Versa HD Presentation (12-16-2020)

# Presenters

* Nick Callea
* Nick Brusca

# Versa Overview

The Versa HD is Elekta’s “main” linac; it is known for its SRS and SBRT capabilities.

Intrafraction imaging allows taking CBCT between beams. Evaluate the image before shooting the next beam to ensure that patient hasn’t moved. Make shifts if necessary.

# Our Primary Concerns

* What would be the advantage of a Versa over our current Synergy and Infinity with Agility and an SRS cone system?

This would involve some interface software purchases from Elekta, and we would have to enter the cone as a treatment device in machine characterization in MOSAIQ.

* Should we replace our Synergy with a TrueBeam or a Versa?
* Should we replace our Tomo with Radixact, Halcyon, or Harmony?
* Does Versa bring any improvements in kV imaging speed or workflow?

Our current 2D workflow involved acquiring the images in XVI, exporting to MOSAIQ, and registering in MOSAIQ. This workflow is better in Varian because Varian chose to focus on improving kV imaging while Elekta chose to focus on CBCT. MOSAIQ 3.0 does revamp the 2D image workflow, but this won’t change anything for image acquisition.

* Does Elekta offer anything similar to HyperArc?

HyperArc is 4π RT, which allows you to move gantry and table simultaneously both clockwise and countercloockwise, so you only need one (complicated) field. On Elekta, you can rotate the couch from outside the room between fields, but this obviously not the same thing.

* Does Elekta offer anything for dynamic collimator angle?

# Evaluation

Versa doesn’t seem to offer anything that we can’t get via upgrades to our current linacs and to MOSAIQ.

# Next Steps

Schedule a presentation on MOSAIQ 3.0. This may even include a preview of the improved images in MOSAIQ 3.0.

Schedule a training with Shane on “simultaneous” AP MVCT and lat kV acquisition and registration.

Nick will ask the appropriate individuals about:

* RayStation’s support for fusing imported 4DCT phases acquired at the machine
* Log-based QA
* 4π RT
* Dynamic collimator