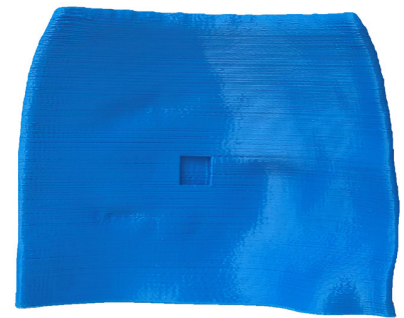


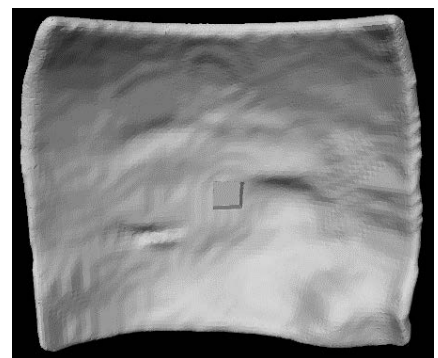
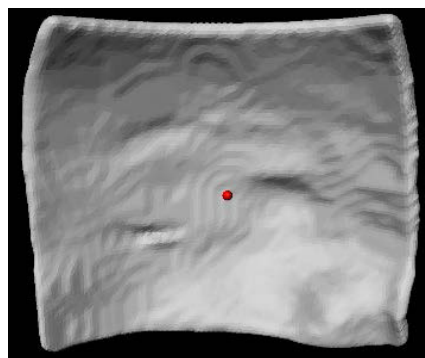
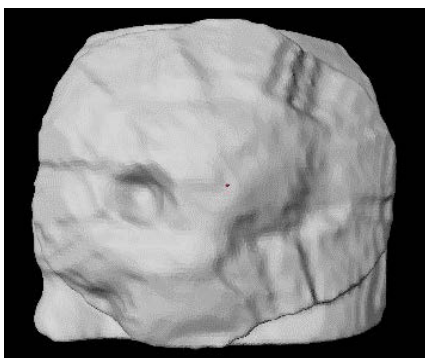
In Vivo Dosimetry

Adaptiiv's software solution lets users add dosimeter pockets directly within a bolus for real-time dose measurement. Appropriately-sized caps fill the printed pockets when dosimeters are not in use.



Clinical Benefits

- In vivo dosimetry (IVD) use in external beam radiotherapy (EBRT) helps identify potential errors in dose calculation, data transfer, dose delivery, patient setup, and changes in patient anatomy.
- IVD enables real-time recording of the dose received in points of treatment predefined anywhere on the bolus surface.
- Compatibility with the treatment planning system allows for reference points made in the TPS to populate the list of available dosimeter types.
- Custom-sized dosimeter pockets are added to the accessory and configured specifically to the dosimeters used.
- Pocket caps are printed and can be placed into the pockets when the dosimeter is not being used during treatment.



The in vivo dosimeter marker (red) was placed on a modulated electron bolus in Adaptiiv's software. The bolus model with an in vivo dosimeter pocket is generated. The pocket is configured to any size and shape of the dosimeter.



“We 3D printed, then scanned the bolus on the patient. The bolus fit very well and the dosimetry was excellent, especially with regard to 90% dose conformity. All are pleased, including our Radiation Oncologist, Medical Physicist and Radiation Therapists involved. A plan like this wouldn't be possible any other way.”

**Nova Scotia Health
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