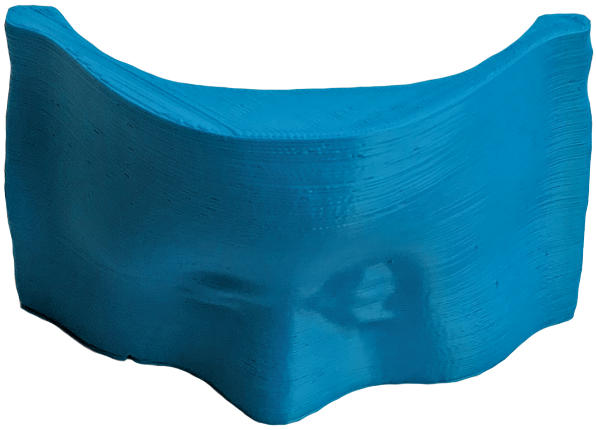
Modulated Electron Bolus

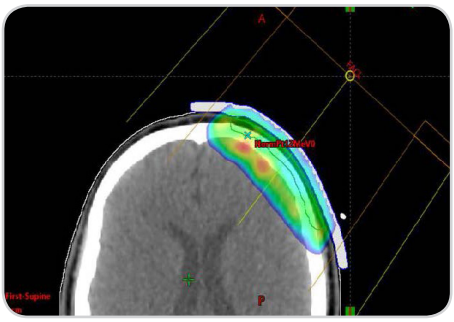
A custom, optimized bolus design that provides modulation of the electron beam to conform the prescription isodose to the PTV, sparing the underlying normal tissues.

Key Benefits

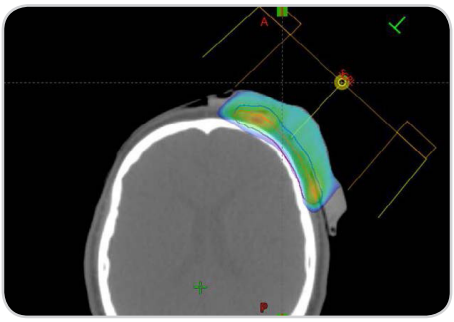
- Optimized bolus design allows for tailoring of the dose distribution while maintaining conformal fit to the patient's anatomy
- Conforms the high dose area to the tumor volume while sparing healthy tissues
- Software integrates with the Treatment Planning System to allow the import and export of optimized bolus structures via DICOM exchange
- Algorithms lower the presence of hot spots and provide a homogeneous dose distribution
- Generates the custom bolus design in under 2 minutes allowing users to optimize their planning process
- Improved comfort for the patient

NEW!





Standard electron field with uniform thickness bolus.



Same electron field (as left image) with modulated electron bolus, as designed by Adaptiiv software.

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

– Nova Scotia Health Authority

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FORMERLY 3D BOLUS

CIVCO Radiotherapy

Clinical Benefits

	Radiation Oncologist	Medical Physicist	Radiation Therapist / Dosimetrist	Administrator
Patient Consult	Offer a new, more accurate treatment technique during consult.			
Patient Setup Prior to Imaging			Eliminate manual fabrication of bolus.	
CT Imaging				Eliminate fabrication in CT suite to increase capacity.
Treatment Planning	Fit of bolus reflected in CT will be the same as on treatment unit.	Fit of bolus reflected in CT will be the same as on treatment unit.	Fit of bolus reflected in CT will be the same as on treatment unit.	
Plan Quality Assurance		Rigorous methods for pre-treatment QA of bolus and placement on patient (CT, CBCT).	Rigorous methods for pre-treatment QA of bolus and placement on patient (CT, CBCT).	
Bolus Fabrication			Decrease labour requirements and improve accuracy of fabrication.	Apply complex billing code for device.
Patient Setup at Tx Unit	Decreased set-up time.		Reduces variability in set up time.	Improved efficiency and increased throughput.
Treatment Delivery	Improved accuracy of dose delivery to surface and ability to adapt bolus during treatment course.		Improved accuracy of dose delivery to surface and ability to adapt bolus during treatment course.	

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

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CIVCO® Radiotherapy