

TrueFit Bolus Product Brochure

A patient-specific, smooth and semi-rigid bolus used in EBRT that improves patient comfort, minimizes air gaps, and overcomes the skin-sparing effects inherent to high energy photons and electrons.

Adaptiiv's 3D Bolus software generates a uniform thickness or modulated electron bolus using a bolus structure from the TPS that is 3D printed using HP MJF printing technology. Each TrueFit bolus is quality assured by HP to ensure it passes minimum tolerance criteria required to provide optimal treatment.



“Adaptiiv has enabled us to confidently tackle situations where we would normally struggle to apply bolus. The benefit has already been seen in reduced setup times, improved patient comfort, and reproducibility. **The ability to print the precise bolus required for electrons or photons is a powerful tool in an RT department.**”

Ciaran Malone, Medical Physicist
SAINT LUKE'S RADIATION ONCOLOGY NETWORK
Dublin, Ireland

TrueFit Bolus

Each TrueFit bolus is 3D printed with Ultrasint® TPU01 powder using HP MJF technology. TrueFit bolus can be ordered through Adaptiiv On Demand using either the Simple Bolus or Modulated Electron Bolus software modules.

Key Benefits



Clinical Precision

Algorithms automatically generate a customized design that reduces air gaps, allowing precise dose distribution to the target area while sparing healthy tissues.



Financially Viable

Adaptiiv On Demand is a pay-per-use service with no upfront costs or budget requirement. CPT reimbursement is available.



Access to Personalized Care

A customized bolus offers a patient-specific fit for easier bolus placement, increased conformity to patient anatomy, and improved comfort.



Operational Efficiency

Adaptiiv software can generate a customized bolus mould in a few minutes. The customized design of the bolus allows for faster patient setup and an overall reduction in treatment unit time.

27%

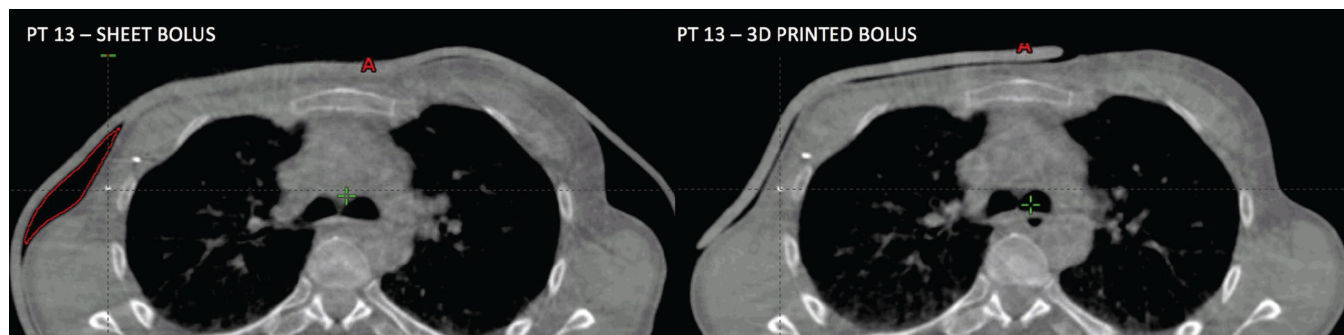
reduction in treatment unit time compared to conventional bolus set up.¹

\$800

in approximate resource time savings compared to fabrication of a wax bolus.

57%

reduction in frequency of air gaps sized 5 mm or greater.²



Examples of the differences in accuracy of fit between standard sheet bolus (left) and 3D printed bolus (right) for patients with convexity or concavity.³

^{1,2,3} Robar, et al (2017). Inpatient study comparing 3D printed bolus versus standard vinyl gel sheet bolus for post-mastectomy chest wall radiation therapy. Practical Radiation Oncology, 8(4), 221-229. <https://doi.org/10.1016/j.prro.2017.12.008>