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The SRS apparatus in the neurosurgical pathologies

Alexandrina Nikova
Democritus University of Thrace, Greece

Stereotactic radiosurgery (SRS) is a precise modern approach for the treatment of different intracranial pathologies, including tumors, metastases and arteriovenous malformations. Until now, however, the result was considered to be the same for the three types of machines – GammaKnife, LINAC and CyberKnife. For this reason we reviewed the aforementioned pathologies and analyzed them with different statistical programs. The results were final – the three types of machines are not the same. Other factors, however, play a major role to the final outcome. And after analyzing each of the latter pathologies, we found that there are a few considerations that should be reviewed before proceeding with SRS treatment.

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2. Nikova AS, Ganchev D, Birbilis Th, Kyriakides Th, Vrondis C. Radiosurgery and embolization - possible new considerations for the management of the brain arteriovenous malformations. AWAITING REVIEWER RESPONSE

3. Ganchev D, Nikova A, Birbilis Th. Stereotactic radiosurgery for pituitary adenoma: does LINAC make the difference? Awaiting Reviewer Response

Biography

Alexandrina Nikova is a last year student at Democritus University of Thrace, Alexadnroupolis, Greece. She is also a member of the neurosurgical lab faculty of the university and assistant in the operations for 2,5 years. She was a volunteer in the neurological department (Montana, Bulgaria 2016) and a hospitalization guest at the department of neurosurgery (Zurich, Switzerland 2017). Currently she is chosen to be a mentor of "Fundamental neuroscience for neuroimaging" of Johns Hopkins. Her recent researches include the field of neuro-oncology, neurosurgery, traumatic brain injuries, forensic science, vascular neurosurgery and pediatric neurosurgery.

nikovaalex@gmail.com

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