Stereotactic Radiosurgery (SRS) and Stereotactic Body Radiotherapy (SBRT) Training Course

APRIL 19, 2012, ANTALYA, TURKEY
Objectives

- Concept of SRS and SBRT
- Indications
- Complications
- Treatment systems
Goals

- Awareness
- Knowledge
- Multidisciplinary Approach
- Effective Running
- Spirit of Research
- Inspiration
Radiosurgery in Turkey

TREATMENT SYSTEMS
<table>
<thead>
<tr>
<th>Treatment Systems</th>
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<tbody>
<tr>
<td><strong>Total 18 treatment systems</strong></td>
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<tr>
<td><strong>Gamma knife</strong></td>
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<tr>
<td>- Gamma knife - B</td>
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<tr>
<td>- Gamma knife - C</td>
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<tr>
<td>- Gamma knife - 4C</td>
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<tr>
<td><strong>Cyberknife</strong></td>
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<tr>
<td><strong>Novalis</strong></td>
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<tr>
<td><strong>Truebeam TX</strong></td>
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<tr>
<td><strong>Synergy</strong></td>
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</tbody>
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Radiosurgery in Turkey

CENTERS AND NUMBERS
Marmara University

Gamma knife total 994 pts
Hacettepe University

Cyberknife total 360 = 216 cranial + 144 extracranial
Gulhane Military School of Medicine

Synergy total pts. 232
Gazi University

Gamma knife total 629 pts

- Schwannoma 23%
- Metastasis 13%
- AVM 17%
- Other 7%
- Pituitary 11%
- Cavernoma 5%
- Glial Tumors 2%
- Trigeminal Neuralgia 4%
- Meningioma 17%
- Craniopharyngioma 1%
Acıbadem Hospitals, Kozyatağı

Gamma knife Total 815 pts

- Metastasis 18%
- Pituitary 12%
- Other 17%
- AVM 11%
- Schwannoma 16%
- Meningioma 26%
Acıbadem Hospitals, Maslak

Cyberknife 522 pts
Acıbadem Hospitals, Maslak

Truebeam total  78 pts.

- Lung: 74%
- Paraspinal: 17%
- Bone: 9%
İstanbul University

Cyberknife total 243 pts

- metastasis: 58%
- lung: 15%
- pituitary: 6%
- eye-lid: 3%
- AVM: 1%
- glial tumor: 5%
- liver: 2%
- adrenal: 1%
- h&n: 2%
- spine: 6%
Ankara Oncology Hospital

Cyberknife total 678 pts.

- brain met.: 54%
- spinal met.: 4%
- primary brain: 28%
- Uveal Melanoma: 3%
- cervical CA: 1%
- prostate: 1%
- pancreas: 0%
- lung prim.: 3%
- lung met.: 1%
- liver: 0%
İzmir Tepecik Hospital

Cyberknife total 255 (53 extracranial + 202 cranial)
İzmir Tepecik Hospital

Cyberknife total 202 pts

- Schwannoma: 25%
- Pituitary: 19%
- Cavernoma: 8%
- Trigeminal Neurinoma: 1%
- Brain Tumor: 3%
- Lacrimal Gland: 1%
- Metastasis: 43%
Neolife Cancer Center

- Lung: 15%
- Adrenal: 8%
- Spinal: 21%
- Liver: 3%
- Cranial: 53%

Truebeam TX total 95 pts.
Baskent University, Adana

Gamma knife total 225 pts June 2011-December 2011
Lecturers
John R. Adler, Jr.

- Professor in Radiation Oncology and Dorothy and T.K. Chan Endowed Professor in Neurosurgery at Stanford University
- Board certified in neurological surgery, American Board of Neurological Surgery
- Undergraduate, Graduate and Neurosurgical Residency at Harvard Medical School
- Fellowship in Karolinska Institute, Sweden
- Founder, member of the Board of Directors, CEO of Accuray
- Holds 7 patents
- Interests in RADIOSURGERY
- More than 150 articles, book chapters, books and invited lectures
John C. Flickinger

- Professor of radiation oncology and neurological surgery at the University of Pittsburgh School of Medicine
- Received an undergraduate degree at the University of Pittsburgh, and received a medical degree at The University of Chicago Pritzker School of Medicine
- Completed a residency in radiation oncology at Harvard Medical School at Massachusetts General Hospital in Boston.
- Holds an interest in spine tumors, brain tumors, metastatic diseases, effects of radiation on normal tissue, and the mathematical modeling of radiation response.
- Published more than 400 articles incl. most cited article in radiosurgery field, many book chapters and books
Antonio De Salles

- Professor at Departments of Neurosurgery and Radiation Oncology, UCLA School of Medicine
- Head Stereotaxic Surgery Section and Co-Director Radiosurgery Program, UCLA School of Medicine
- Graduate and Residency in Neurological Surgery at Universidade Federal do Goias, Brasil
- Fellowship in Stereotactic Radiosurgery, Mass General Hospital
- Interests in Movement Disorders, Rhizotomy Radiofrequency, Stereotactic Biopsy, Stereotactic Radiosurgery, Trigeminal Neuralgia
- Published more than 100 articles and numerous books
- Recently published: Why Fly Over the Cuckoo’s Nest? Psychosurgery in my Brain Please!
Joost Nuyttens

- Received an undergraduate and medical degree at the University of Ghent in Belgium
- Completed a residency in radiation oncology at University of Ghent and Medical University of South Carolina
- Holds an interest in stereotactic body radiotherapy
- Published more than 50 articles
- Works at the Department of Radiation Oncology, Erasmus MC-Daniel Den Hoed Cancer Center in Holland
Eric Lartigau

- Professor of radiation oncology in Academic Radiotherapy Department at Centre Oscar Lambret and Lille University in France
- Holds an interest in stereotactic body radiotherapy
- Published more than 150 articles, and many book chapters
Nicholas Van As

- Qualified in medicine in South Africa and completed specialist training in clinical oncology at Guy’s and St Thomas’ Hospital, The Royal Marsden and The Institute of Cancer Research
- Specializes in urological and gastrointestinal cancers
- Research interests in risk prediction in early prostate cancer, functional MRI, and image-guided and hypofractionated radiotherapy
- Published numerous papers and delivered presentations at international meetings
Acknowledgements

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  - Serenas