Optimization of Brain and Head & Neck Radiotherapy

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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, non-neoplastic focal epilepsy in adults not eligible for resective surgery. (*Chapter 7*)

7. External beam radiotherapy is the ultimate, non-invasive, image-driven intervention, requiring cooperation and integration between radiotherapy and radiology for optimum neuro-oncological therapy.

8. If you want to go fast, go alone. If you want to go far, go together. (*African proverb*)

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