

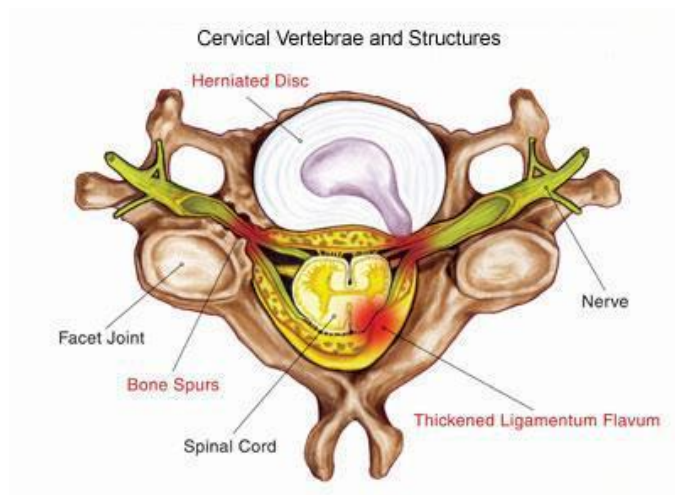
## Cervical Nerve Root Steroid Injection (CNRSI)

### What is an epidural space?

It is a space that surrounds the spinal cord and nerve roots. Furthermore, the back spine is separated into four regions: cervical (neck), thoracic (mid back), lumbar (low back), and caudal (sacral area). Therefore, the cervical nerve root injection defines the nerve root in the neck region.

### What are the indications of CNRSI injection?

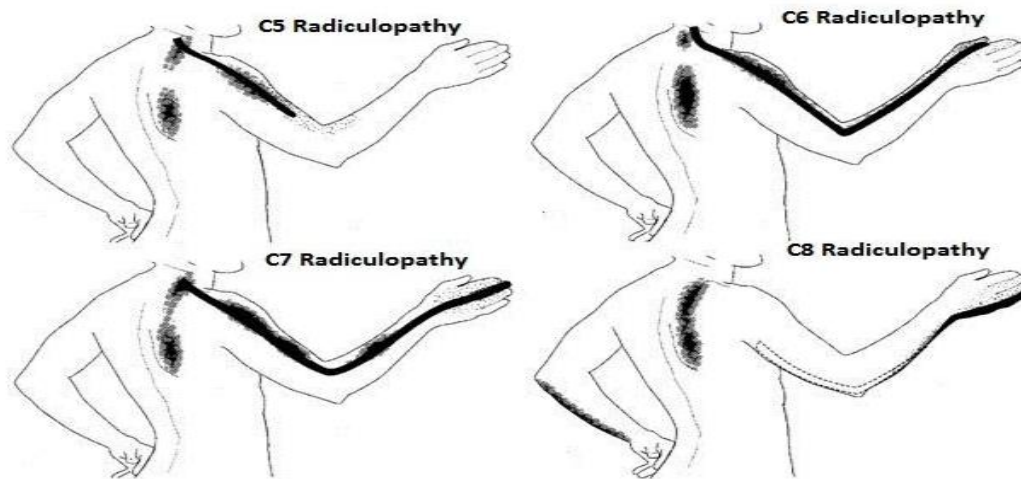
Among many indications the listed are the main indications: neck pain, headaches, arm pain, herniated disc, degenerated disc disease (DDD), radiculopathy, bone spurs, thicken ligamentum flavum, upper extremity neuropathy, chronic regional pain syndrome and spinal stenosis.



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### How does CNRSI bring pain relief?

The pain is produced due to inflammation of the spinal nerve roots, which may be experienced as pins/needle sensation, shooting /stabbing pain down the arm. With the cervical epidural injection, steroids surround the cervical spinal nerves, which help decrease the nerve root inflammation and irritation. Therefore, can help decrease the neck and arm pain symptoms.



### What are risks for the CNRSI injection?

Among many, here are few listed rare side effects: increased pain, headache, infection, bleeding, nerve damage, weakness, increased blood sugars and neck pain.

### How is the CNRSI performed?

After sterile preparation of the neck region, the injection site is localized under X-ray. Following the local anesthetic applied to the injection site, which can help decrease the injection site pain, the needle is guided toward the nerve root with the help of X-ray. After the space is confirmed, the steroid medication is injected, and the needle is taken out at the end of the procedure.

### What to expect after the procedure?

This is an **outpatient procedure**. Patients are monitored in the recovery room after the procedure. Patient is educated that pain relief may be achieved to its full potential over the 1-2 week period. Patient may experience some localized neck pain at the injection site, which may be minimized by the previously applied local anesthetic. Patients are discharged from the recovery room once they have the discharge criteria.

### How long the relief from the CNRSI would last for?

It varies from patient to patient. Usually, the pain relief can last for 8 weeks or more, and may require repeat the nerve root injections if necessary.

**Please tell your pain physician if you are taking any blood thinners. For example: Coumadin, Plavix, Heparin, Lovenox and etc. The blood thinners need to be stopped before the interventional procedure, and the time frame will be prescribed by your pain physician.**