic discography (FAD).

While not recommended above, if a decision is made to use discography anyway, the following criteria should apply:

- o Back pain of at least 3 months duration
- o Failure of recommended conservative treatment including active physical therapy
- o An MRI demonstrating one or more degenerated discs as well as one or more normal appearing discs to allow for an internal control injection (injection of a normal disc to validate the procedure by a lack of a pain response to that injection)
- o Satisfactory results from detailed psychosocial assessment (discography in subjects with emotional and chronic pain problems has been linked to reports of significant back pain for prolonged periods after injection, and therefore should be avoided)
- o Intended as a screen for surgery, i.e., the surgeon feels that lumbar spine fusion is appropriate but is looking for this to determine if it is not indicated (although discography is not highly predictive) (Carragee, 2006) NOTE: In a situation where the selection criteria and other surgical indications for fusion are conditionally met, discography can be considered in preparation for the surgical procedure. However, all of the qualifying conditions must be met prior to proceeding to discography as discography should be viewed as a non-diagnostic but confirmatory study for selecting operative levels for the proposed surgical procedure. Discography should not be ordered for a patient who does not meet surgical criteria.
- o Briefed on potential risks and benefits from discography and surgery
- o Single level testing (with control) (Colorado, 2001)
 - o Due to high rates of positive discogram after surgery for lumbar disc herniation, this should be potential reason for non-certification

A DESCRIPTION AND THE SOURCE OF THE SCREENING CRITERIA OR OTHER CLINICAL BASIS USED TO MAKE THE DECISION:

- ACOEM- AMERICAN COLLEGE OF OCCUPATIONAL & ENVIRONMENTAL MEDICINE UM KNOWLEDGEBASE
 - AHCPR- AGENCY FOR HEALTHCARE RESEARCH & QUALITY GUIDELINES
 - DWC- DIVISION OF WORKERS COMPENSATION POLICIES OR GUIDELINES
 - EUROPEAN GUIDELINES FOR MANAGEMENT OF CHRONIC LOW BACK PAIN
 - INTERQUAL CRITERIA
 - MEDICAL JUDGEMENT, CLINICAL EXPERIENCE AND EXPERTISE IN ACCORDANCE WITH ACCEPTED MEDICAL STANDARDS
 - MERCY CENTER CONSENSUS CONFERENCE GUIDELINES
 - MILLIMAN CARE GUIDELINES
 - ODG- OFFICIAL DISABILITY GUIDELINES & TREATMENT GUIDELINES
 - PRESSLEY REED, THE MEDICAL DISABILITY ADVISOR
 - TEXAS GUIDELINES FOR CHIROPRACTIC QUALITY ASSURANCE & PRACTICE PARAMETERS
 - TEXAS TACADA GUIDELINES
 - TMF SCREENING CRITERIA MANUAL
 - PEER REVIEWED NATIONALLY ACCEPTED MEDICAL LITERATURE (PROVIDE A DESCRIPTION)
 - OTHER EVIDENCE BASED, SCIENTIFICALLY VALID, OUTCOME FOCUSED GUIDELINES (PROVIDE A DESCRIPTION)
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