

FACT SHEET

Displacement of Cervical Intervertebral Disc without Myelopathy

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- Electromyography (EMG) may be useful in distinguishing nerve root compression from a peripheral nerve problem such as carpal tunnel syndrome or ulnar nerve entrapment. However, a normal EMG does not rule out nerve root compression. As in the lumbar spine, asymptomatic herniations are frequently seen in normal volunteers. So, to be significant, disc herniations on imaging studies must correlate exactly with the nerve root deficit of symptoms on physical exam.

How is it Treated?

- Conservative treatment should always be tried first, except in cases of severe or progressive neurological compression.
- Most cervical disc herniations (an estimated 80 to 90% improve without surgery).
- Surgery has a high failure rate if individuals are not carefully selected.
- In the acute phase of a disc herniation, rest and immobilization may be recommended. If the individual is up and about, a cervical collar may be worn to provide support and limit neck motion.
- Traction may be applied intermittently. (The individual may be taught to use intermittent traction at home).
- For relief of pain and inflammation, nonsteroidal anti-inflammatory drugs (NSAID) or steroids may be given; if pain is severe, a mild narcotic may be added. If anxiety and tension are prominent, sedatives may be helpful. Muscle relaxants are frequently prescribed, however their effectiveness probably is due to their sedative action.
- Ice, heat, massage, ultrasound therapy, acupuncture and intermittent cervical traction may help relieve pain.
- Spinal manipulation should be avoided.
- As symptoms subside, activity is gradually increased, including physical therapy and/or a home exercise program to strengthen and mobilize the neck and shoulder.
- Relaxation training and biofeedback techniques may be helpful.
- Good posture and frequent changes in position help prevent fatigue.
- Prevention and maintenance measures (exercise, stress management, proper body mechanics, etc.) should be continued indefinitely.
- If there is no improvement during the first two weeks, or if pain is still disabling after a maximum of six weeks, further evaluation is necessary.
- A thorough workup should be done to rule out other causes of neck/chest arm pain. In some cases, persistent pain may be due to arthritis of the facet joints.
- Recurrent pain may be due to mechanical instability; if this cannot be managed conservatively, it is an indication for surgery (discectomy and fusion)

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- Individuals who have persistent neck pain as the predominant symptom usually do not benefit from surgery; these individuals may benefit from a pain clinic or rehabilitation program. Surgery may be considered if there is progressive or severe muscle weakness; severe arm pain with objective signs of nerve root compression, not improved by an adequate trial of conservative treatment or recurrent pain due to mechanical instability that cannot be managed conservatively (an indication for fusion).

What is the Predicted Outcome?

Most individuals recover in six months or less. Therapy and bedrest may help symptoms, but do not change outcome.

What are the Work Restrictions and Accommodations?

- Certain duties may be unsuitable for individuals with limited range-of-motion of the head and neck.

What are the Common Prescriptions?

- Anti-inflammatories
- Muscle Relaxants
- Analgesics (including mild opioids)
- Epidural Steroids
- Possible narcotics within first 1-2 weeks post surgery.

*A safe and timely return to work benefits the patient and his or her family by enhancing recovery and reducing disability.”
Canadian Medical Association*