



Kanker, een chronische ziekte?

Piet Dirix MD, PhD

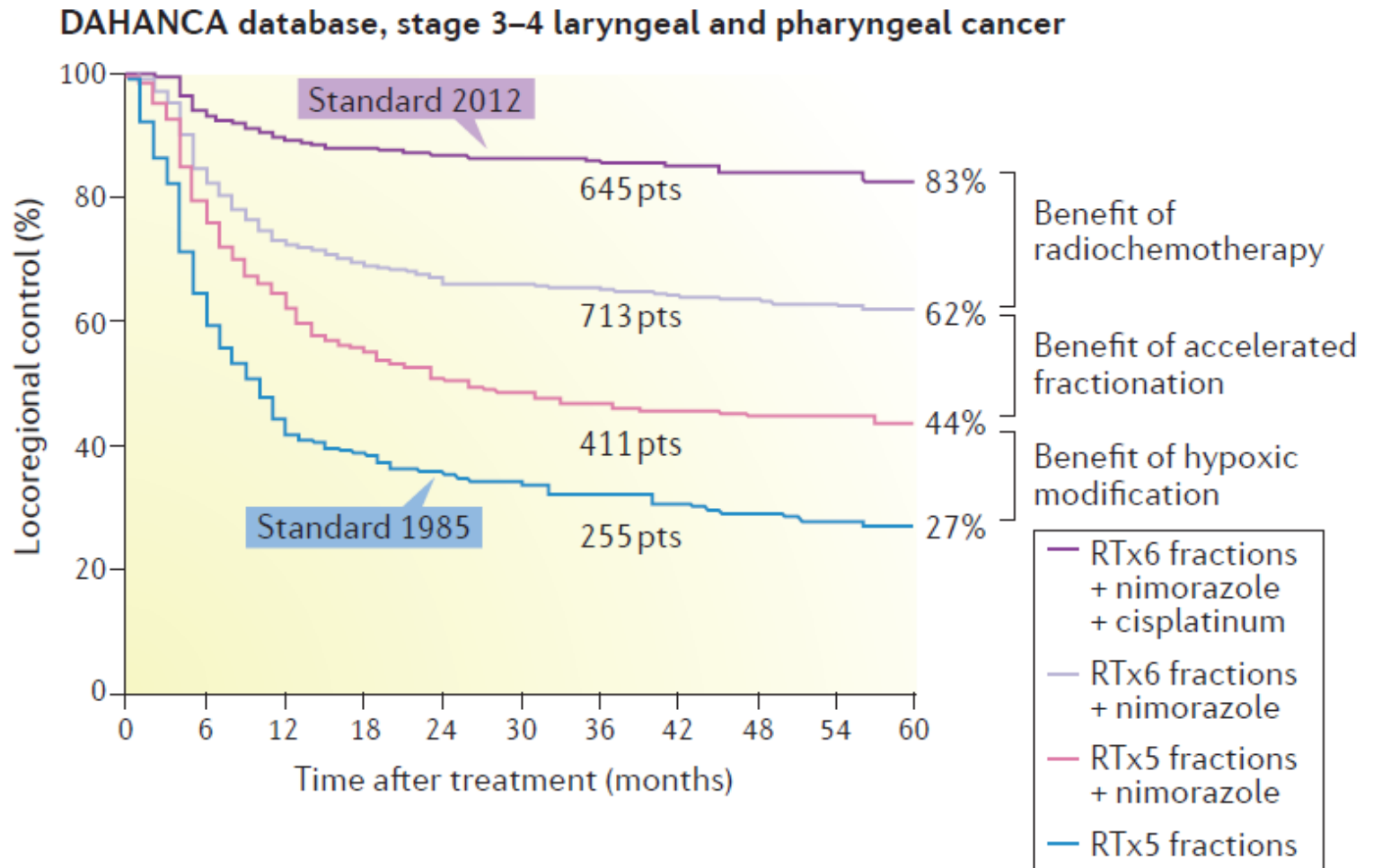
Radiotherapie-Oncologie

Iridium Kankernetwerk

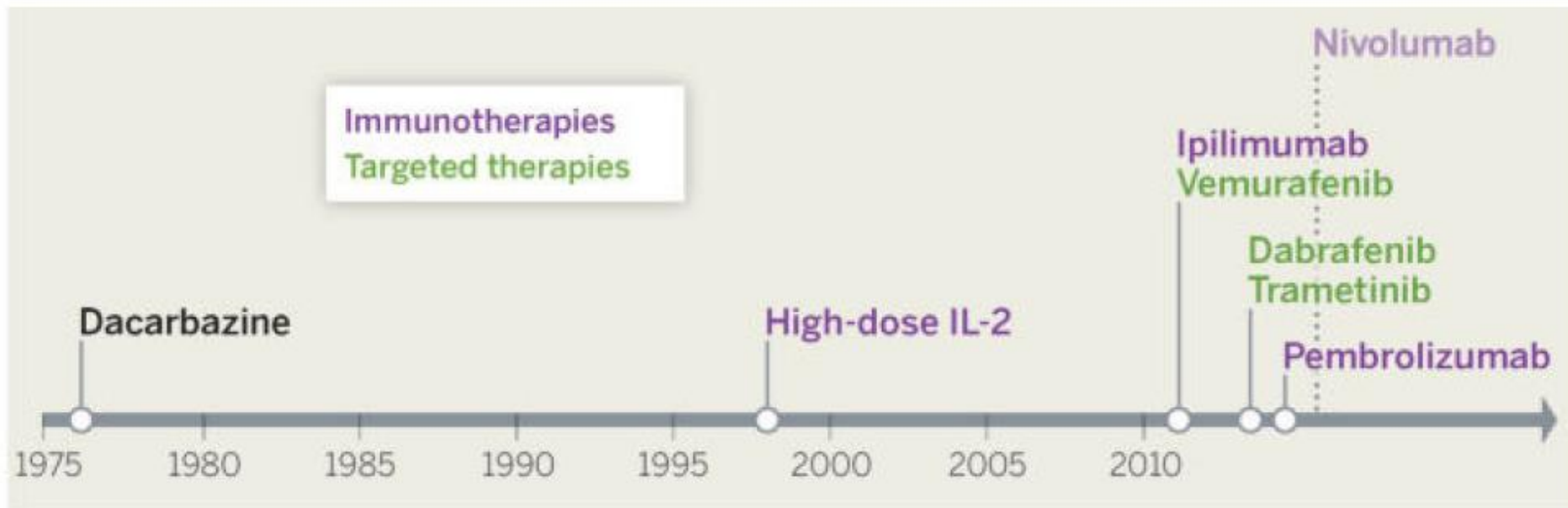
GZA St Augustinus

www.iridiumkankernetwerk.be

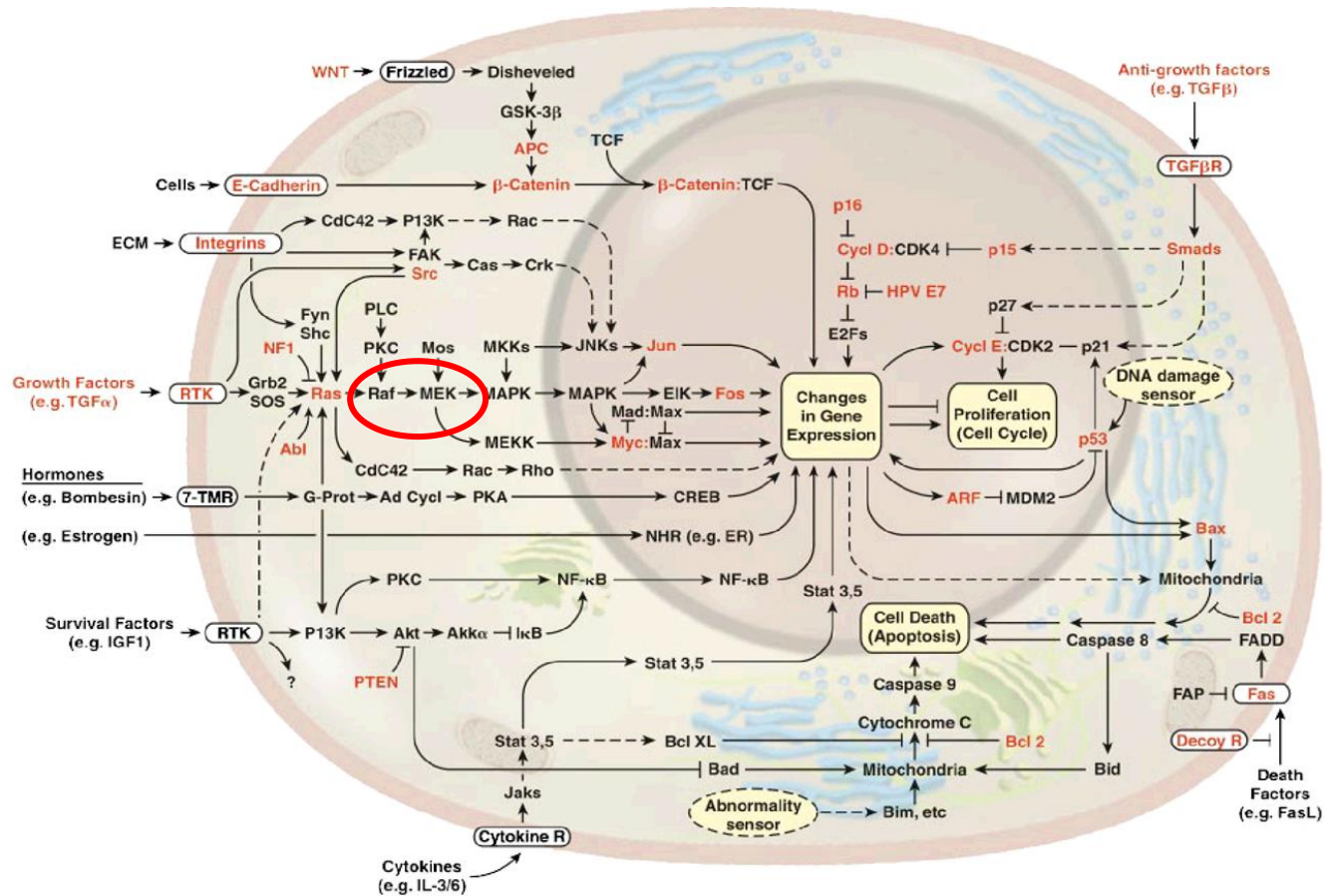
Higher cure rate in early-stage disease, e.g. HNC.



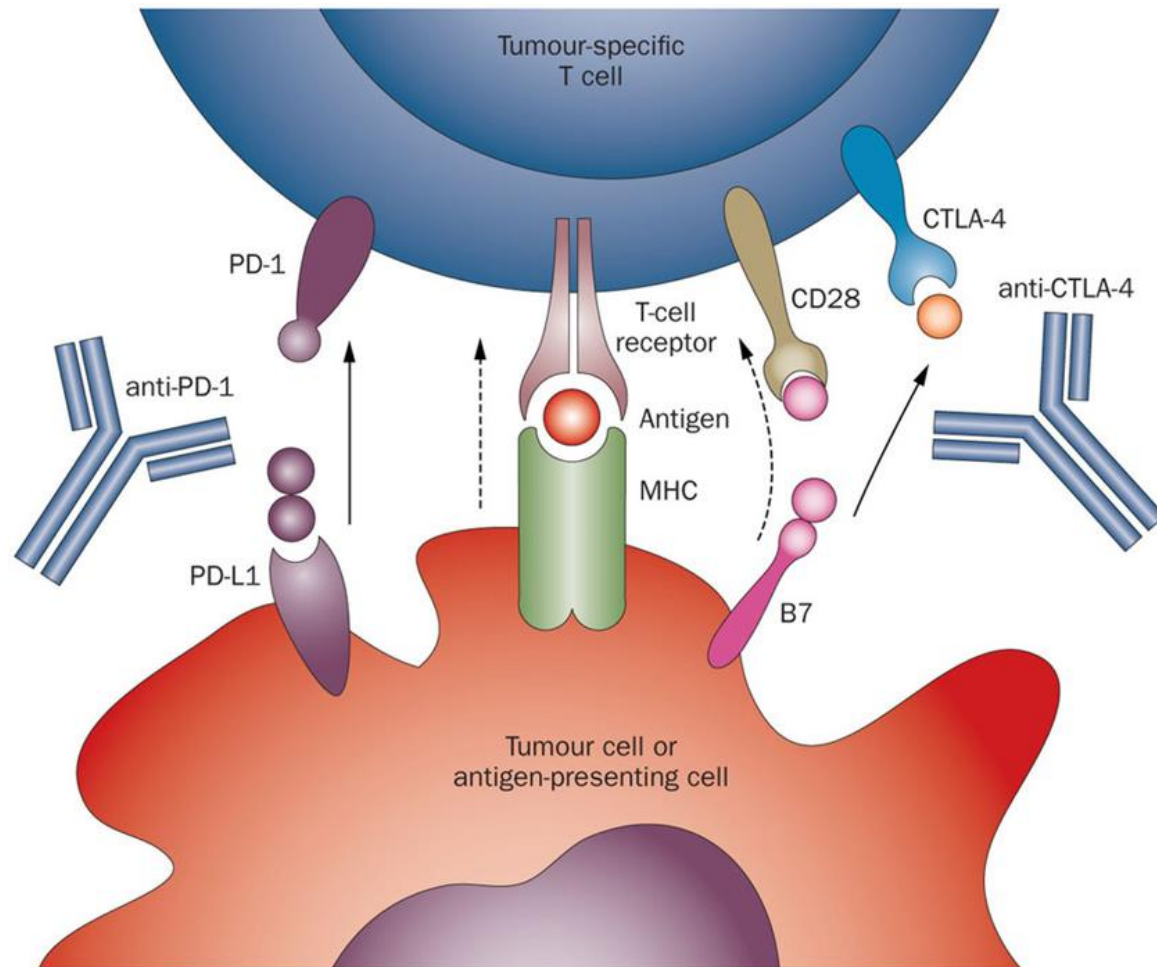
More options in advanced disease, e.g. melanoma.



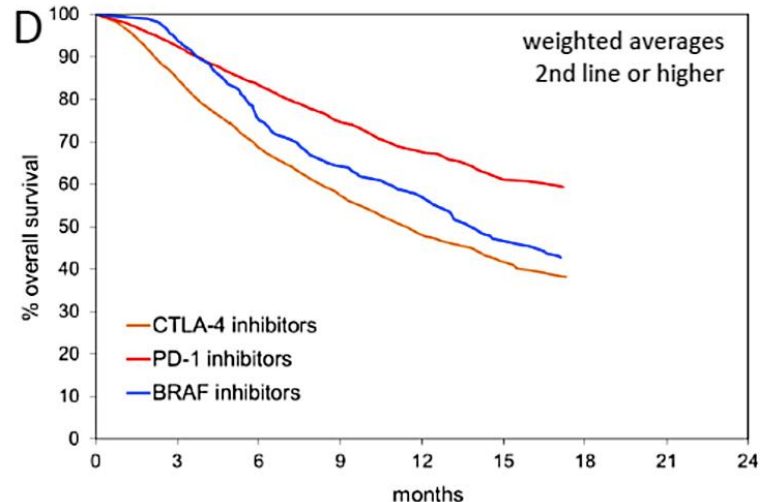
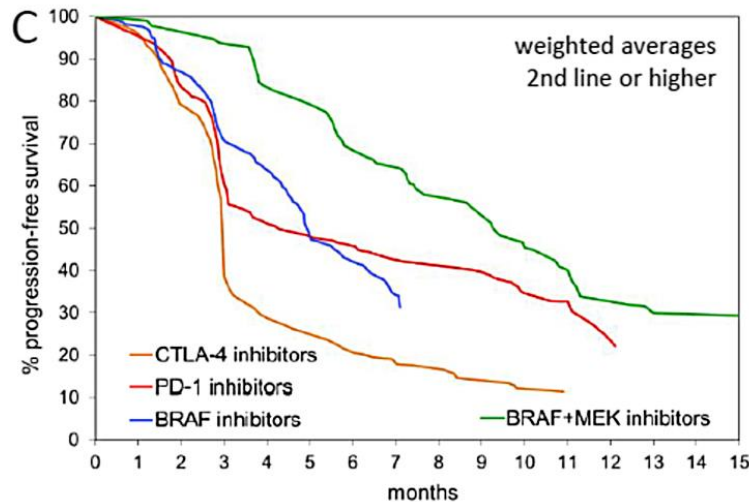
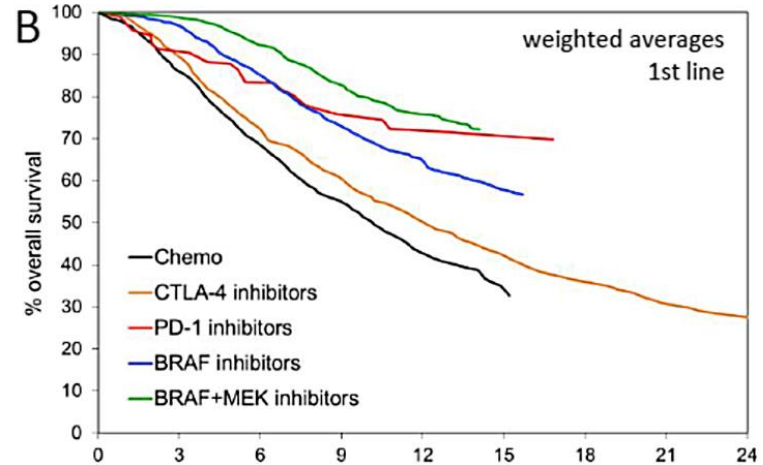
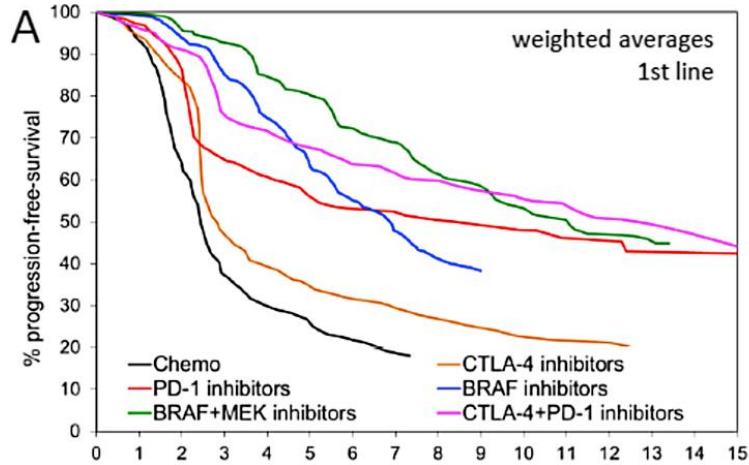
1. Targeted agents.



2. Immunotherapy: "inhibiting the inhibitor".



Significant, although expensive, OS benefit.

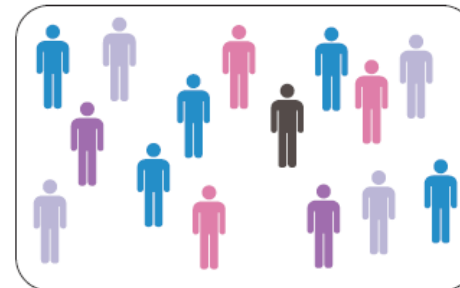


Towards "precision medicine" in oncology.



PRESIDENT OBAMA'S PRECISION MEDICINE INITIATIVE WOULD
**HELP DEVELOP BETTER TREATMENTS
FOR DISEASES LIKE CANCER BY:**

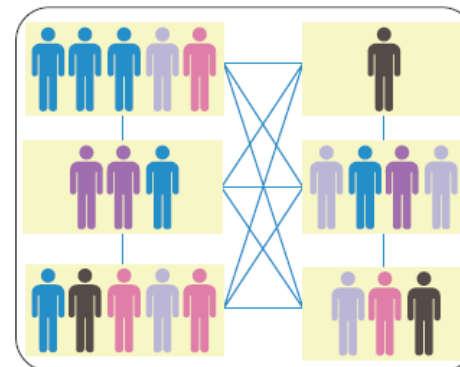
- Accelerating the design and testing of effective treatments tailored to individual patients
- Expanding genetically based clinical cancer trials
- Establishing a national "cancer knowledge network" to guide treatment decisions



- Patients with the same tumour disease and stage have typically received similar treatments
- Large clinical trials possible



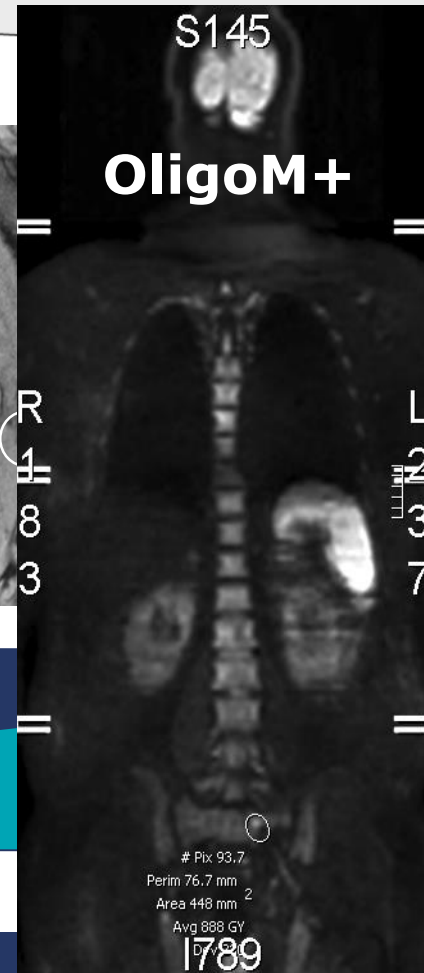
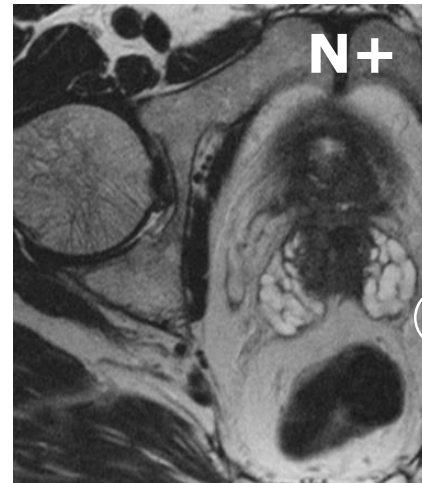
- Biomarkers allow stratification into small subgroups
- Trials for treatment individualization



- Small numbers of patients per subgroup per centre
- Networks necessary
- Novel trial designs needed

Oligometastases in clinical practice.

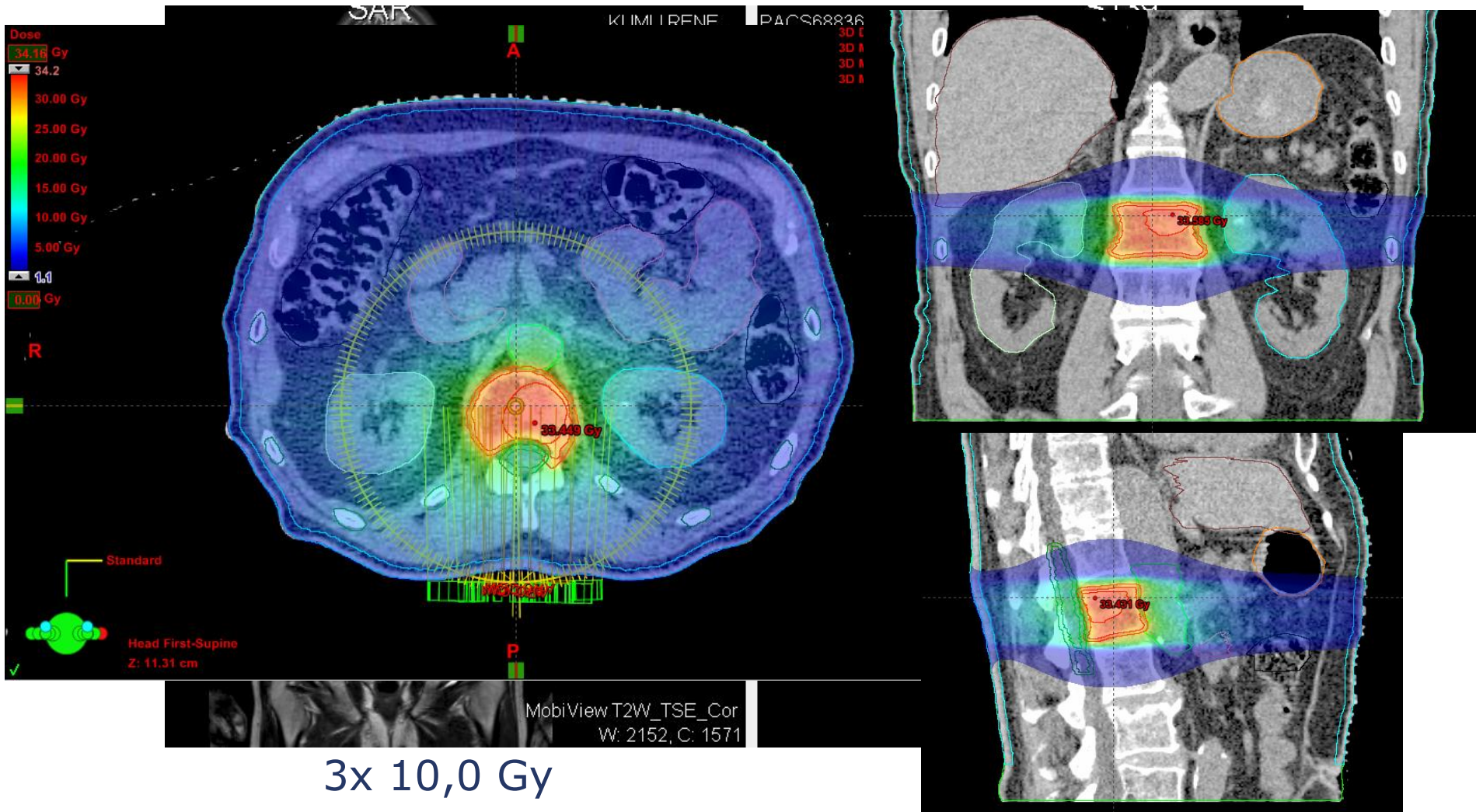
Metastatic potential



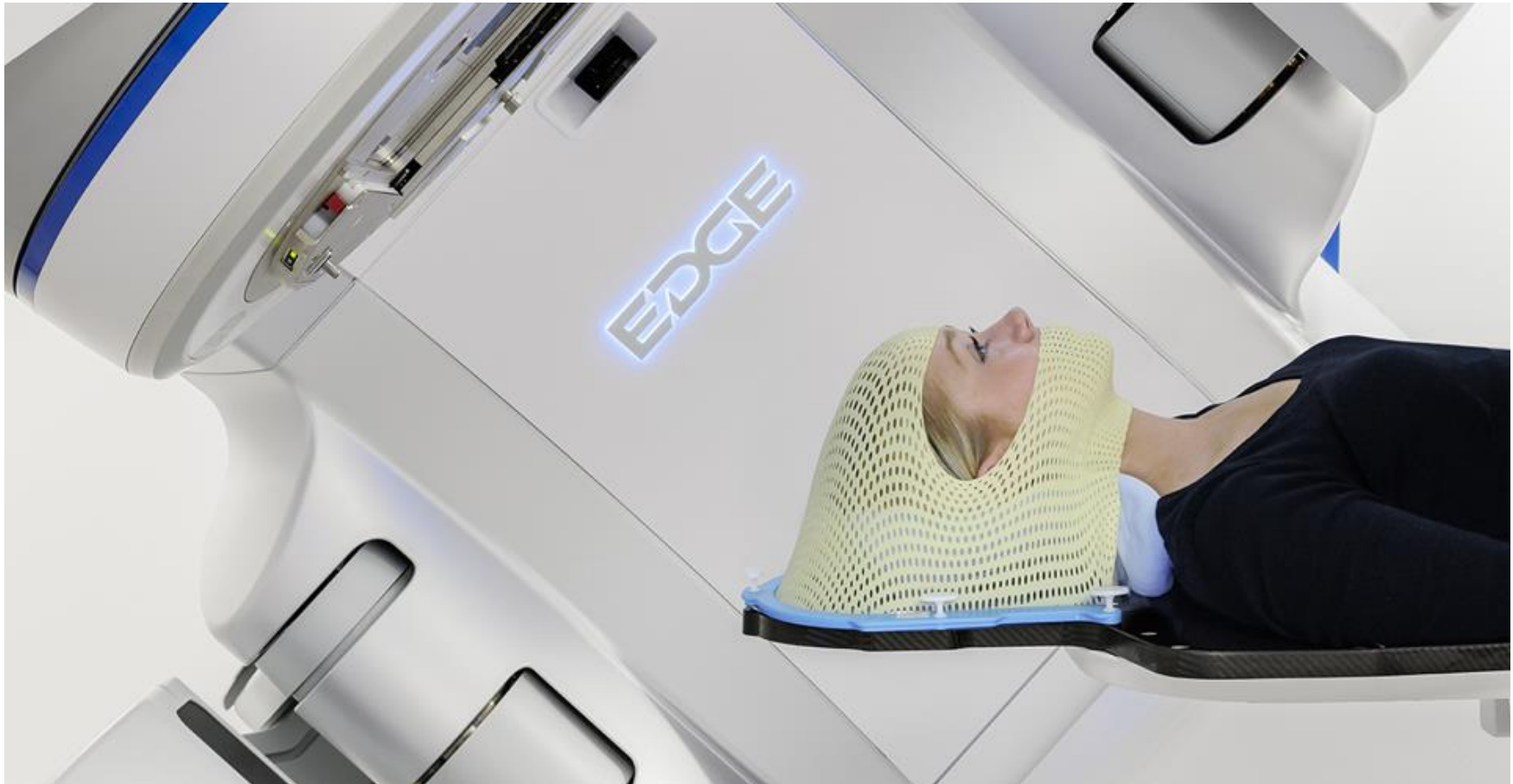
Loco-regional treatment

Systemic treatment

Stereotactic ablative radiotherapy (SABR).



From 01/2017 dedicated treatment machine: TB STx.



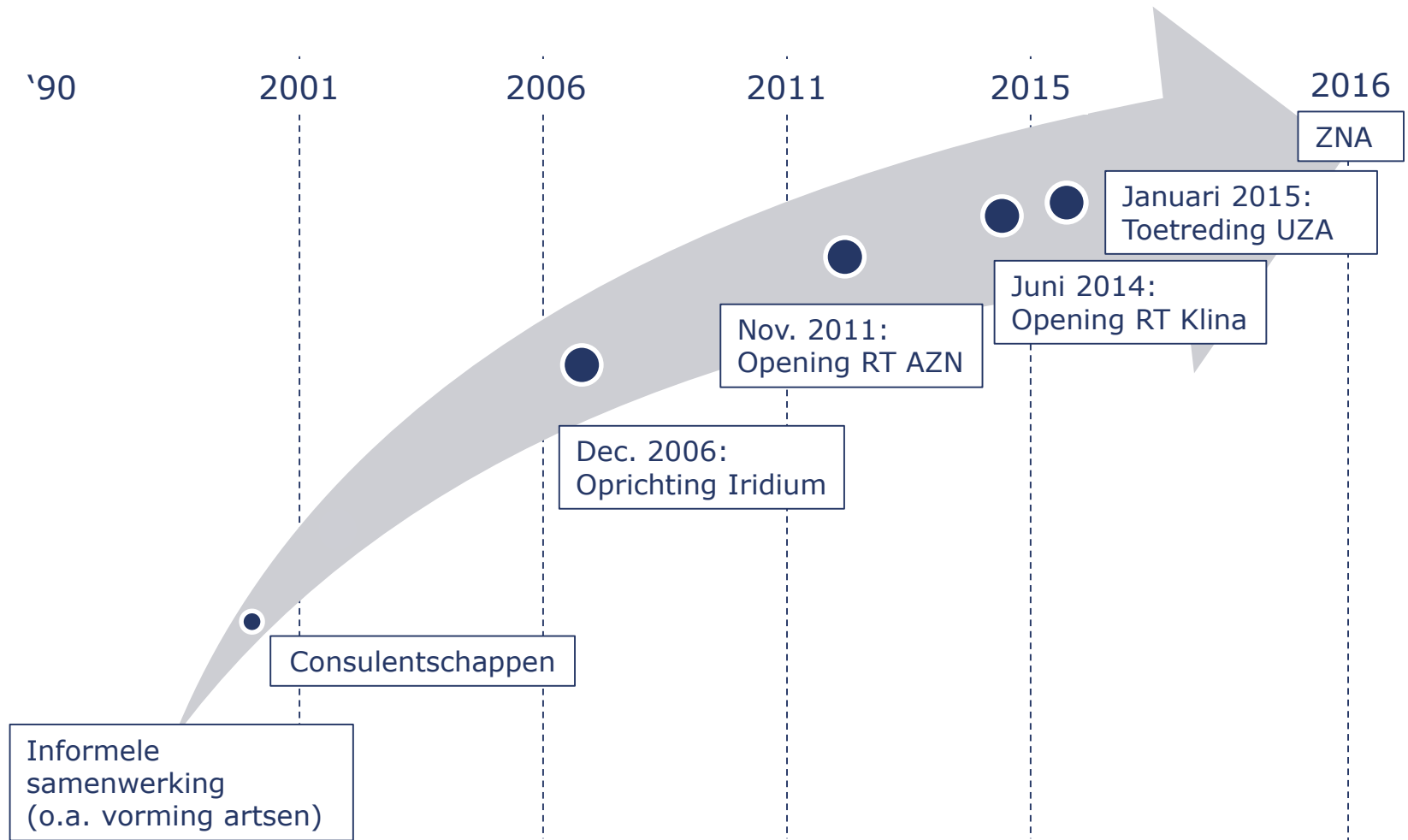
Overall accuracy < 1,0 mm.

Iridium Cancer Network: all Antwerp hospitals.

- GZA Ziekenhuizen ①②③
- AZ KLINA ④
- AZ Nikolaas ⑤
- AZ Monica ⑥⑦
- AZ Sint-Jozef Malle ⑧
- UZA ⑨
- ZNA ⑩⑪



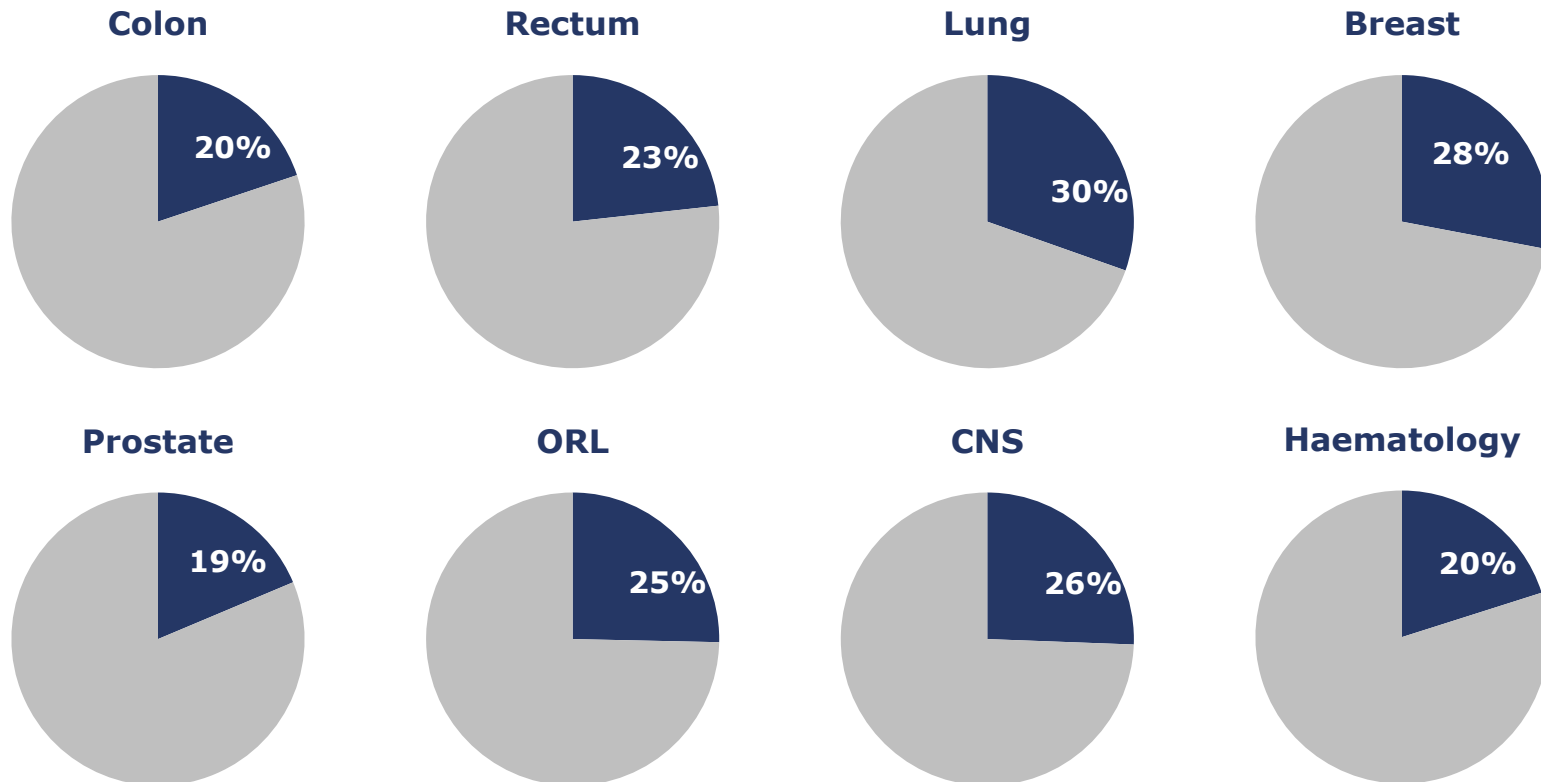
History of the Iridium Cancer Network.



Position of the Iridium Cancer Network in Flanders.

- Population of Flanders: 6,444,127 people.
- "Population" within Iridium: 1,495,086 people (+/- 23%).
- New cancer diagnoses in Flanders/year: 42,625 patients.
- New cancer diagnoses treated in Iridium/year: 9,869 patients (+/- 23%).
- Expected RT treatments: +/- 4,934 patients/year.

Cancer treatments in Flanders.



Around 5,000 RT treatments every year.

