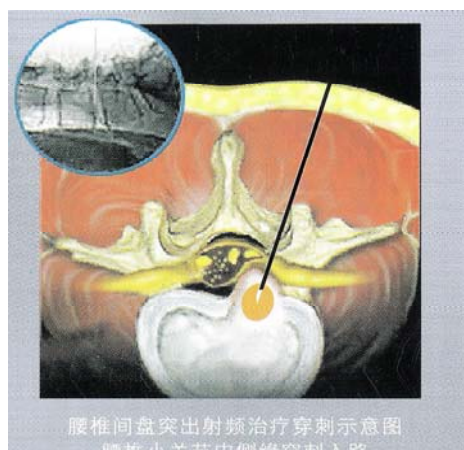


## The clinical application for R-2000B Radiofrequency Lesion Generator

The R-2000B Radiofrequency Lesion Generator, which is a medical device for minimal invasive therapy, has the clinical applications in three fields: 1) the treatment for the lumbar and leg pain that is caused by prolapse of lumbar intervertebral disk by using the principle of target and thermo coagulation; 2) the treatment for various neuralgias such as trigeminal neuralgia, shingles neuralgia and cancer pain by using the principle of nerve block; 3) the treatment for neurosurgery functional diseases, such as Parkinson's Disease and Torsion Dystonia, by the combination of the stereotaxic technology and thalamotomy and/or pallidotomy.

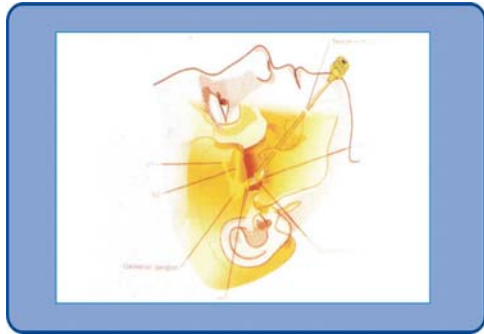


1. The treatment for prolapse of lumbar intervertebral disk by using radiofrequency target and thermo coagulation

According to medical documentary statistics, the morbidity of patient with neck-waist-pain is 15% of the crowd, and the cause of the most patients is due to prolapse of lumbar intervertebral disk. The treatment of radiofrequency target and thermo coagulation is the method that uses the 0.7mm electrode needle puncturing into the prolapse of lumbar intervertebral disk part to proceed the radiofrequency heating, and make the nucleus solid and denaturalized with smaller size, and have an obvious separation of displacement from the nerve roots to remove the pressure on nerve, thereby the pain symptoms will be relieved quickly. The Radiofrequency Lesion Generator is a combination of minimal invasive therapy and accurate therapy.

The Radiofrequency Lesion Generator is enabled with impedance and electrical stimulation, not only can it identify the puncture position by measuring the impedance level of needlepoint tissue, but also can estimate the distance between the needlepoint and nerve by using electrical stimulation to ensure that thermo coagulation will do no harm to nerve. The timing and temperature of radiofrequency thermo coagulation can be accurately controlled, allowing the treatment scope under strict control.

## 2 . The radiofrequency thermo coagulation treatment for neuralgia



The radiofrequency thermo coagulation treatment for neuralgia is a classic therapy with 30 years of clinical applications, which uses a electrode needle puncturing into the painful nerve part to test the impedance, then determine the location of thalamotomy by the impedance level, then test the electrical stimulation and judge the accurateness of nucleus by electrical stimulation symptom, and finally proceed radiofrequency heating to make nerve tissue solid and denaturalized, and kill the conduction ability by cutting down the pathway of pain nerve conduction, thus eliminate the pain feeling of patients.

## 3 . The lesions of intracranial nucleus



Neurosurgery functional diseases (such as Parkinson's disease and Torsion Dystonia) are caused by the lesions of intracranial nucleus. The radiofrequency thermo coagulation treatment is to put the thermo coagulation needle around the nucleus, then determine the location of nucleus by the impedance level, and judge the accurateness of nucleus by the electrical stimulation function, then thermo coagulate the nucleus to make it solid and denaturalized, and kill the biological activity to eliminate the clinical symptoms caused by the damaged nucleus, thus the life quality of patients will be improved.