

Masterclass on Stereotactic Radiosurgery (SRS) of Brain and Spine Tumors

30th - 31st August, 2019

Two Days Program Schedule

Session 1: Benign Brain Tumors

1. SRS/SRT: **Radiobiology**.
2. SRS/SRT **Physics**: Concept of Dose prescription, Isodose and plan evaluation. Impact of Machine and treatment planing on Dosimetric and clinical outcome.
3. **Tolerance** of critical structures of Brain/spine (Single and multisession SRS)
4. **Immobilization/Simulation** techniques in SRS/SRT of Brain/spine tumors.
5. **Imaging**: Acquisition and tumor characteristics (MR/CT/DSA/Angio).

Disease specific discussion: Important Sign & Symptoms; Treatment options (surgical and Nonsurgical) and when to choose SRS/SRT versus Surgical; Baseline investigations before SRS/SRT; Target delineation; Dose prescription/constraints & plan evaluation; Toxicity evaluation; Summary of Guidelines/Evidence.

6. **AVM**
7. **Trigeminal Neuralgia**
8. **Pitutary adenoma.**
9. **Schwannoma.**
10. **Meningioma and skull base tumors.**
11. **Functional Radiosurgery.**

Session 2: Brain Metastasis / Malignant primary brain tumors

1. Sx vs SRS in Brain metastasis: when not to take for SRS.
2. SRS y Vs Whole Brain RT+ SIB/SRS
3. SRS: Dose prescription, plan evaluation and followup.
4. Role of SRS in multiple metastasis.
5. Role of SRS in recurrent Brain tumour.

6. SRS after surgery; SRS after previous WBRT
7. Radionecrosis vs Tumor progression: Clinical and imaging.

Session 3: Spine SRS/SBRT tumos/metastasis

1. **Spine metastasis:** imaging and treatment options. Severity and stability of spine; when to do SRS Vs Surgical Intervention; Delineation in Radical , Post op and Re-Irradiation setting. Dose prescription/constraints & plan evaluation; Toxicity evaluation; Summary of Guidelines/Evidence.
2. Role of SRS in benign spinal tumour.

Debates

Hand-on sessions