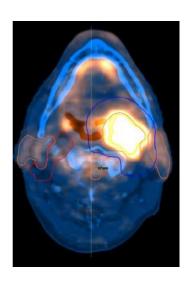
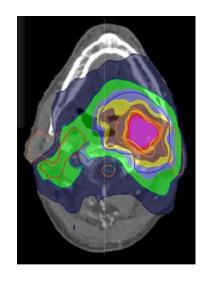
Master thesis, radiotherapy

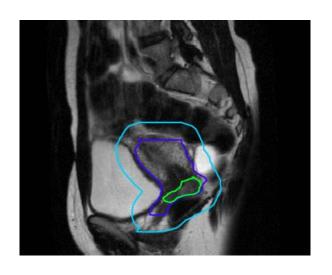
Taran Paulsen Hellebust, Associate Professor Ingerid Skjei Knudtsen, Post doc







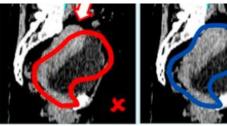
Consequences of organ motion during radiotherapy

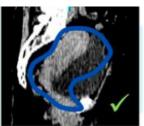


- MRI each week of RT
- Impact of changes in bladder and bowel filling on position changes of uterus

Thanks to Ina Scultz, Utrecht **Medical Centre**







Cone Beam CT (CBCT)

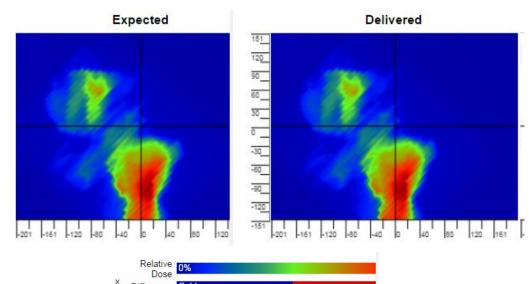
Master thesis: Analyze CBCT-data from 30 patients with cervical cancer





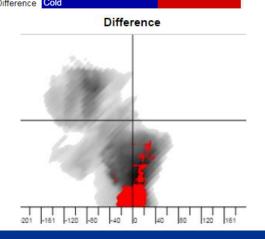
An Automated Exit Patient QA Solution Using EPID





Master thesis:

- Analyze what changes are we able to detect (e.g. simulate changes in a phantom)
- Analyze data from many patients

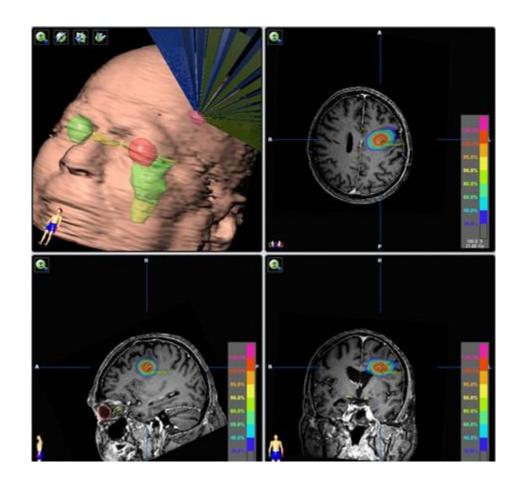




Stereotactic radiotherapy

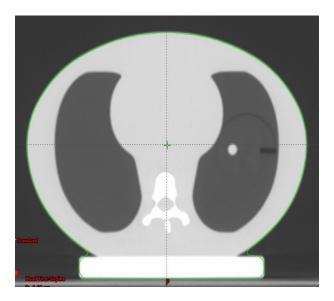
- Until now we use stereotactic radiotherapy for up to four small tumors in the brain
- New features in the treatment planning software
- Master thesis:

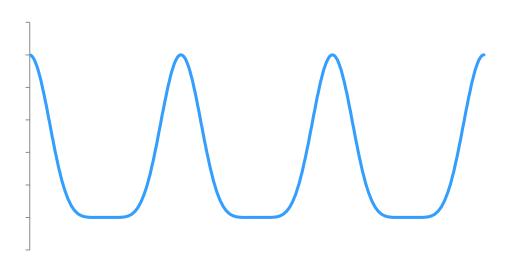
 How can these new
 features be used to treat
 more that five tumors?



Firedimensjonal CT for stråleterapi







FANTOM MED LUNGETUMOR

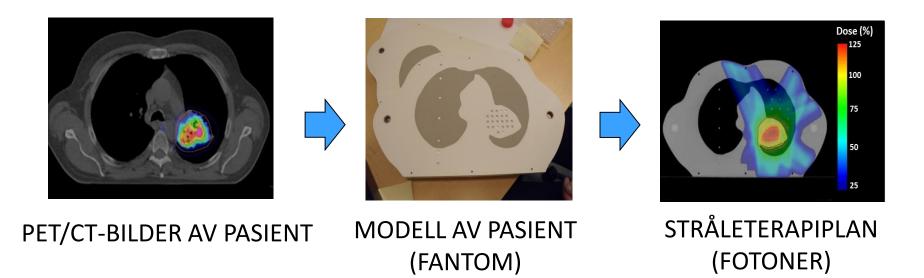
RESPIRASJONSKURVE

Masteroppgave: Hvor godt samsvarer den firedimensjonale CT-en med faktisk pustebevegelse? Optimalisering av bildeprotokoll for stråleterapi.





Dosefordeling ved protonterapi



Masteroppgave:

Hvor sensitiv er dosefordelingen for forflytninger? Innebærer både beregninger og målinger (Skandionklinikken i Sverige)



