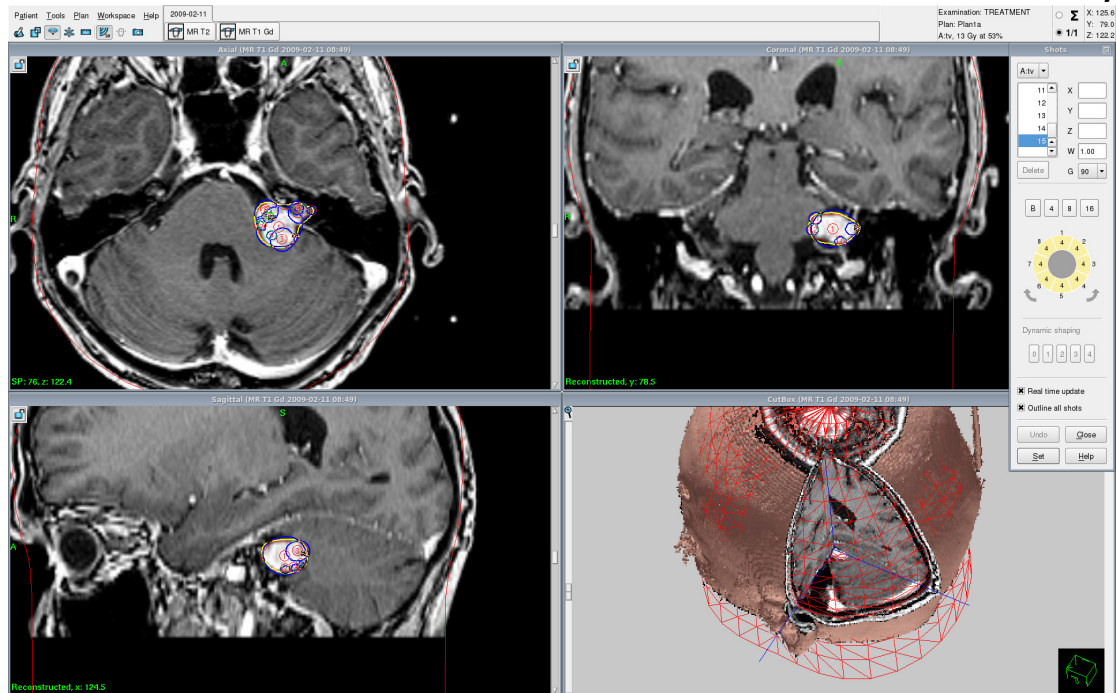


Case Study



Patient 70 year old male

Diagnosis Left-sided acoustic neuroma

Treatment 14 shots, 13.0Gy @ 53%

Patient History

Patient initially presented in 1997 after noticing a disturbance in his balance. Investigation via MRI scanning revealed a left-sided acoustic neuroma. The diagnosis was discussed with the patient, and it was felt that with the slow-growing nature of the acoustic neuroma, a watch and wait policy would be best adopted. The patient was happy with this and continued to lead a normal active life, undergoing yearly scans to measure and compare the tumour. Upon reviewing the patients scan in 2009, some growth in tumour size was noted. This was discussed with the patient and the decision to undergo Gamma Knife Radiosurgery was decided.

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Treatment

To facilitate the patients treatment, a team comprising of a Neurosurgeon, Radiologist, Medical Physicist, Radiotherapists and a nurse were assembled. The patient underwent the procedure February 2009 and was discharged later same day.

The target region was identified using MRI scans taken earlier that day and a treatment plan devised. 13.0Gy was prescribed @ 53% and delivered.

Conclusion

Since the treatment was delivered the patient has undergone two routine annual scans to monitor the success of the treatment. It was noted by the Consultant Neurosurgeon that results were as expected and there had been a small degree of tumour shrinkage. It was also pointed out to the patient that in similar case studies it is very rare for there to be subsequent tumour growth.