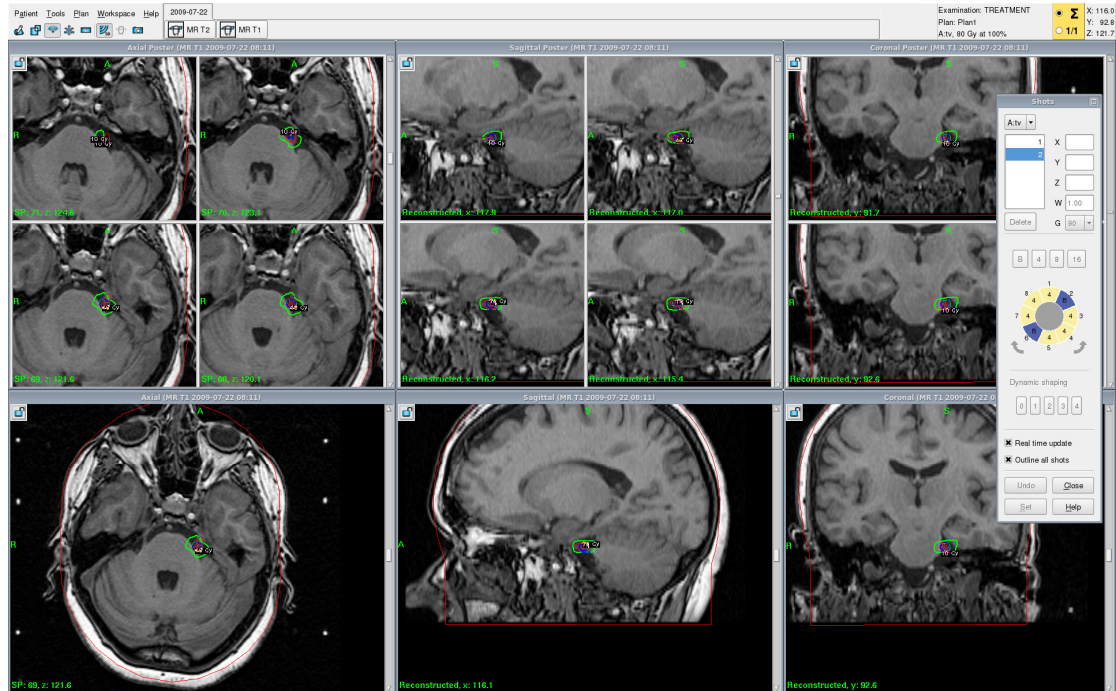


Case Study



**Patient** 71 year old female

**Diagnosis** Left sided Trigeminal Neuralgia

**Treatment** 1 shot treatment of 80.0Gy to 100%

**Patient History**

Patient is a 71 year old female with a 10 year history of left-sided facial pain fluctuating in severity. Initial attempts to control the pain using medication failed due to an allergic reaction to prescribed drugs. The patient was later discussed at a Multi-Disciplinary Team (MDT) meeting where surgical intervention was ruled out due to pre-existing medical conditions. The patient was finally referred for Stereotactic Radiosurgery where the procedure was discussed at length with her before scheduling for treatment.

## Treatment

A treatment team comprising of a Neurosurgeon, Radiologist, Medical Physicist, Radiotherapists and Nursing staff were assembled and the patient was treated in July 2009. The procedure was again explained to the patient, with benefits discussed and potential side-effects outlined.

The trigeminal nerve was identified using MRI scans taken the hour before treatment, and a plan was created accordingly. The plan involved delivering a treatment dose of 80.0Gy to 100% of the identified target.

## Conclusion

The simple non-invasive nature of the treatment was a relief to the patient who had practically given up hope of achieving symptom relief. The whole process from frame fixation, imaging, conformal treatment planning, radiosurgery and frame removal was complete within half a day, with the patient discharged later that day. At 12 months a follow up appointment was conducted to assess the success of the procedure. Her pain is now under control for the first time in 10 years and she is side-effect free.