MASKLESS SETUP WITH ALIGNRT AT SATASAIRAALA – STAFF EXPERIENCE

FLOW OF THE PRESENTATION

- Introduction
- Our story with SGRT
- Maskless setup and patient case’s

OUR DEPARMENT IN SATASAIRAALA

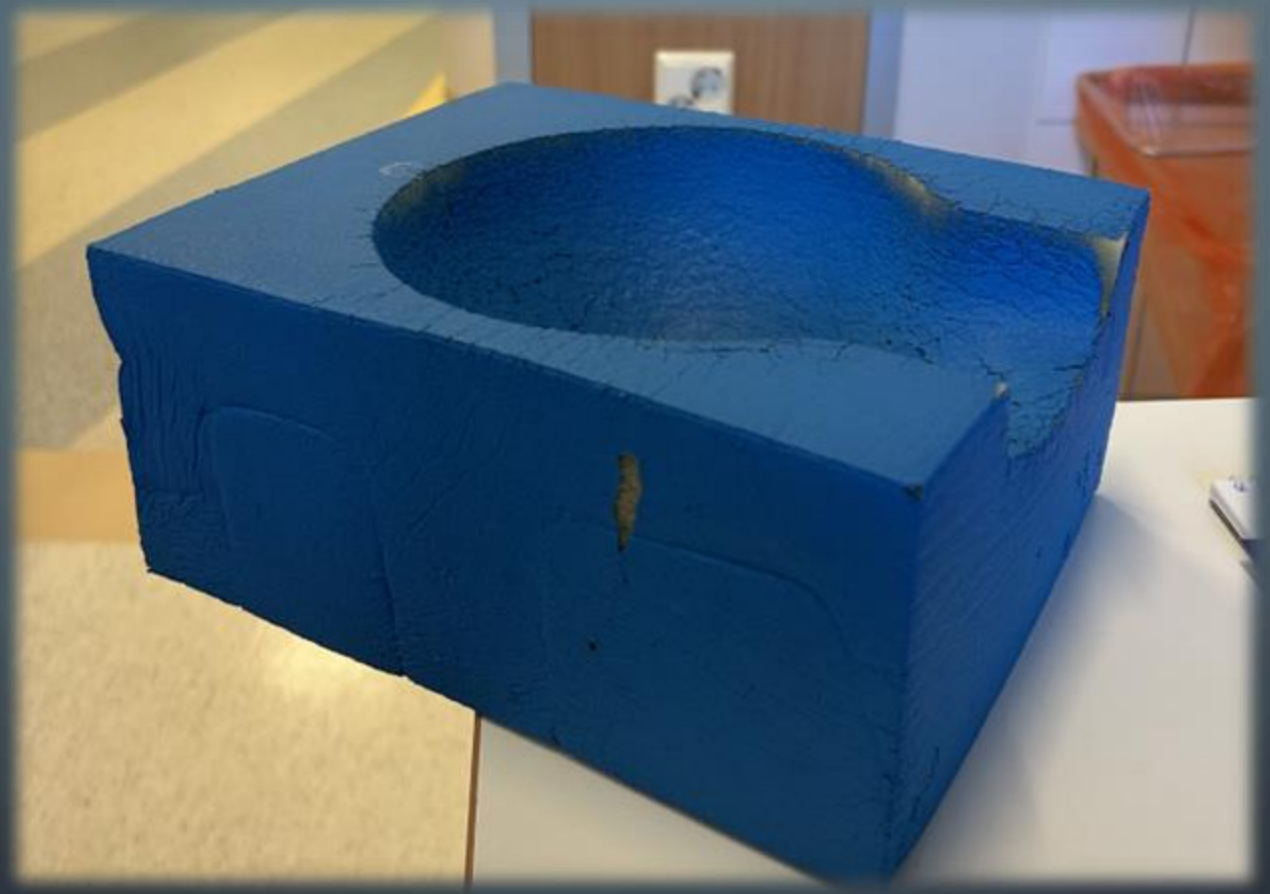
- Deparment was established in 2006
- 13 radiotherapist's, including head nurse
- 2 physicist's and 1 oncologist
- Two TrueBeams and GE CT
- AlignRT on both TrueBeams's and SimRT (MapRT pending)

OUR ADVENTURE WITH VISIONRT

- SGRT was introduced to us in spring 2022
- After installation and on site –training AlignRT and SimRT were immidiately put in the practise
- At the same time tattoo's became only

an distand memory from a less civilized age

OUR SECRET WEAPON



MASKLESS SETUP WITH ALIGNRT

Intake criteria

- Co-operability
- Every case is individually assessed and the fixation is decided by multidisciblinary team (oncologist, physicist and radiotherapist)
- In total 12 patient's since last summer

MASKLESS SETUP WITH ALIGNRT

- Our ROI is still figuring out itself, but usually we make “Zorro-mask”
- Positioning is a combination of Postural Video, Delta’s and Deformation
- SGRT protocol
  - It gives Beam Hold Delay time zero but we usually use 1s or in some case's 2s
  - Tolerance +/- 0.2 cm, also +/- 0.1cm have been tested
- Standard scheduled treatment

MASKLESS SETUP WITH ALIGNRT

Analysing method's

- Couch correction average's after imaging for every fraction (ARIA+Excel)
- Tolerance variation during treatment according to AlignRT reports

PATIENT CASE 1

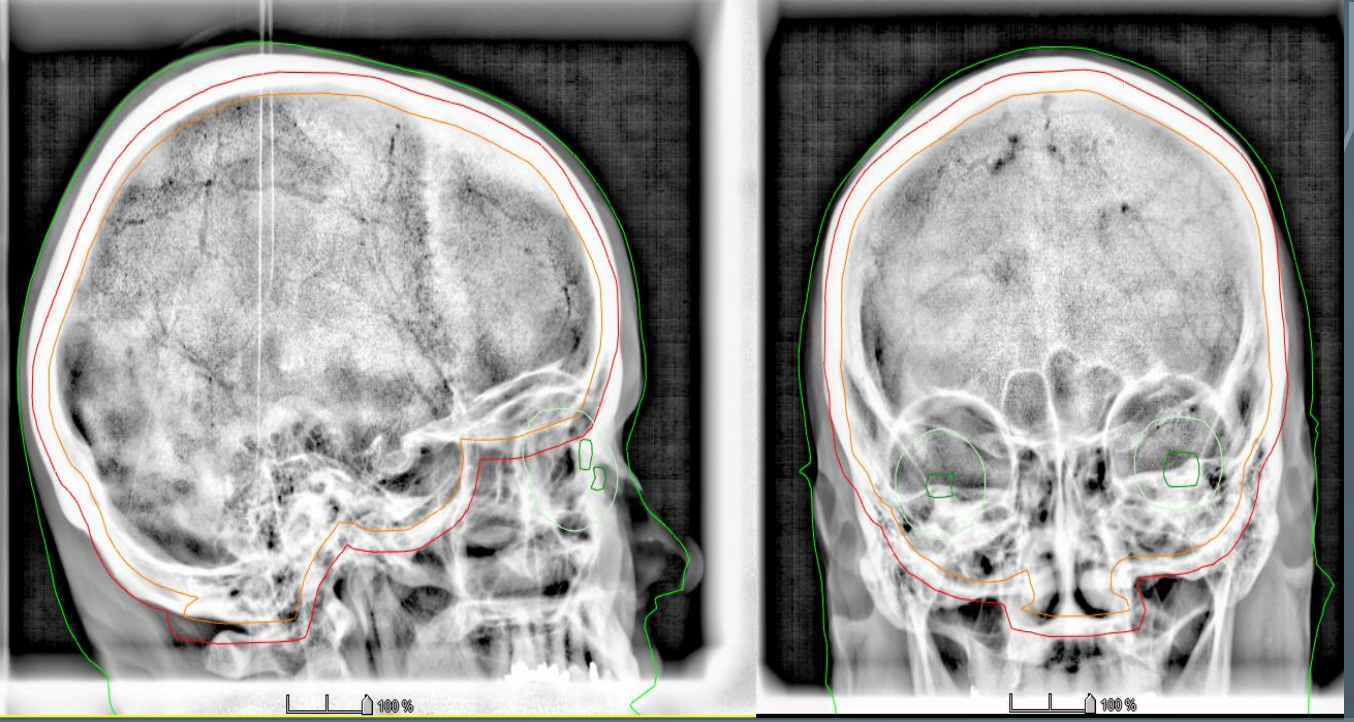
- 45 year old woman
- Non H-lymphfoma
- Nasopharynx 4x4 Gy + 3x3 Gy
- Two Static Field's

- No RTD's out of tolerance during treatment

- Vrt -0,17 Lng -0,11 Lat -0.03

PATIENT CASE 2

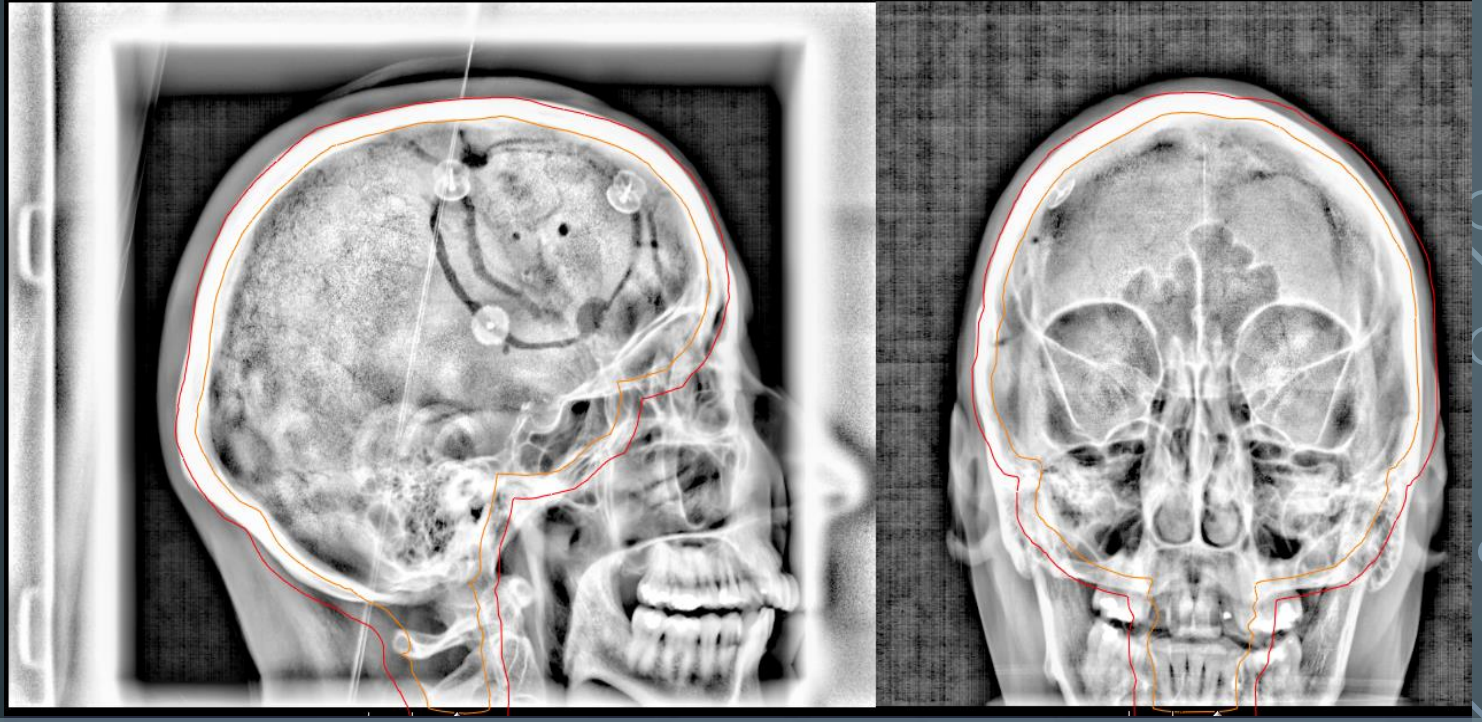
- 74 year old woman
- Met. Breast Cancer
- WBRT 5x 4 Gy
- Two Static Field's

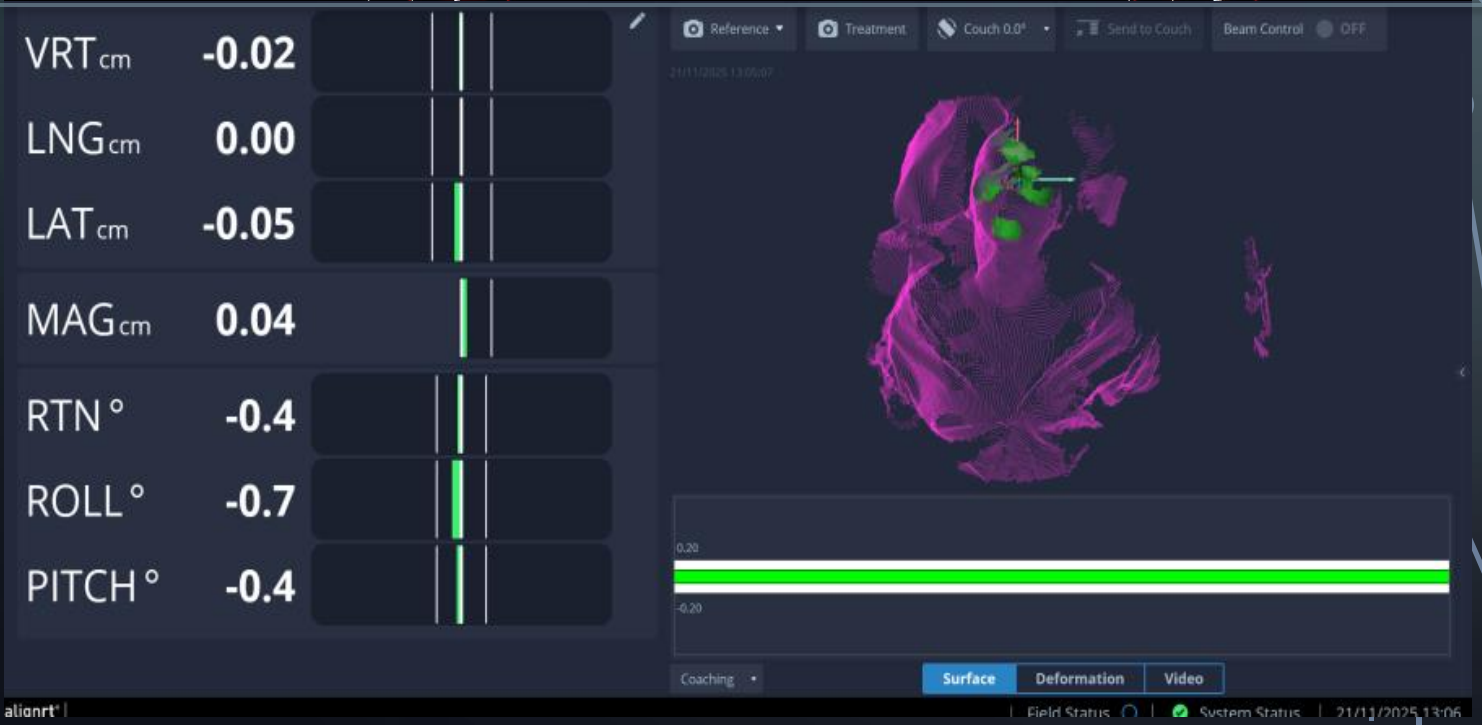


- No RTD's out of tolerance during treatment
- Vrt -0,01 Lng 0,04 Lat -0,01

PATIENT CASE 3

- 54 year old woman
- Met. Breast Cancer
- WBRT 5x 4 Gy
- Two Static Fields

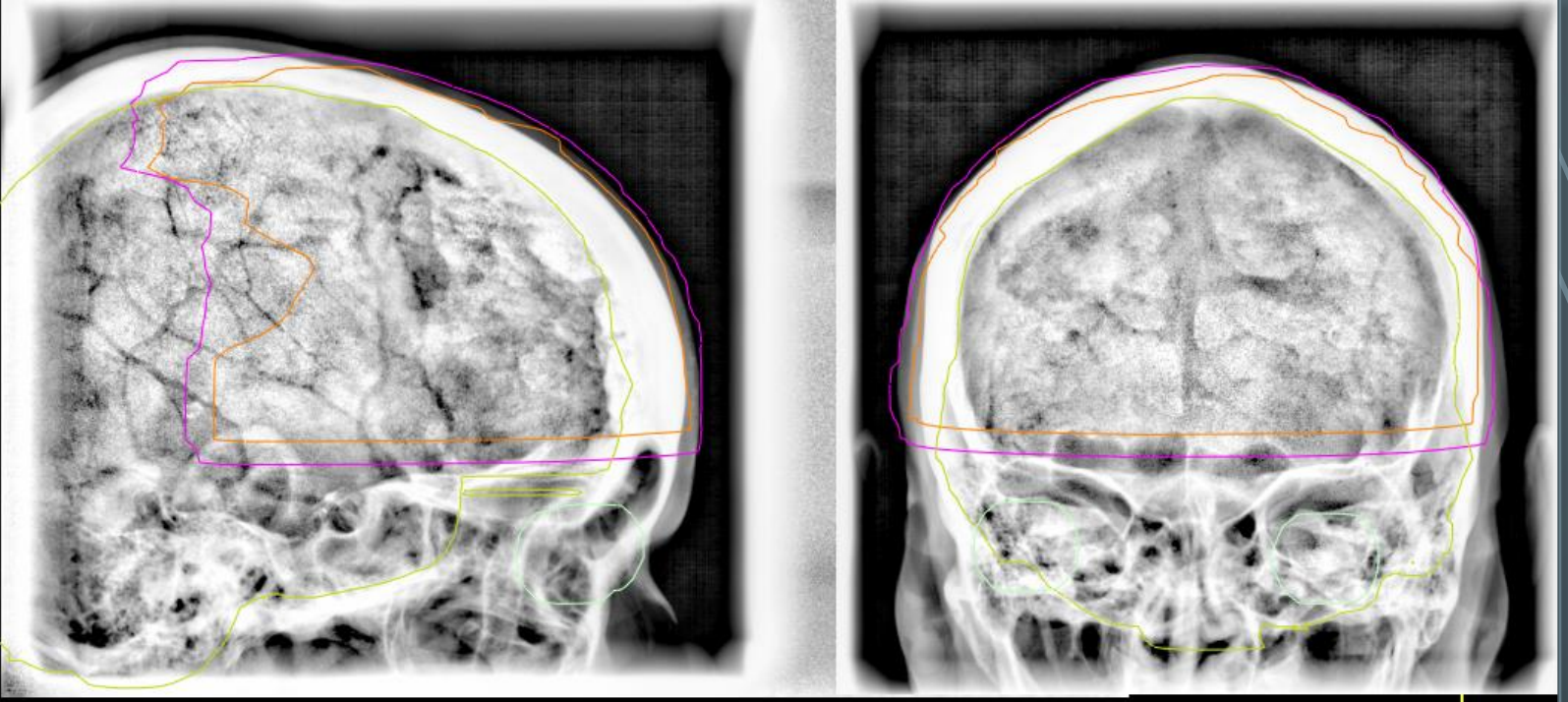


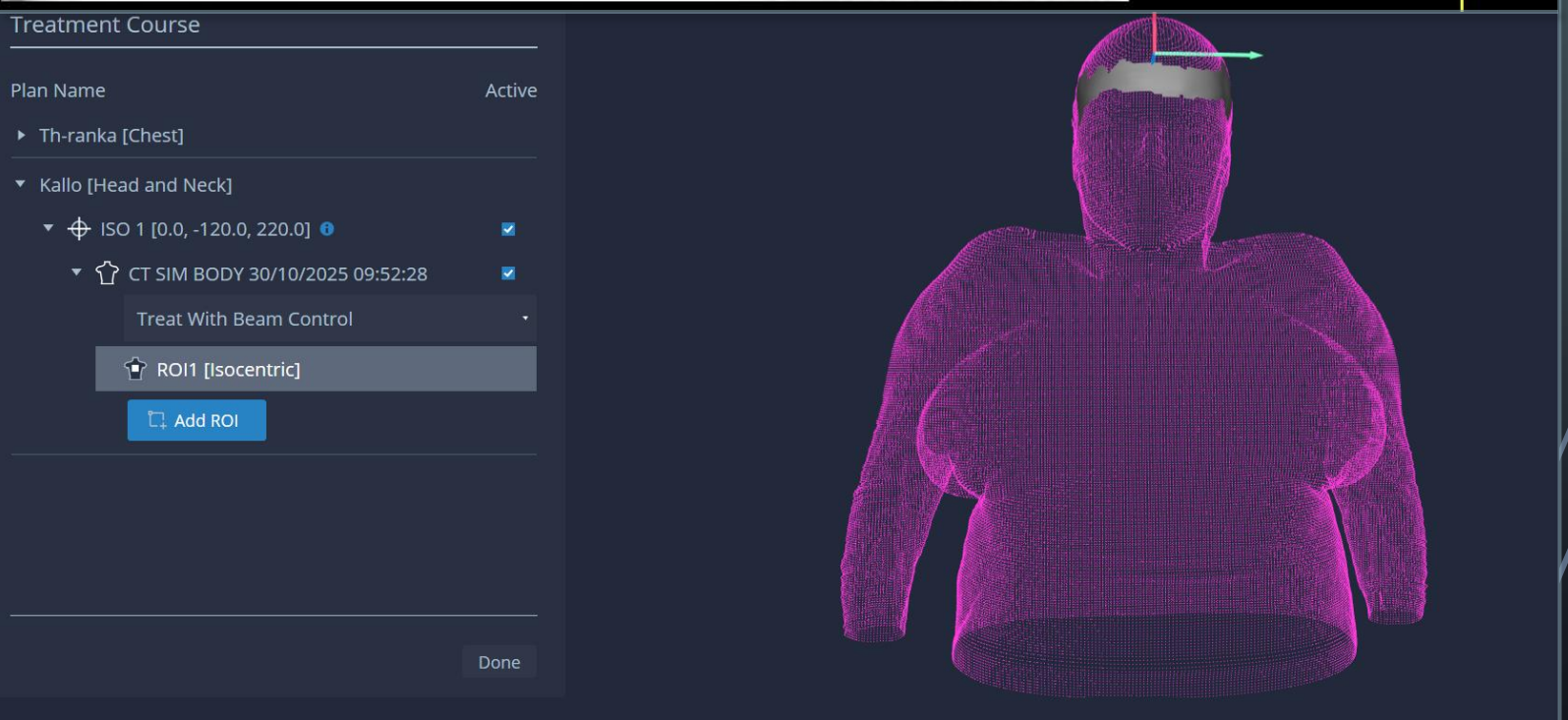


- No RTD's out of tolerance
- Vrt -0,01 Lng 0,04 Lat -0,01

PATIENT CASE 4

- 60 year old woman
- Met. Breast Cancer
- Frontal Skull 5x 4 Gy
- Two VMAT Field's





- No RTD's out of tolerance during treatment

- Vrt -0,02 Lng -0,06 Lat 0,08

PATIENT CASE 5

- 57 year old woman
- Met. Breast Cancer
- Multiple brain met. 3x 6 Gy
- Two VMAT Field's

- No RTD's out of tolerance during treatment
- but Center Couch messed up things!

- Vrt -0,09 Lng -0,16 Lat -0,07

PRO'S AND CON'S

PRO'S

- Cost effective
- Fast at SimCT
- Patient friendly

CON'S

- Positioning can be little trickier
- Perfect ROI is still figuring itself out
- SGRT camera's sometimes get blocked, but It's easily tackled

FUTURE PLANS

- Adaptation with the stereotactic table to ease the positioning of the shoulders and enabling more demanding plans


Sammutin
oven takana
trueBEAM