

Publieksdag Hersentumoren

Zaterdag 16 maart 2019
De Landgoederij, Bunnik

Welke bestralingstechniek voor hersentumoren: protonen of fotonen?

Naam

Hiske van der Weide

Functie

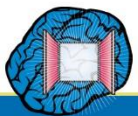
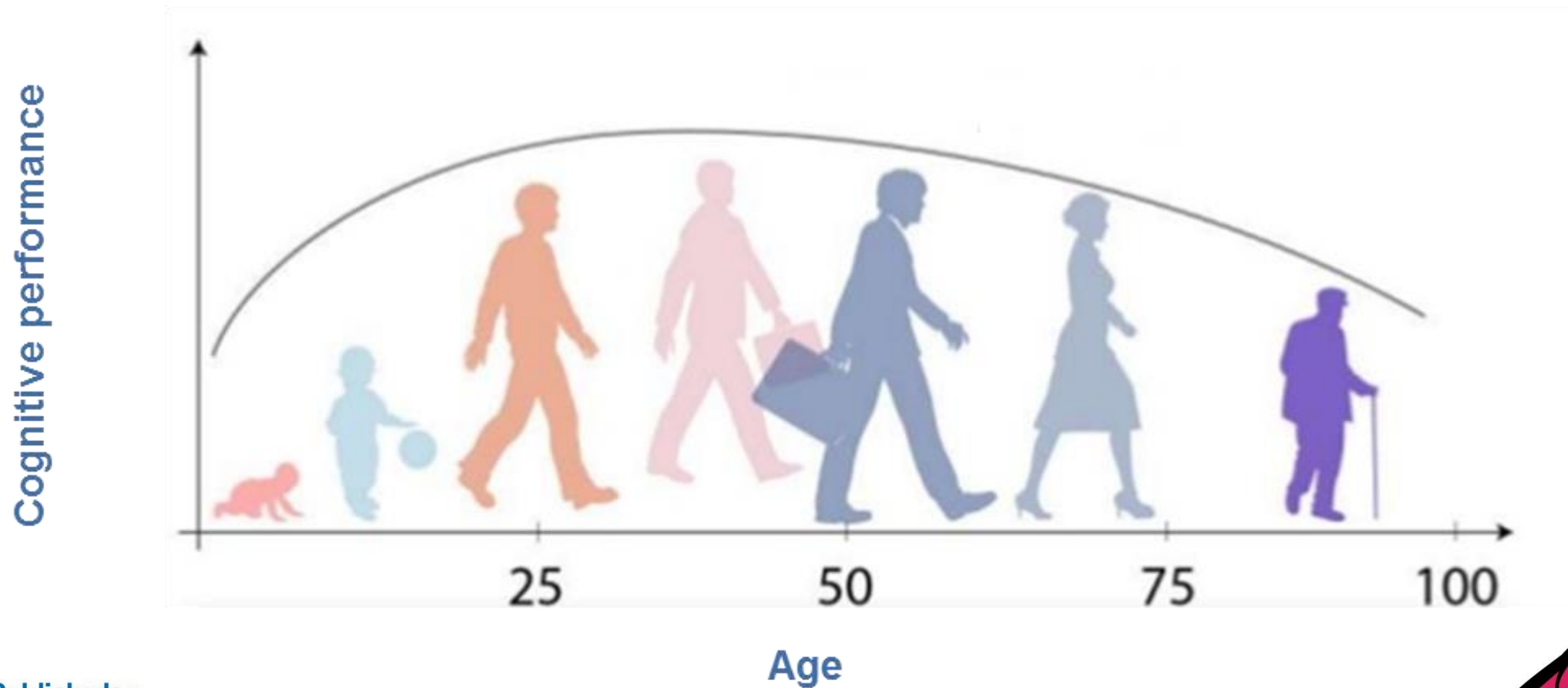
Radiotherapeut UMCG



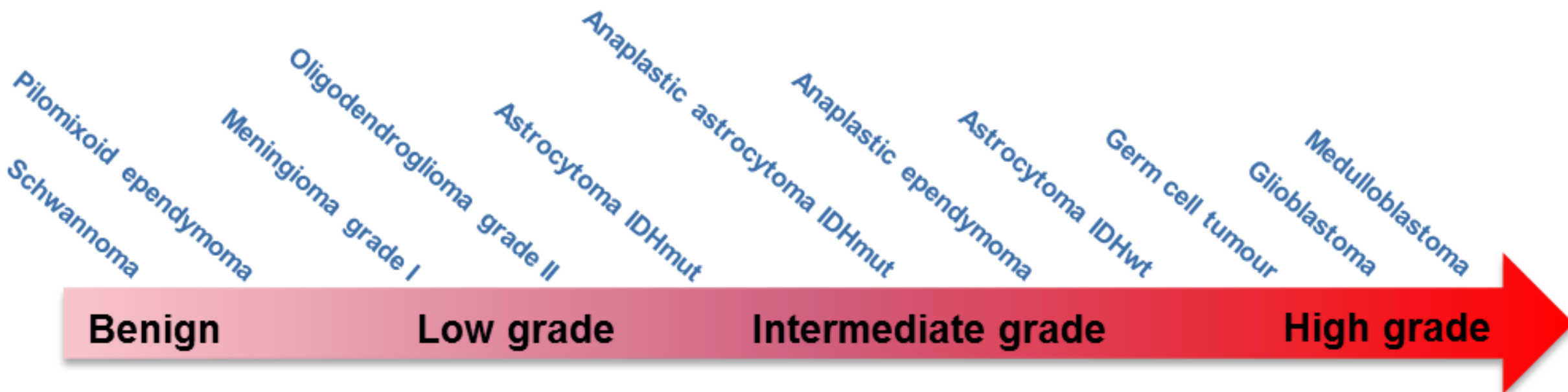
In samenwerking met:



Radiotherapie voor hersentumoren *patiënten*



Radiotherapie voor hersentumoren *tumoren*



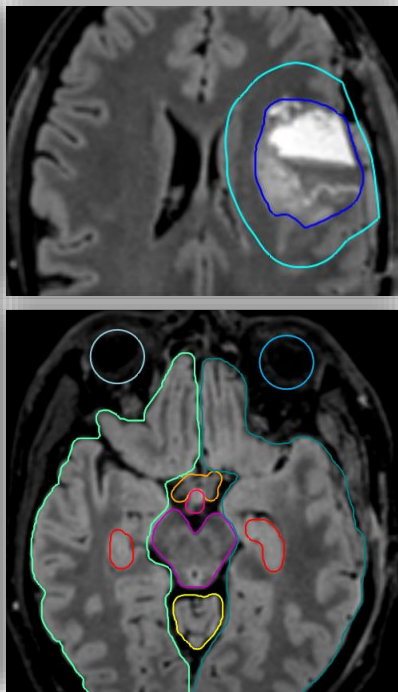
Van behandelindicatie tot behandelplan



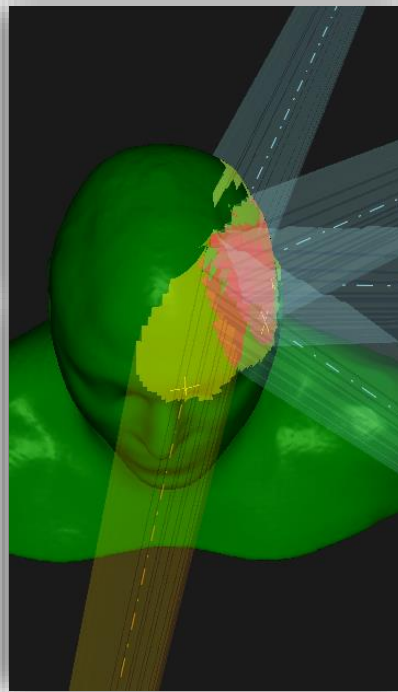
Positionering en immobilisatie



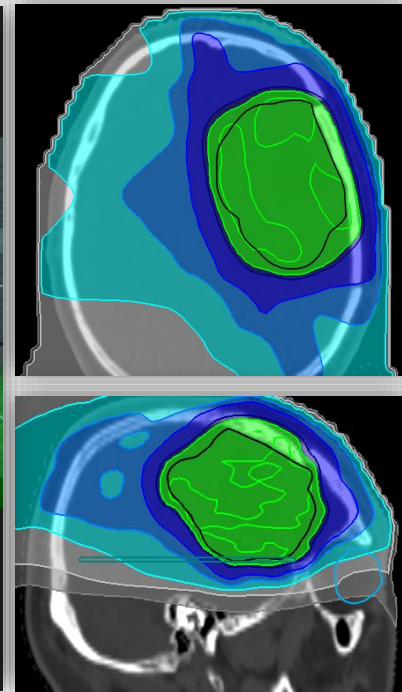
Beeldvorming



Definiëren doelvolumen



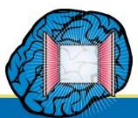
Treatment planning



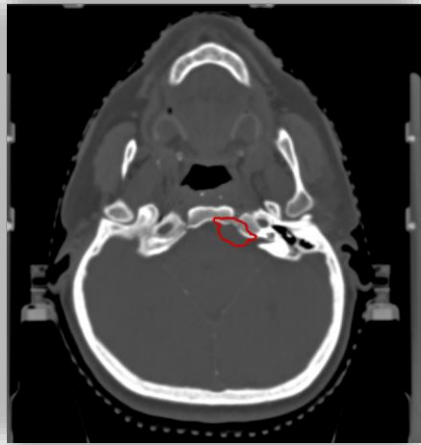
Behandelplan



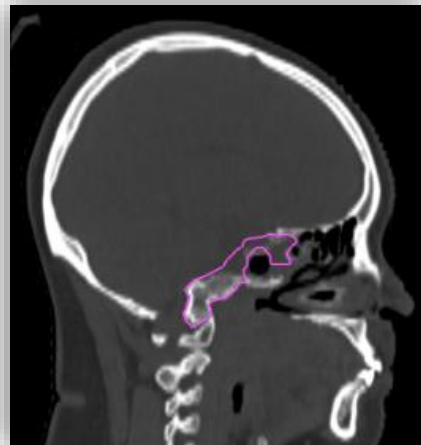
Behandeling



Radiotherapie voor hersentumoren *doelvolumes*



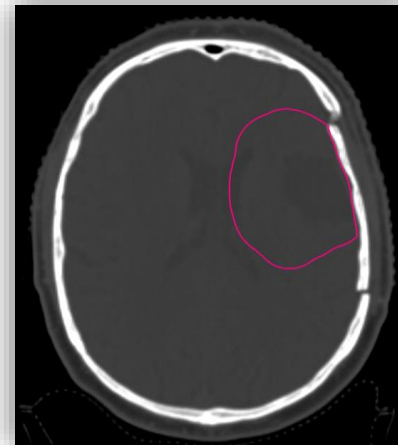
Beperkt volume



Schedelbasis



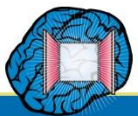
Kleine hersenen



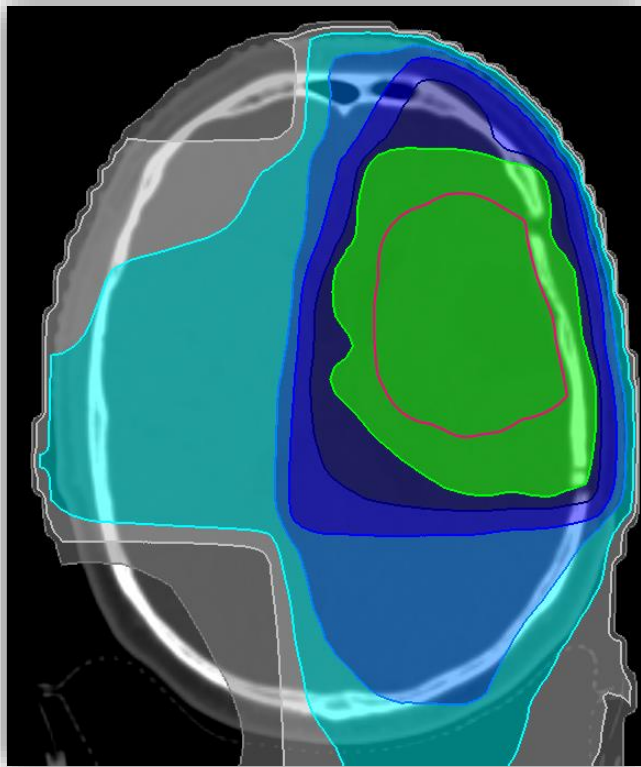
Grote hersenen



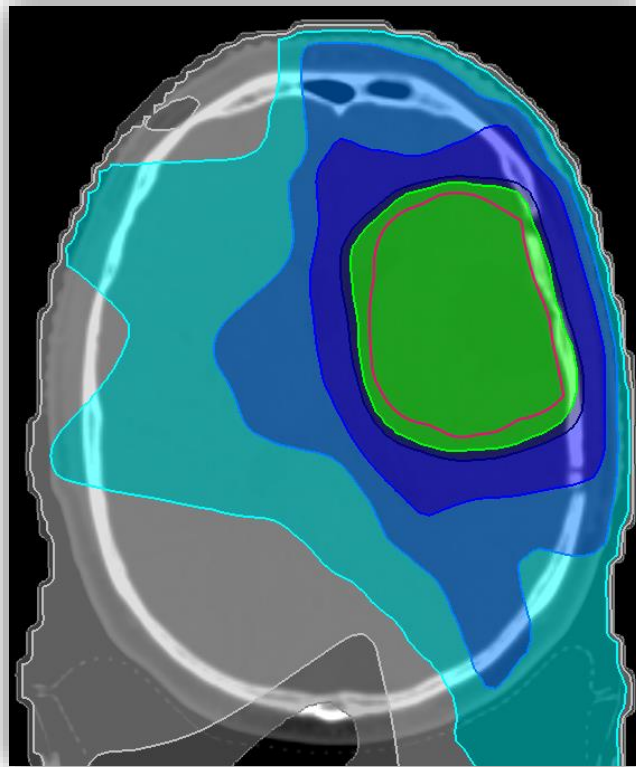
Totale hersenen en rug



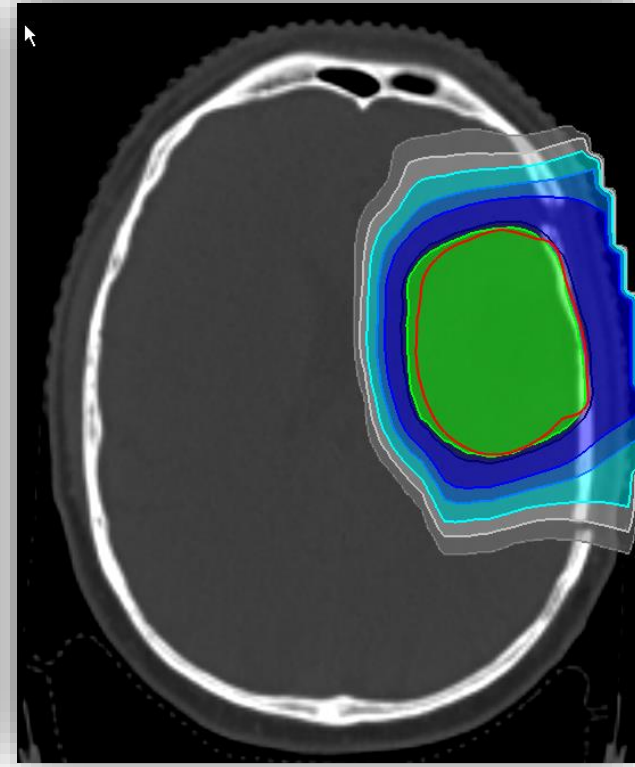
Radiotherapie technieken



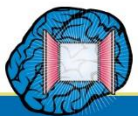
3D CRT < 2010



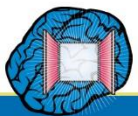
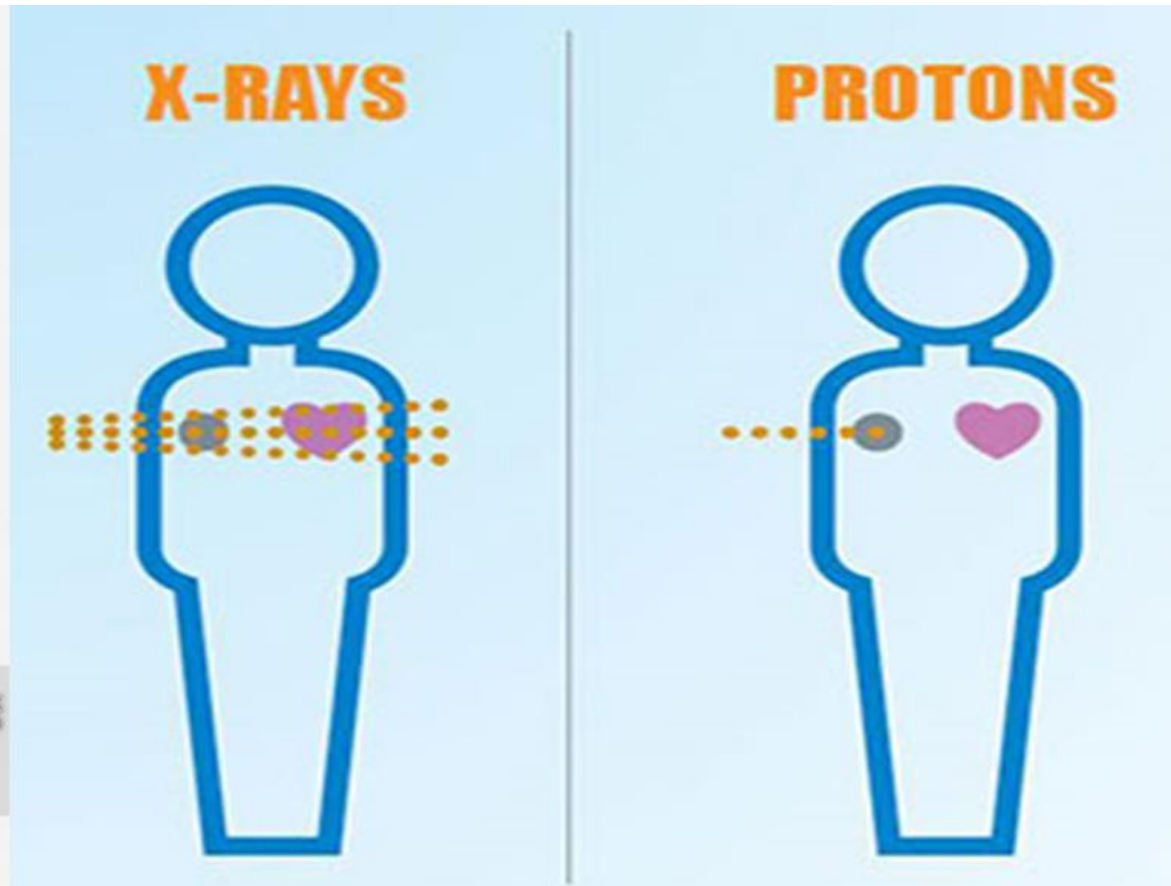
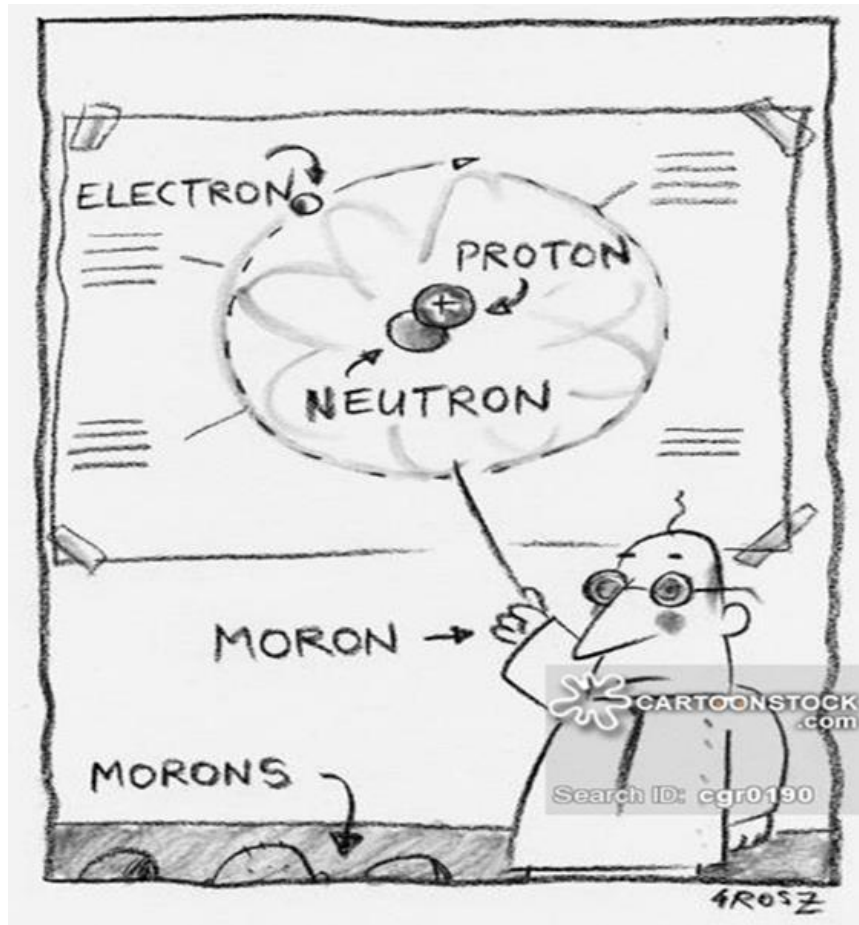
IMRT/VMAT > 2010



Protonen



Protonentherapie *verminderen van bijwerkingen*



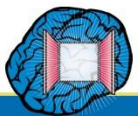
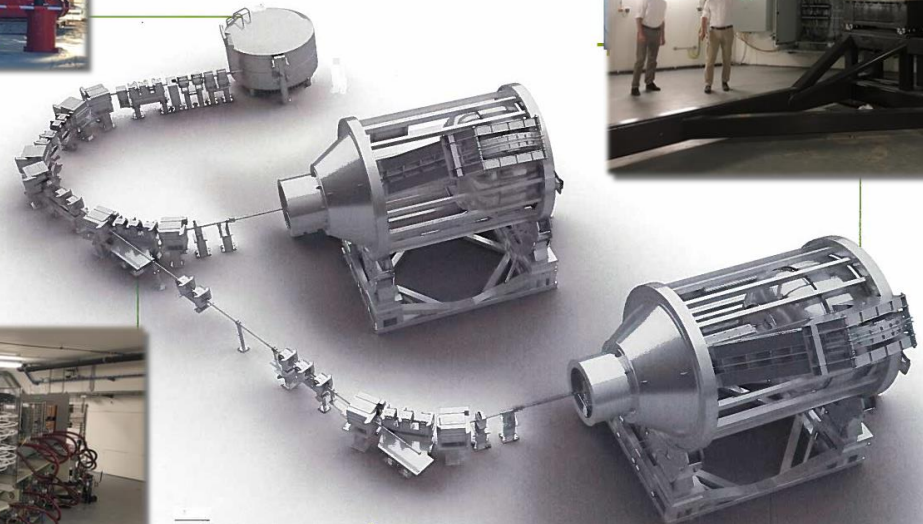
Protonentherapie *apparatuur*

Cyclotron
200 ton

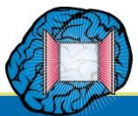


Gantry
10 meter
100 ton

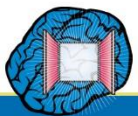
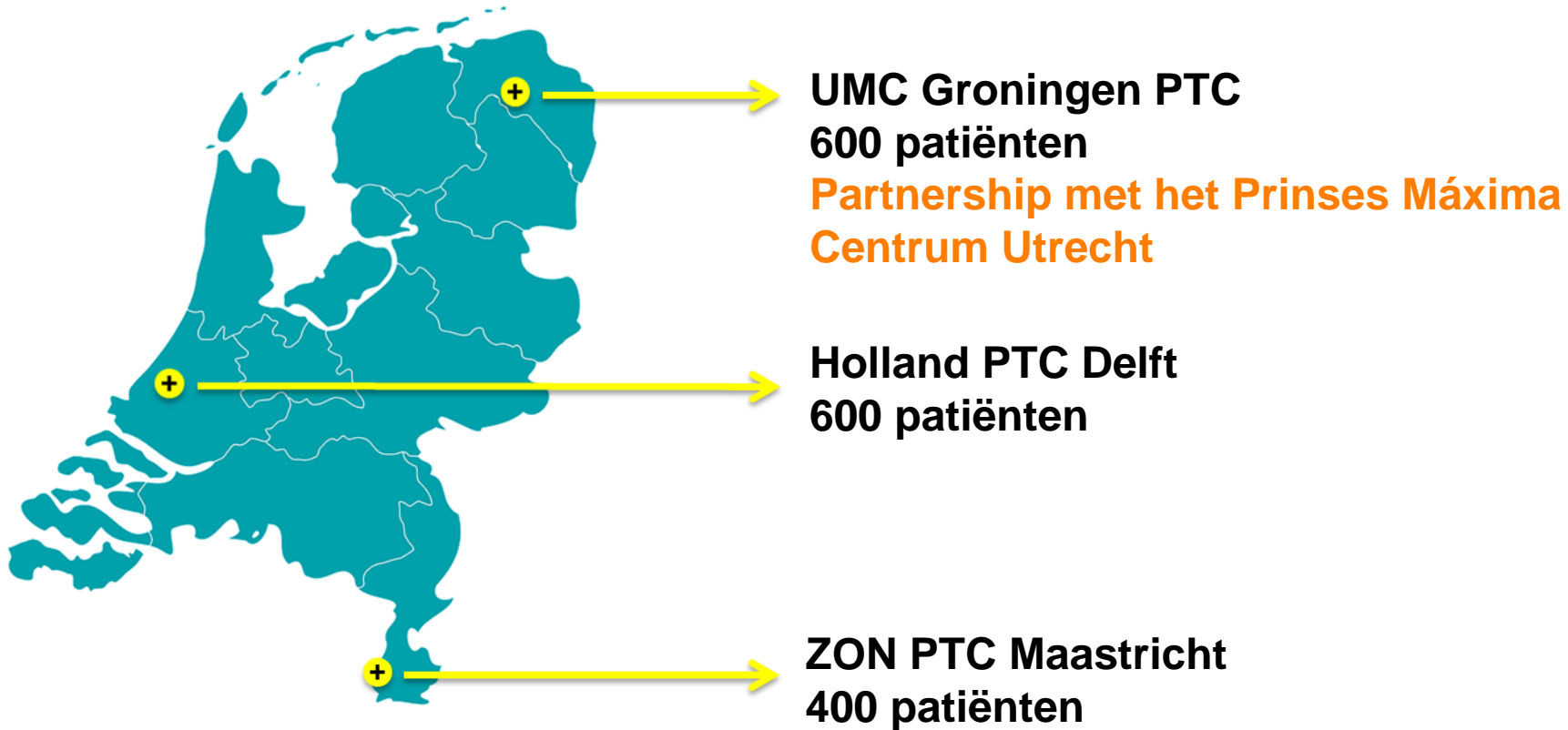
Beam Line
Magneten voor
sturen en focussen



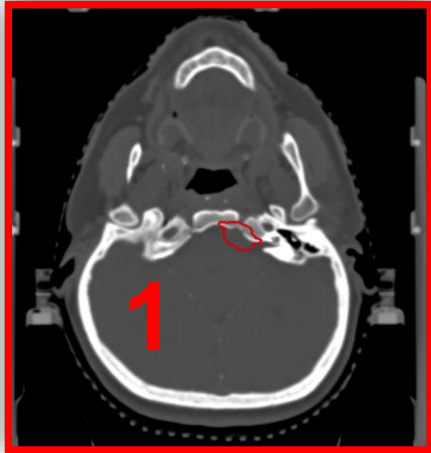
Protonentherapie *behandelruimte*



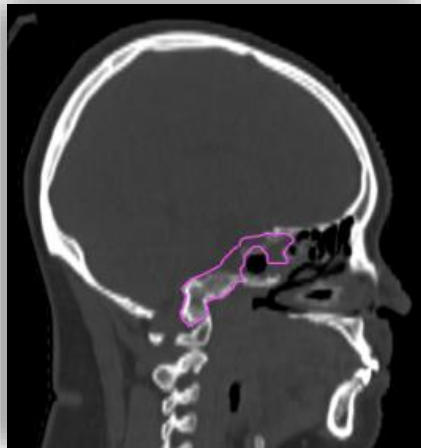
Protonentherapie *beschikbaarheid*



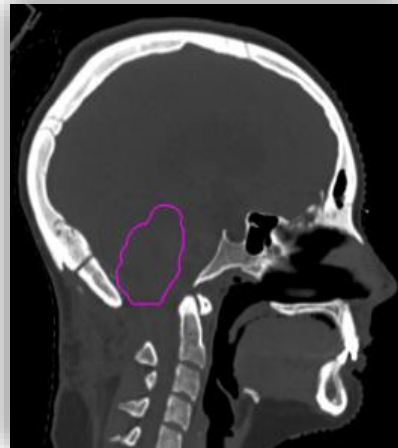
Wanneer protonentherapie?



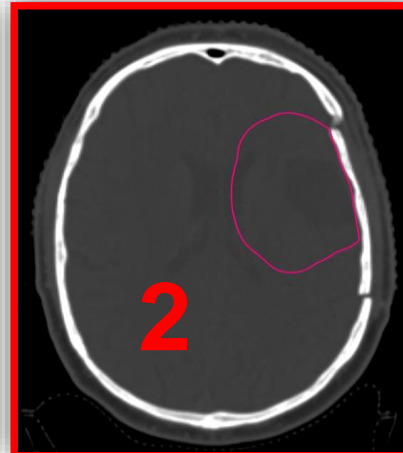
Beperkt volume



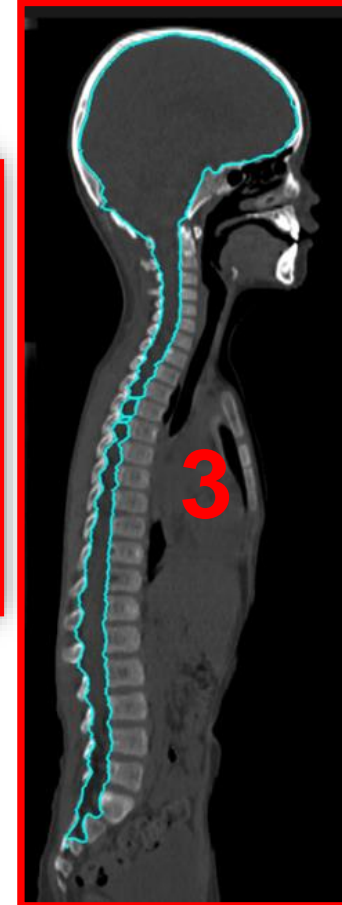
Schedelbasis



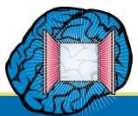
Kleine hersenen



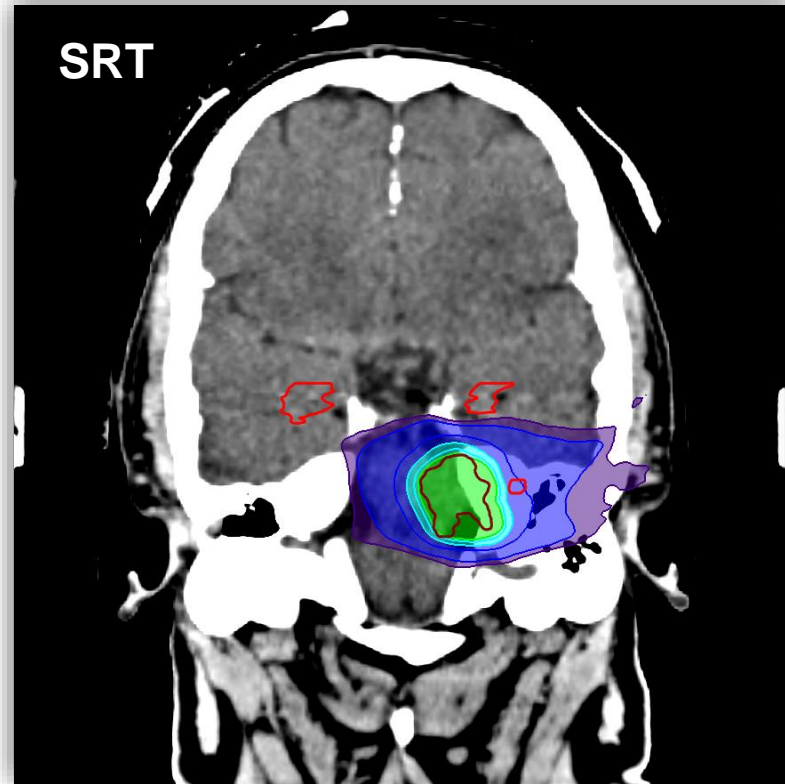
Grote hersenen



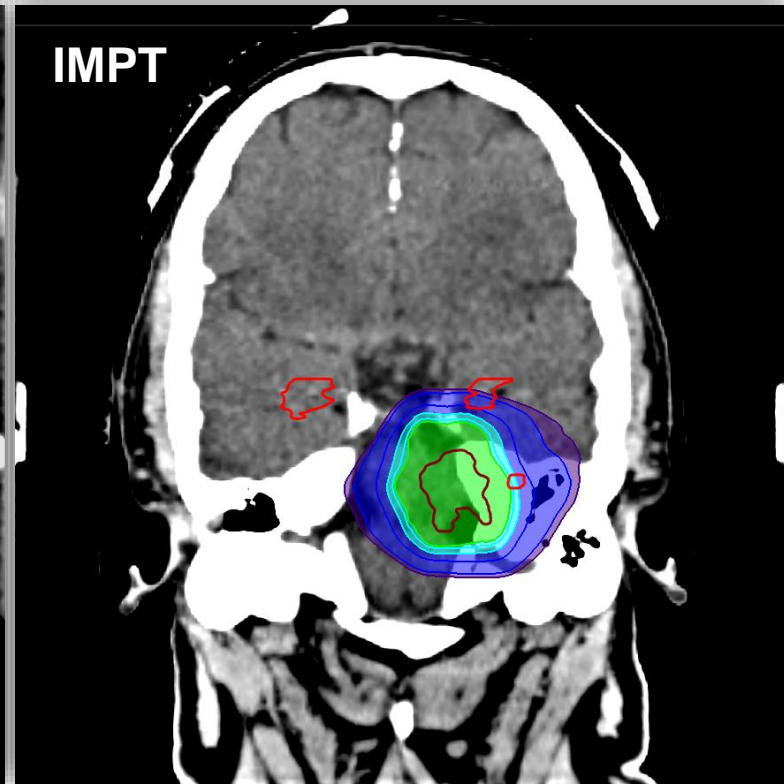
Totale hersenen en rug



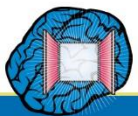
1. Beperkt volume – stereotactische fotonen voorkeur



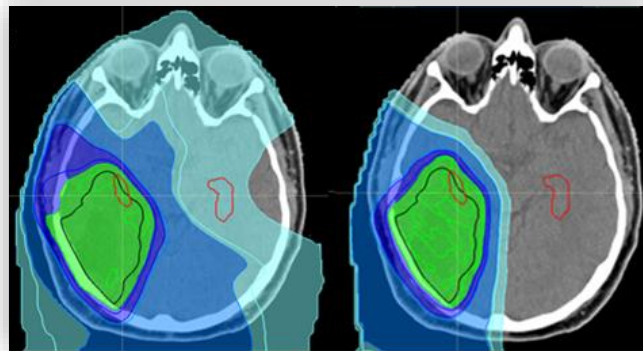
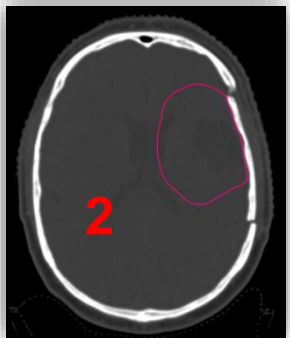
Fotonen SRT



Protonen



2. Grote hersenen – individuele afweging



Fotonen

Protonen

Slechte prognose

Agressieve tumor

Weinig dosis winst

Veel klachten van de tumor

Behandeling dicht bij huis

Jonge leeftijd

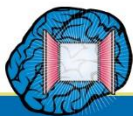
Gunstige prognose

Laaggradige tumor

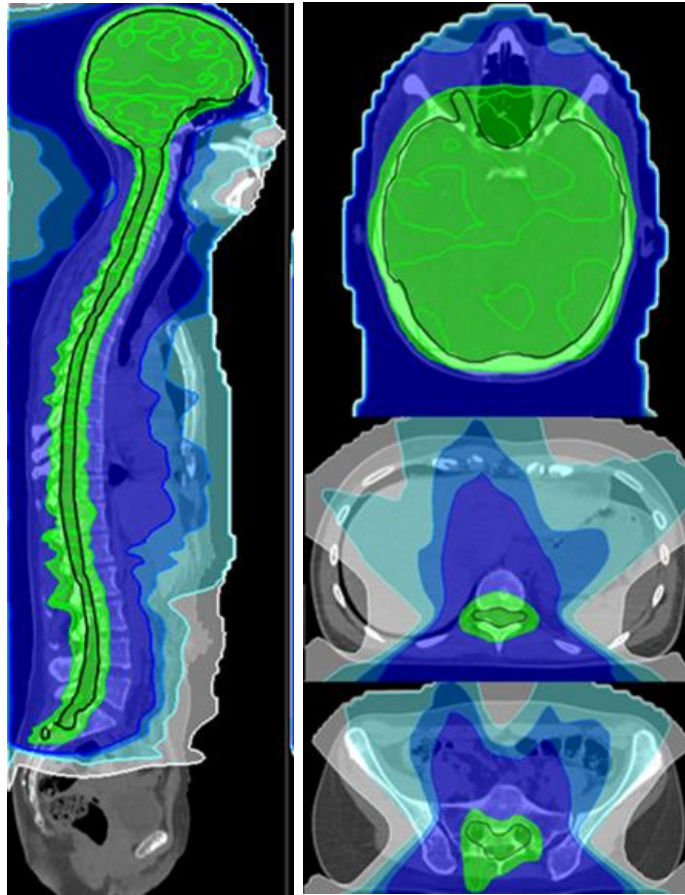
Weinig klachten van de tumor

Sterk gemotiveerde patiënt

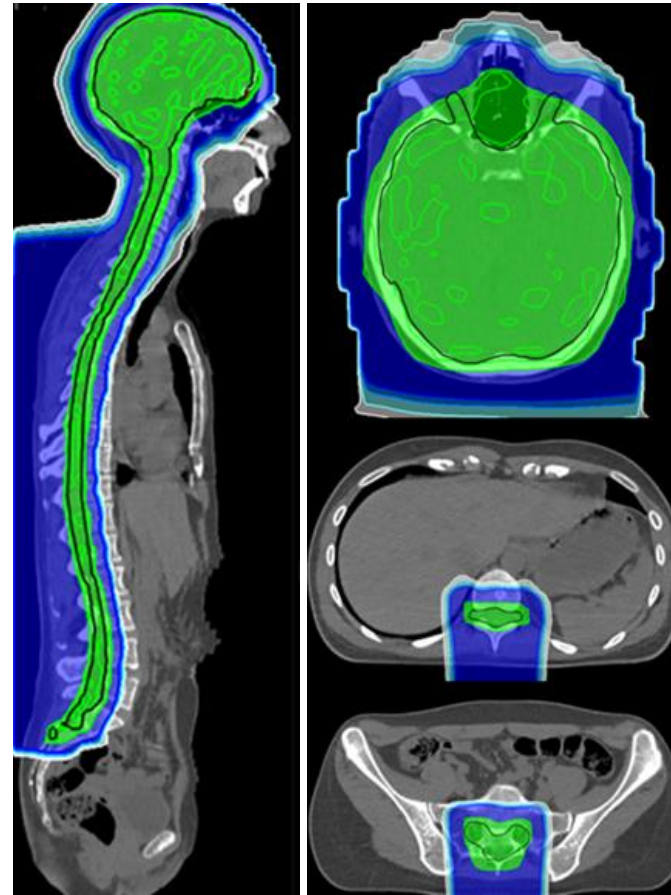
Veel dosis winst



3. Totale hersenen en rug – protonen voorkeur



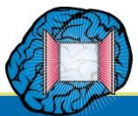
Fotonen



Protonen



Protonentherapie in Groningen



Multidisciplinaire zorg



Neuro-oncologen



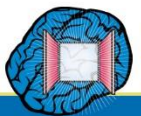
Neuro-psychologen



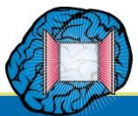
**Kinder-
neuroloog**



Protonen anesthesie team



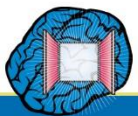
Samenwerking met het Prinses Maxima Centrum Utrecht



Behandelde patiënten met hersentumor 2018- heden



Totaal	66
Kind met narcose	19
Kind zonder narcose	22
Volwassen	25





THINK LIKE
A PROTON.
ALWAYS
POSITIVE.

