Optimization of Brain and Head & Neck Radiotherapy Daniëlle Eekers



Propositions pertaining to the thesis:

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- 1. Particle therapy significantly reduces dose to contralateral organs at risk (OARs). (*Chapter 2 & 3*)
- 2. The posterior cerebellum is an organ at risk worth sparing. *(Chapter 4)*
- 3. Organs at risk have known anatomical boundaries at dissection; delineating these organs is a matter of consensus between experts in the field of neuro-oncology. *(Chapter 5)*
- 4. The EPTN central nervous system (CNS) Delineation Atlas and OAR Tolerance Table facilitate future CNS treatment comparison of novel radiation techniques as needed in the Dutch model-based approach. (*Chapter 5 & 6*)
- 5. The CNS Delineation Atlas is a solid base for an international CNS auto-contouring tool. *(Chapter 9)*
- 6. Radiotherapy is a non-invasive alternative to drug-resistant, nonneoplastic focal epilepsy in adults not eligible for resective surgery. *(Chapter 7)*
- 7. External beam radiotherapy is the ultimate, non-invasive, imagedriven intervention, requiring cooperation and integration between radiotherapy and radiology for optimum neurooncological therapy.
- 8. If you want to go fast, go alone. If you want to go far, go together. *(African proverb)*



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