

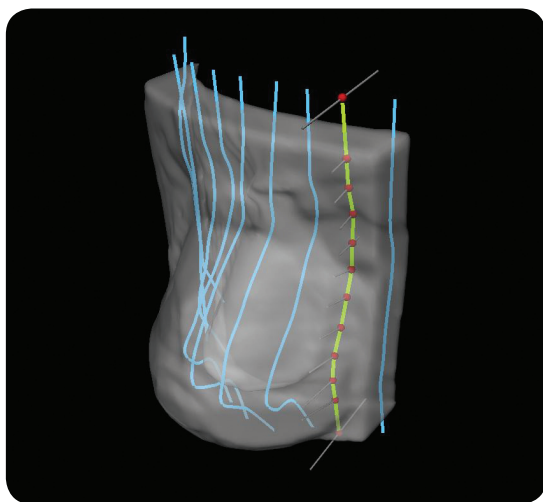
# Brachytherapy Applicator

Allows users to create patient specific applicators that have hollow catheter trajectories printed directly into the structure. This highly customizable surface applicator provides a superior dose distribution compared to other common techniques.

## Key Benefits

- Software functions enable the user to create customizable catheter trajectories that are specific to the patient's anatomy and treatment plan
- Replaces the need for expensive applicators
- Software optimization eliminates the need for labor intensive fabrication methods
- Conformal fit provides better comfort for the patient
- Users can import the new applicator design back into the brachytherapy treatment planning system to conduct dose re-calculations

NEW!



Adaptiv is ISO 13485 certified, has received a CE Mark and is FDA 510k cleared to market 3D Bolus Software in the U.S.

  
ADAPTIV  
FORMERLY 3D BOLUS

  
Radiotherapy

## Clinical Benefits

	Radiation Oncologist	Medical Physicist	Radiation Therapist / Dosimetrist	Administrator
<b>Patient Consult</b>	Offer a new, more accurate treatment technique during consult.			
<b>CT Imaging</b>				No fabrication in CT suite.
<b>Treatment Planning</b>	Source distances can be optimized to treat tumour and spare OARs.	Source distances can be optimized to treat tumour and spare OARs.	Source distances can be optimized to treat tumour and spare OARs.	
<b>Plan Quality Assurance</b>		Provide rigorous methods for pre-Tx QA of applicator and placement on patient (CT, CBCT).	Provide rigorous methods for pre-Tx QA of applicator and placement on patient (CT, CBCT).	
<b>Applicator Fabrication</b>	Time efficient–increased throughput and capacity.	Decreased labour requirements. Improved accuracy of fabrication.	Decreased labor requirements. Improved accuracy of fabrication.	Improved efficiency. Increased throughput. Cost savings.
<b>Treatment Delivery</b>	Improved accuracy of dose delivery to surface, ability to adapt applicator during treatment course.		Improved accuracy of dose delivery to surface, ability to adapt applicator during treatment course.	

### Our Clients Make the Case

**A leading UK Cancer Center shared the following excerpt with us outlining the business case they made when deciding to proceed with Adaptiiv's solution.**

“Very superficial treatments can be given by positioning a radioactive source close to the skin. For complex surface shapes, this is often the best solution. Catheters through which the radioactive source travels are mounted close to the skin over a treatment area. The brachytherapy HDR source is used to irradiate the area.

The catheters must be mounted at a uniform distance from the surface, and with uniform spacing between them. This is achieved by taking an impression of the patient surface and manufacturing a wax mould that conforms to the surface. During manufacture of the mould, plastic catheters are mounted within the wax.

Many of the limitations of using wax are as described for complex surface bolus, though even worse in these cases due to added complexity of embedding the catheters.

Manufacture is extremely time consuming and can be done by only the most experienced staff.

We have very few staff capable of producing these moulds which represents a considerable risk to the service. Developing the skills in new staff would be very difficult due to the small numbers and reduction in the use of moulds for other applications.

Due to the opacity of the wax, it can be difficult to verify both the distance from the surface and the spacing between catheters. It is also possible to create curvatures of the catheters that are too tight, resulting in an unusable mould. In such cases, another attempt at producing an acceptable mould would be made, possibly resulting in delay of the patient treatment.

The commercial software is expected to address all of these problems, and should increase our capacity to use surface brachytherapy. At present, this is the only commercially available solution.”

– TESTIMONIAL FROM ADAPTIIV CLIENT

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