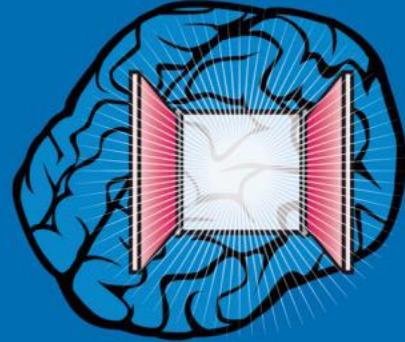


Publieksdag Hersentumoren

Zaterdag 21 november 2020
Online Evenement



Publieksdag
Hersentumoren



Radiotherapie met protonen

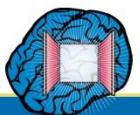
Dr. Jaap Zindler, radiotherapeut-oncoloog

Haaglanden MC Den Haag & HollandPTC Delft

In samenwerking met:



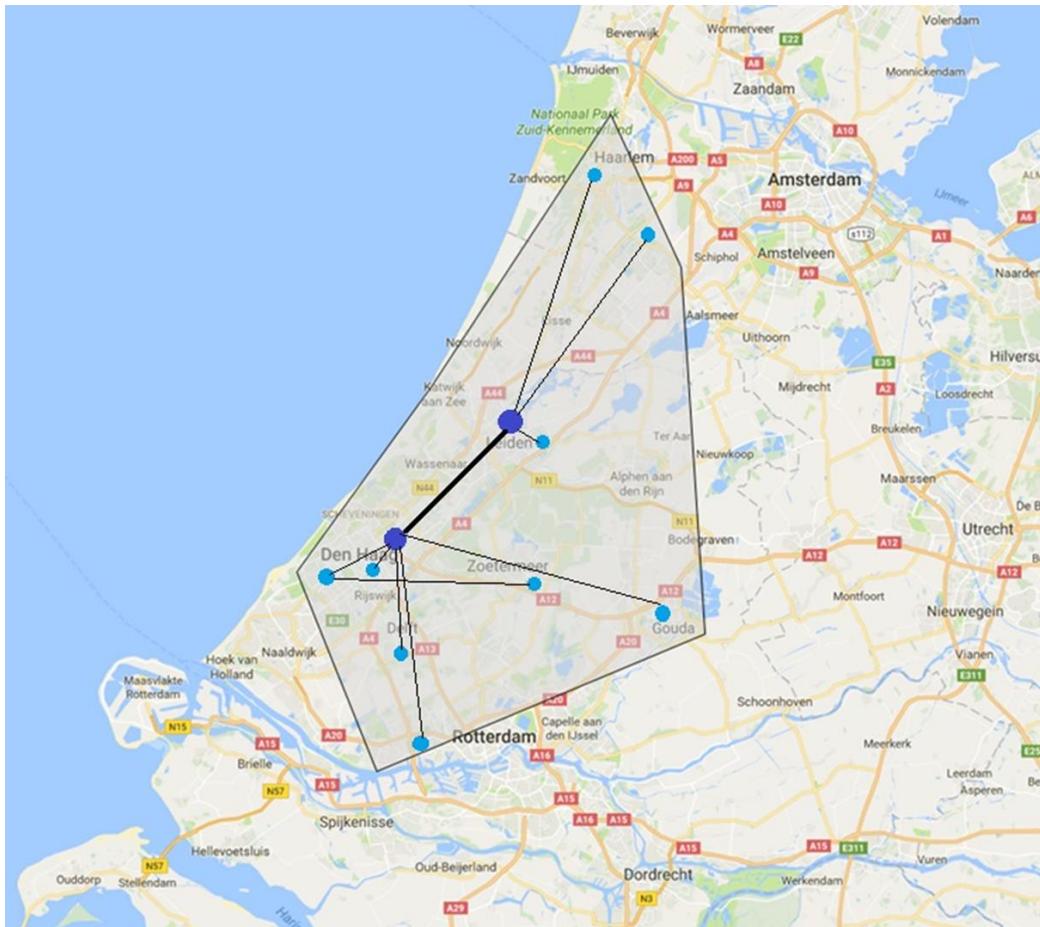
Afdeling radiotherapie Haaglanden MC Leidschendam



Publieksdag
Hersentumoren



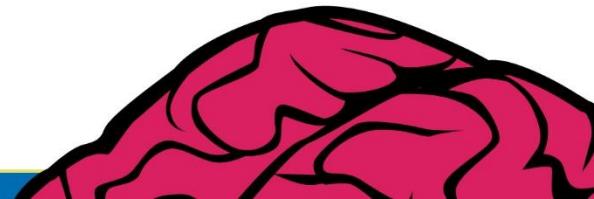
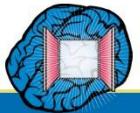
UKC neuro-oncologie HMC – LUMC - HAGA



- Ism LUMC en HAGA
- NCH, NEU, ONC, PATH, RAD, RT
- gliomen, hersenmetastasen, brughoektumoren, chordomen,
- zeldzame hersentumoren
- gliomen in HMC, schedelbasistumoren in Lumc

In Haaglanden MC

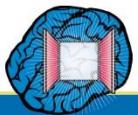
- >800 neuro-oncologie patienten onder behandeling
- >190 glioom operaties per jaar
- >850 patient op MDO neuro per jaar
- >130 patienten per jaar met radiotherapie voor hersentumoren



Persoonlijke afdeling met moderne apparatuur



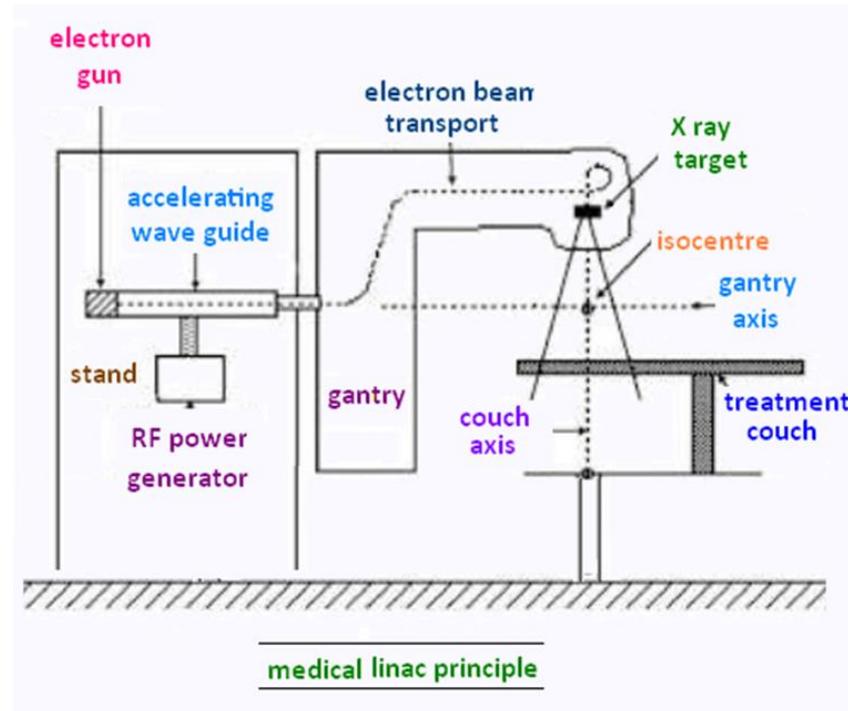
Fotonen (Arc therapie)
Radiochirurgie
Brachytherapie
Intra-operatieve RT
Orthovolt
Protonentherapie ism HPTC
Alle subsites



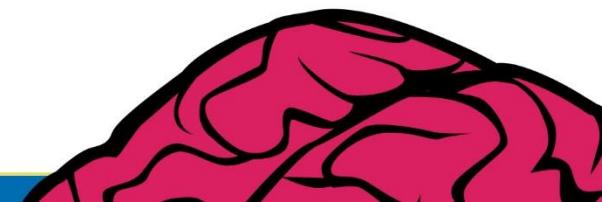
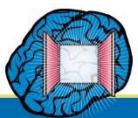
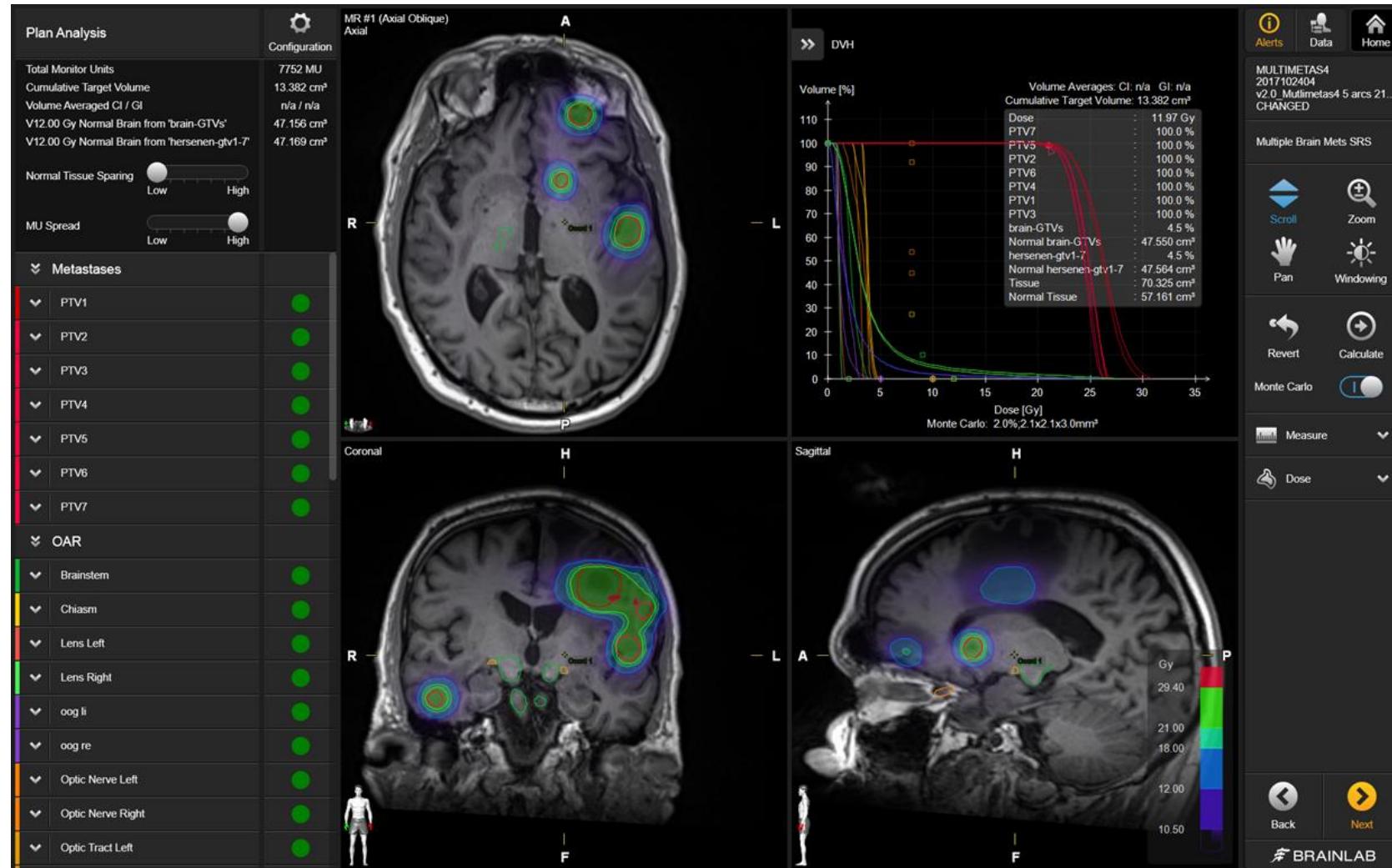
Publieksdag
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Bestralingstoestel fotonen

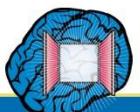
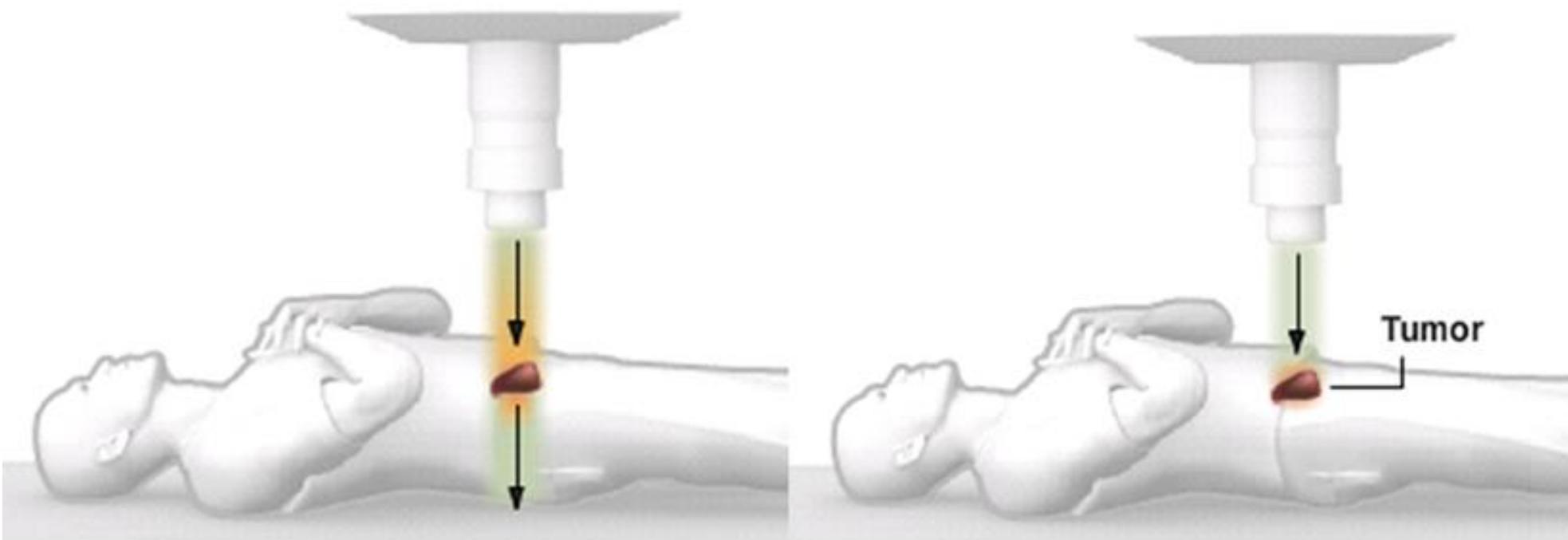


Complexe bestralingstechnieken



Fotonentherapie

Protonentherapie



Publieksdag
Hersentumoren



Protonentherapie *versus* fotonentherapie

Protonen vs fotonen

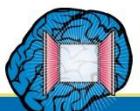
Minder lage dosisbad

Minder inductie secundaire tumoren

Verwachting: 5% (1 op 20 patiënten) baat bij protonentherapie



Hersentumoren: behoud aandacht, concentratie, geheugen en kwaliteit van leven



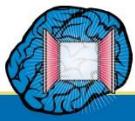
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Hersentumoren



Protonentherapie in Holland Proton Therapy Center Delft



de jong gortemaker algra



Keuze fotonen *versus* protonen

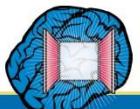
Landelijk indicatie protocol protonentherapie (LIP)

Levensverwachting > 10 jaar

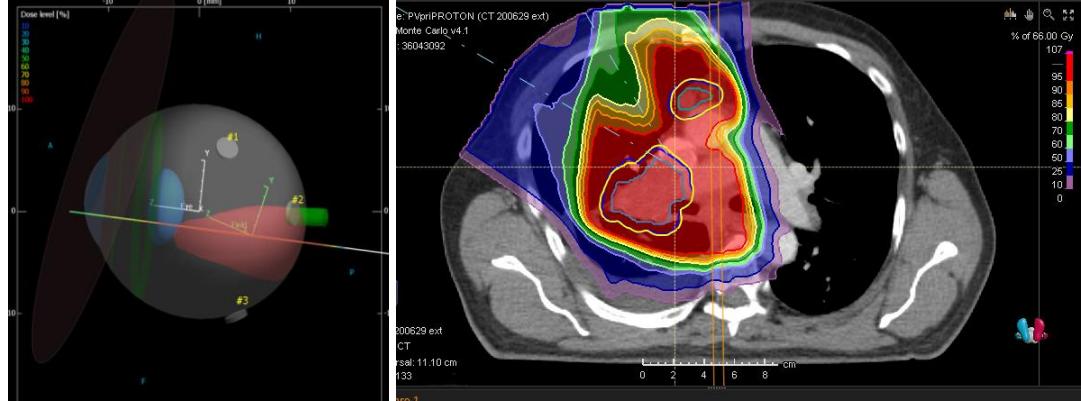
>5% verlaging hersendosis



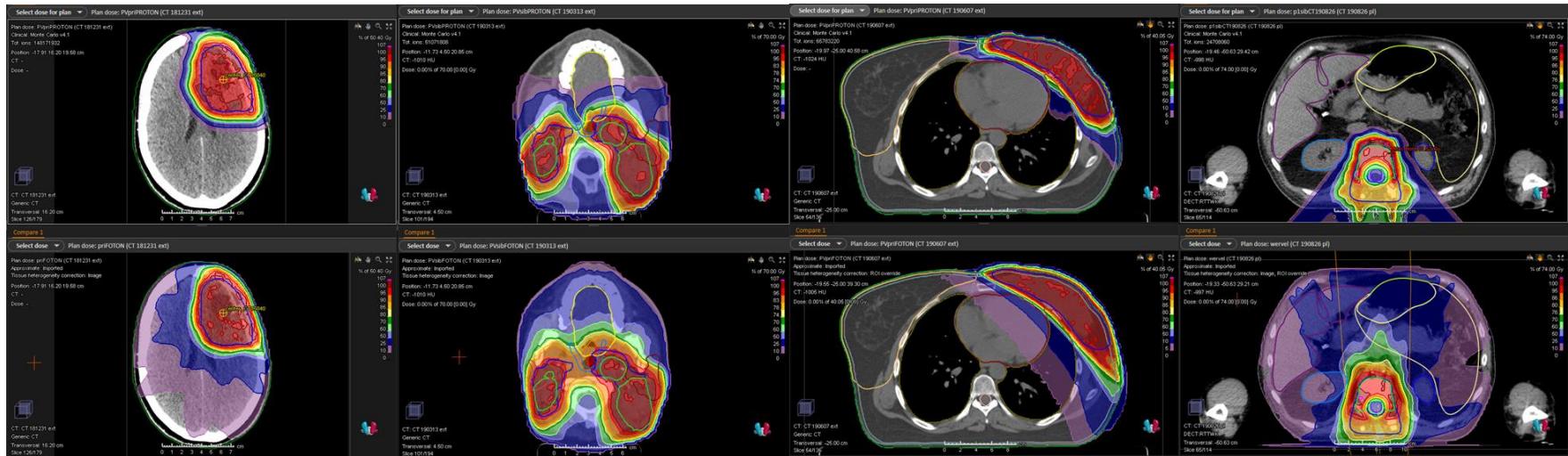
→ Indien indicatie: **patiënt** ism verwijzend radiotherapeut kiest



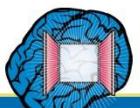
Protonen behandelruimte



In NL > 1000 patiënten met protonen
Bestraald in 3 jaar tijd



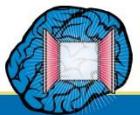
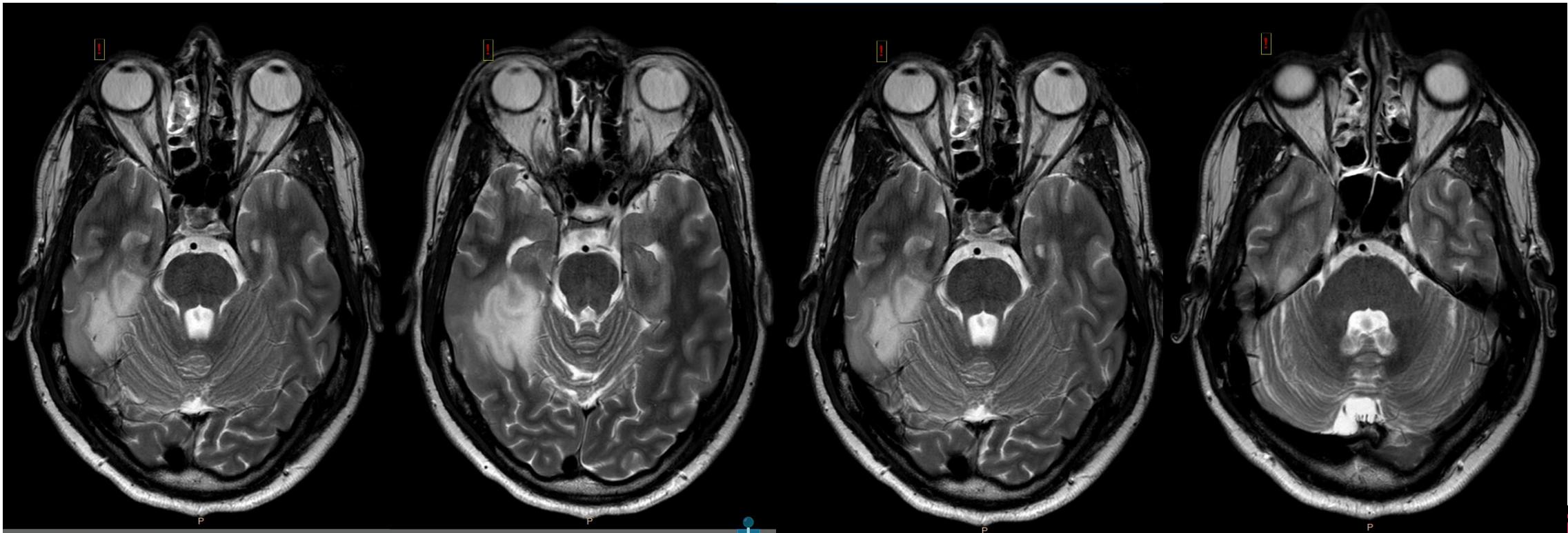
Holland PTC Delft
>150 hersentumoren/chordomen behandeld
Hersen-, hoofdhals-, borst-, wervelkolom-,
long- en oogtumoren



Publieksdag
Hersentumoren



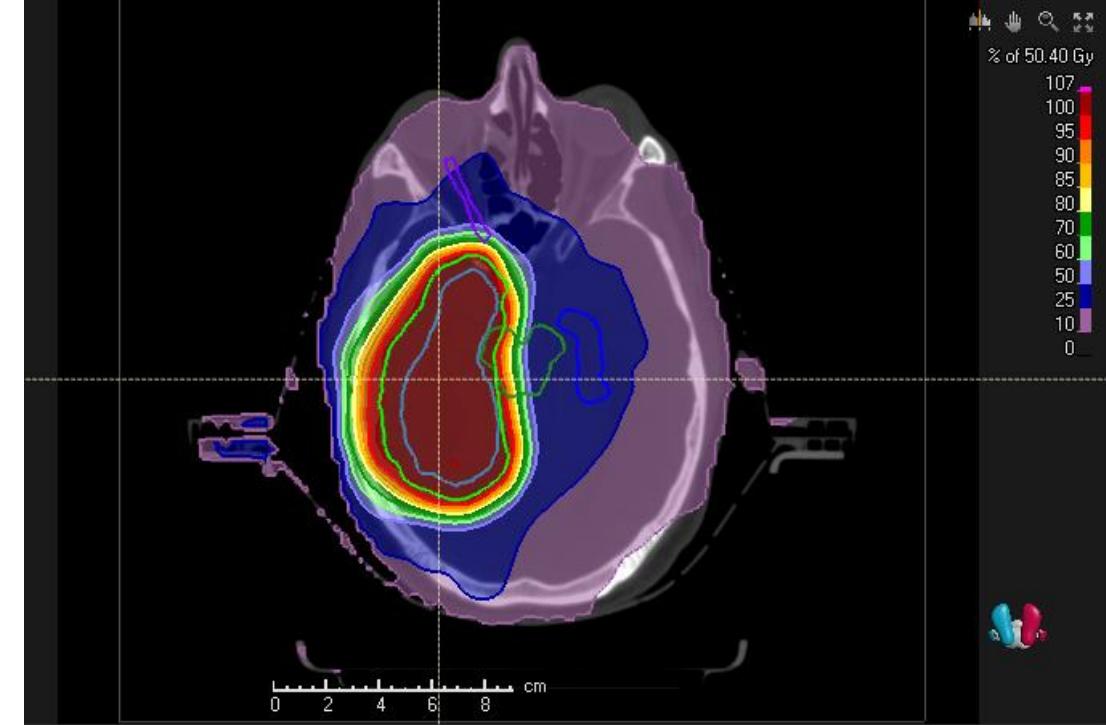
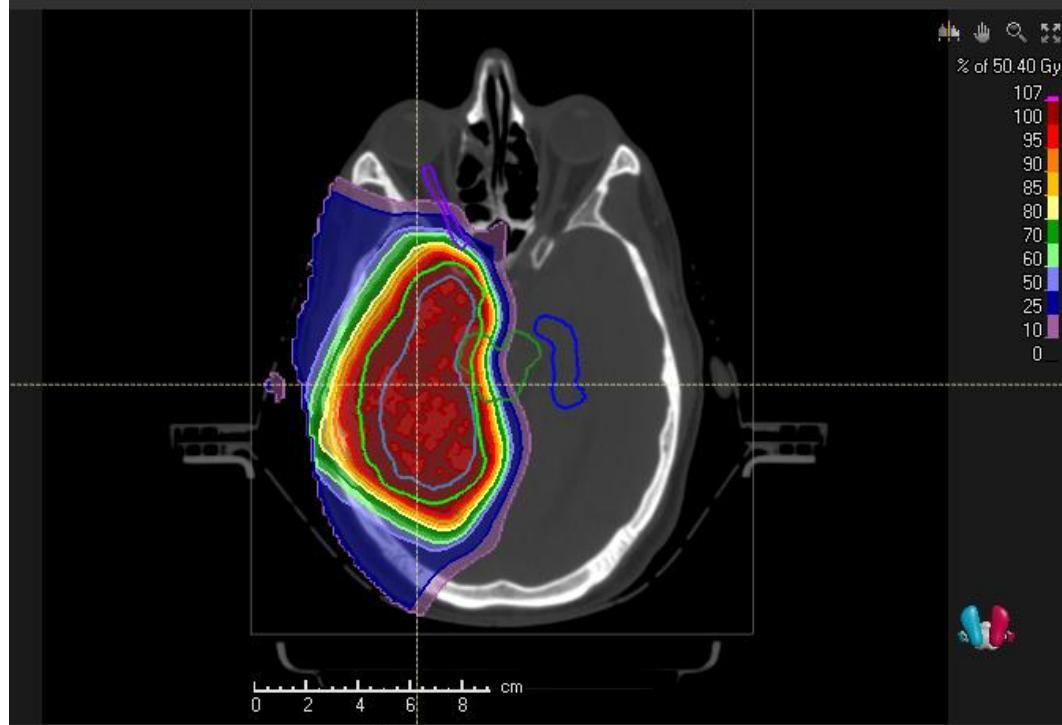
Laaggradige hersentumor



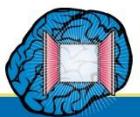
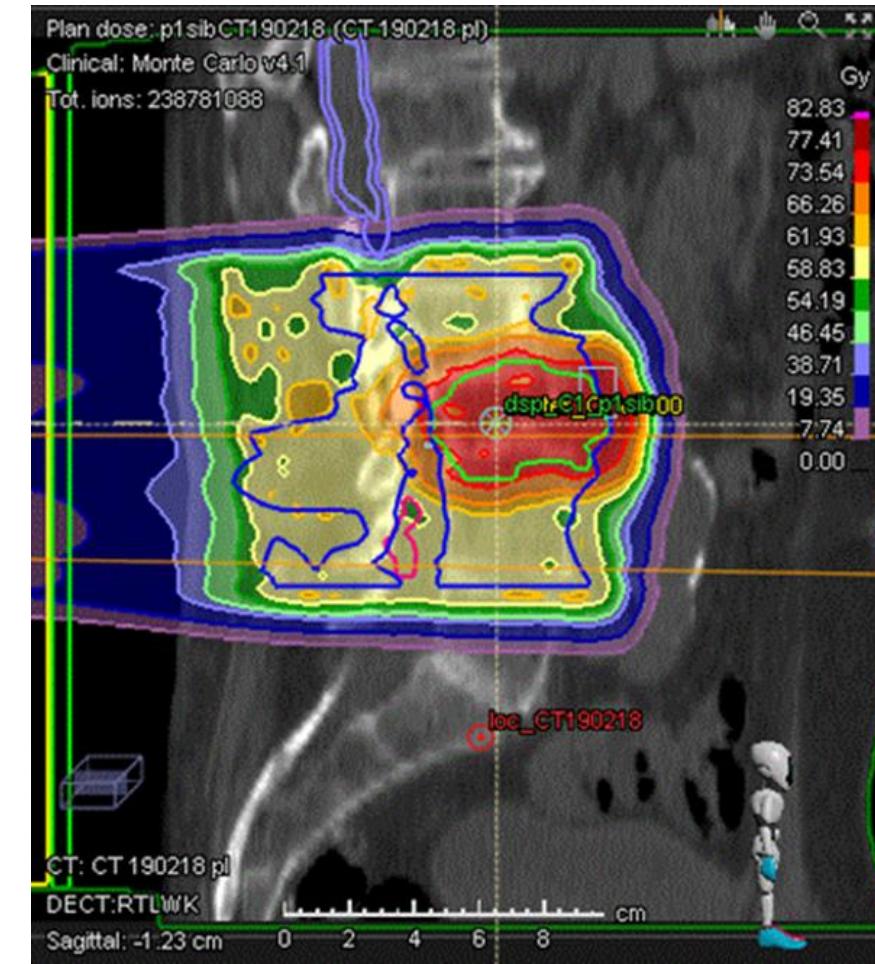
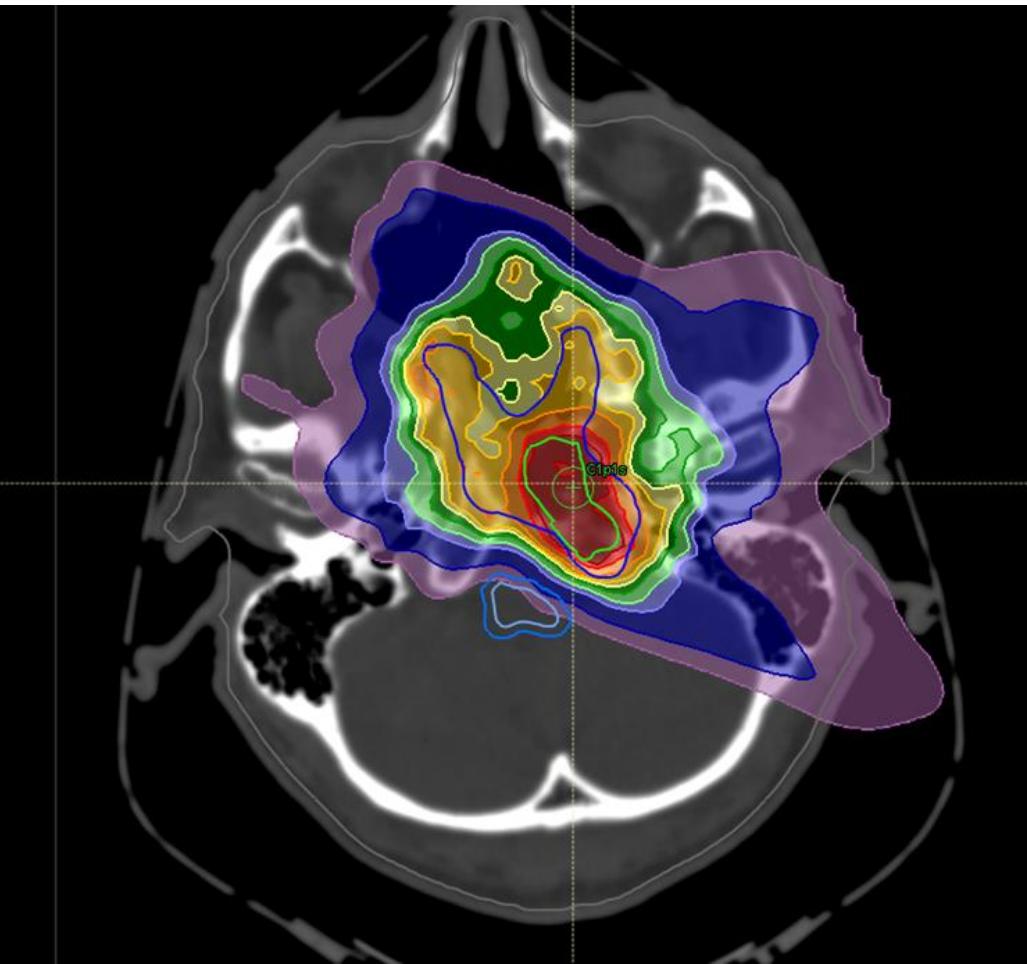
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Laaggradig glioom Protonentherapie versus fotonentherapie



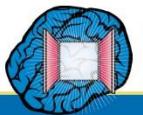
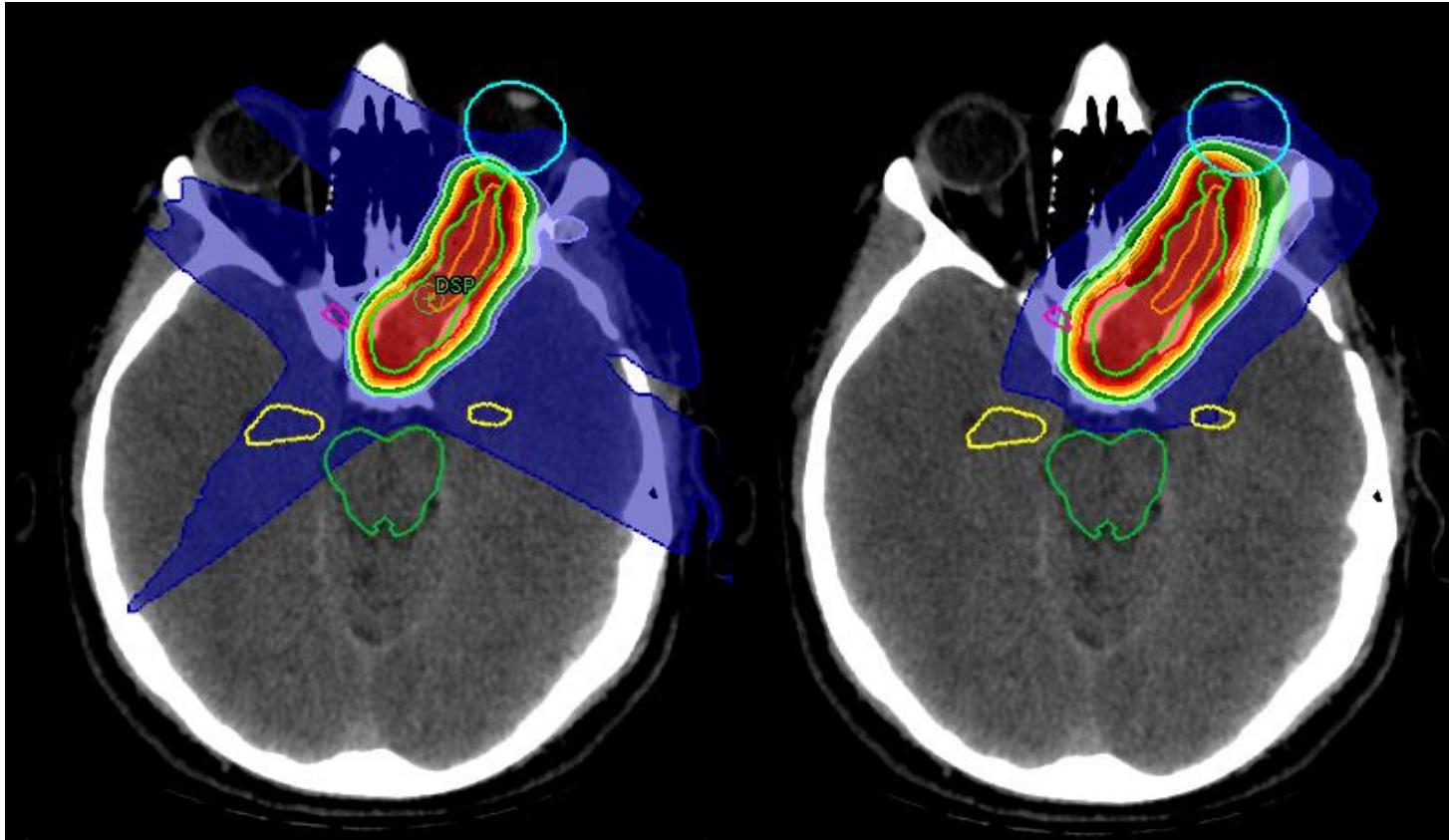
Chordomen standaardindicatie: LUMC



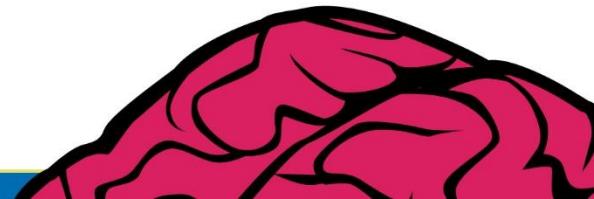
Publieksdag
Hersentumoren



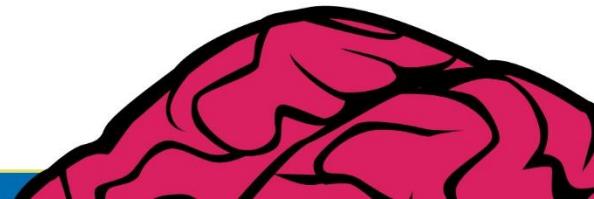
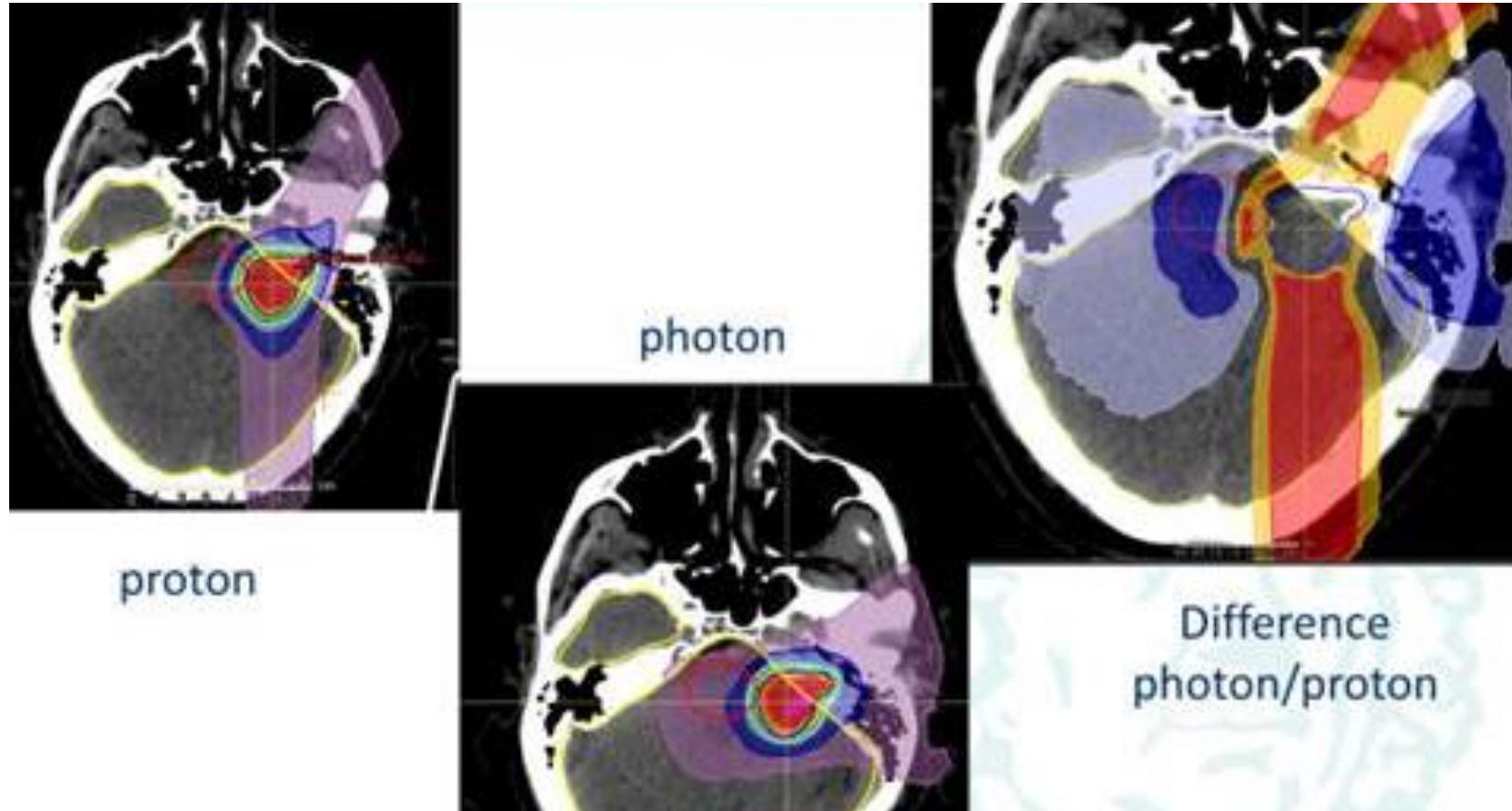
Meningeomen: soms wel, soms niet



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Hersentumoren



Brughoektumoren: meestal niet



Protonentherapie *versus* fotonentherapie



Protonen

neutraal

fotonen

Laaggradig gliomen

Glioblastomen

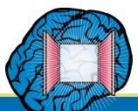


Hersenmetastasen

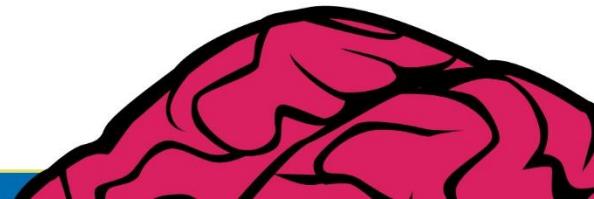
Brughoektumoren

Hypofysetumoren

Meningeomen



Publieksdag
Hersentumoren



Meer onderzoek nodig! RIGEL studie (J. Jaspers/S. Mendez-Romero)

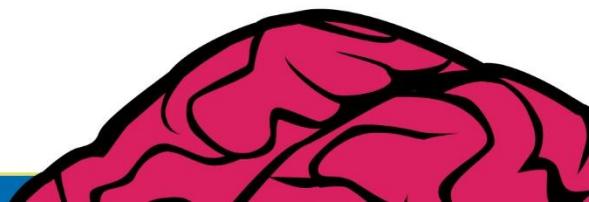


Diffuus gliomen (graad 2 en 3)



Kwaliteit van leven

MRI veranderingen tijdens follow-up





Dr. F. Lagerwaard
Prof. M. Klein



Prof. F. Vos



Dr. L. Dirven
Dr. I. Coremans
Prof. M. van Osch

■ Radiotherapy
■ Physics
■ Neuro-oncology
■ Neuropsychology
■ Radiology



Dr. J. Zindler
Prof. M. Taphoorn



Dr. C. Nijhoff
Dr. C. van der Vos
Prof. M. van Vulpen



Dr. Mendez Romero
Prof. R. Nout
Prof. M. van den Bent
Prof. M. Smits
Prof. Mischa Hoogeman
Dr. D. Satoer
Drs. J. Jaspers

■ Promotor
■ Supervisor

This activity is partly funded by the Surcharge for Top Consortia for Knowledge and Innovation (TKIs) from the Ministry of Economic Affairs and Climate, HollandPTC consortium, and Varian Medical Systems

Conclusie

- Protonentherapie is een behandeloptie
- Doel: minder bijwerkingen in deel van patiënten
- Ingebed in zorg in alle radiotherapie instituten
- Meer onderzoek nodig
- HollandPTC (Delft), UMC Groningen en MAASTRO Clinic Maastricht



Dankwoord

- Patiënten
- Multidisciplinaire neuro-oncologie team HMC-Lumc-HAGA
- HollandPTC, Haaglanden MC, Lumc, Erasmus MC en TU Delft
- MAASTRO Clinic Maastricht en UMC Groningen

