

Enhanced HDR Surface Brachytherapy v3.0

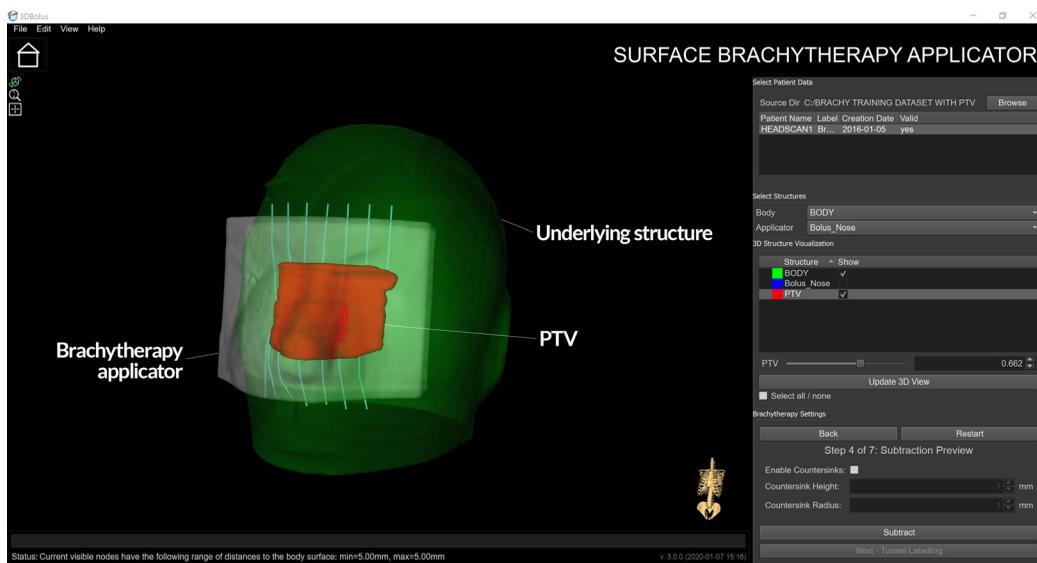
Adaptiiv’s 3D printing software solution enables cancer centers to quickly and confidently create patient-specific applicators that provide a superior dose distribution compared to other existing methods.

Version 3.0 of the HDR surface brachytherapy module includes numerous enhancements to tunnel generation, 3D structure visualization, and customization options to ensure the applicator you create meets the needs of the planned treatment.

New Features in v3.0

3D Structure Visualization

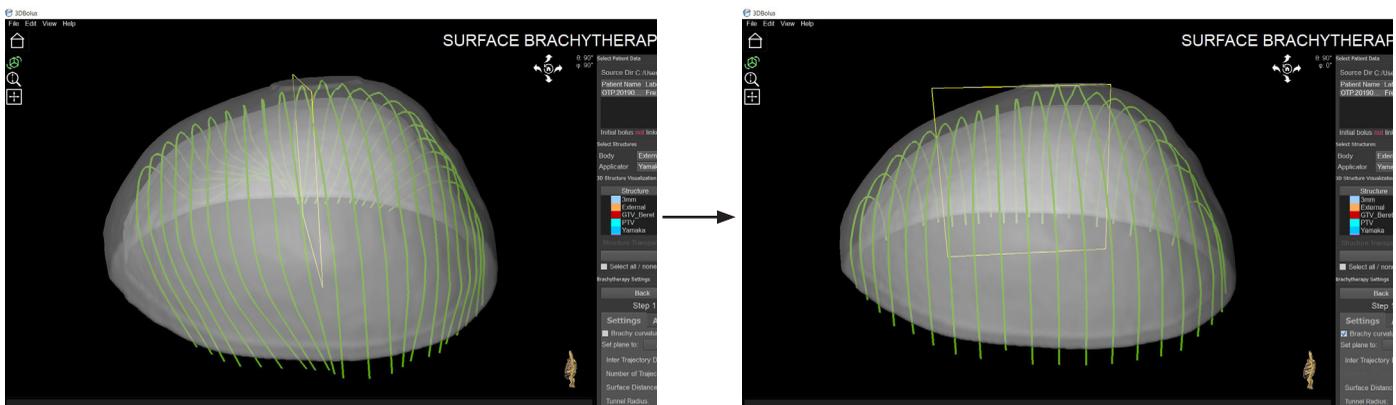
- Users can now visualize RT structures in 3D view, allowing them to see the PTV and OARs (or other underlying structures) at any transparency level when planning and creating custom brachytherapy tunnels.



A 3D view of a brachytherapy applicator, PTV (in red), and underlying structures.

Brachytherapy Curvature Mode

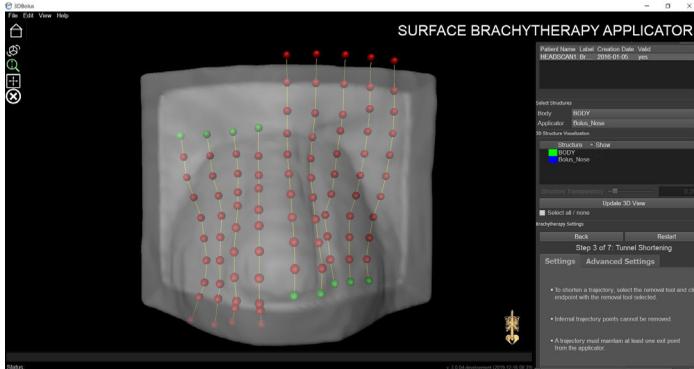
- Useful when dealing with complicated anatomy that has a double curvature, such as a scalp. Simply activate the curvature mode and the advanced algorithm will accommodate for more complex cases.



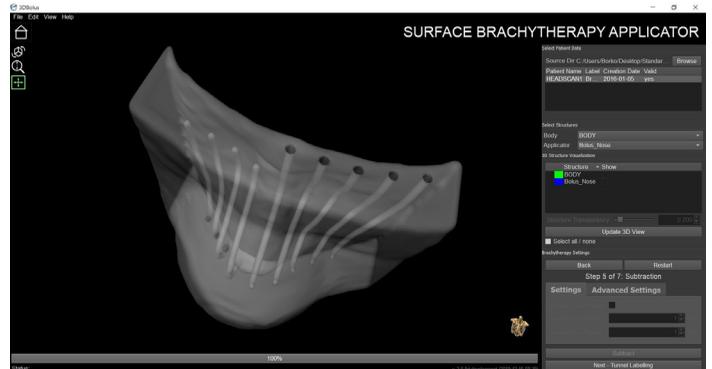
Catheter tunnel trajectories with small curvature radius can be smoothed or straightened by enabling the 'curvature mode'.

Trajectory Shortening

- Users can shorten and stop any tunnel as needed. Simply click on the green node at the end of each trajectory and continue to do so until satisfied.



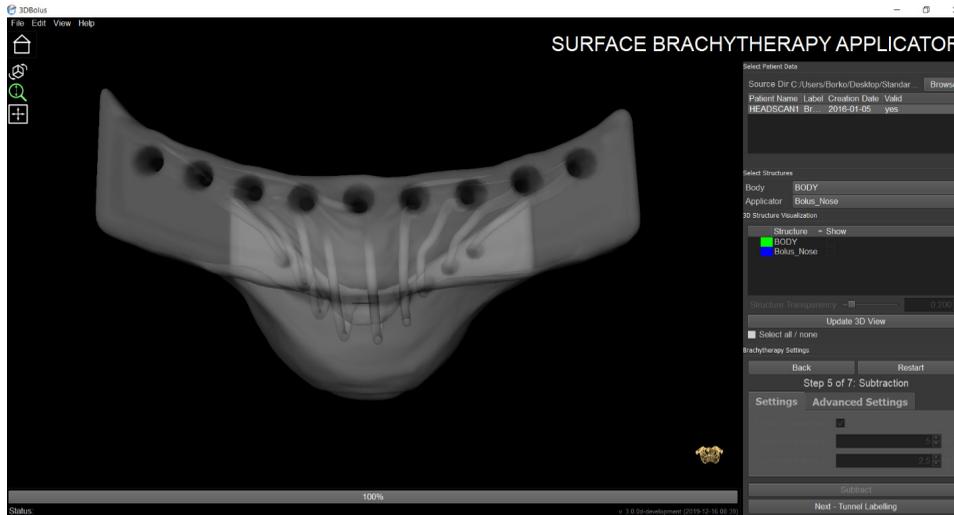
Node removal process shown in Adaptiiv software.



Trajectories are generated after selected nodes have been shortened.

Tunnel Countersinks

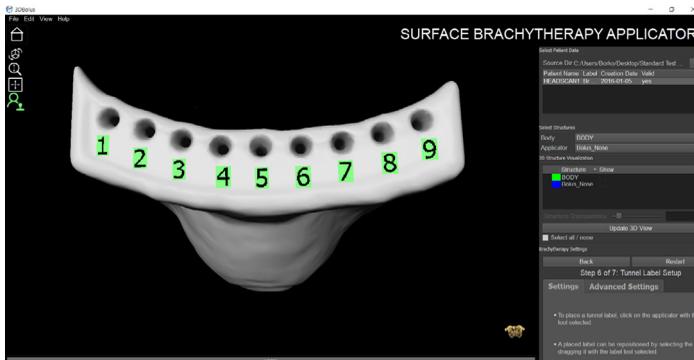
- Users can now add countersinks to the ends of each tunnel, where the height and radius can be manually adjusted. Adding countersinks to the ends of trajectories softens the tunnel entry and exit points for easier catheter placement.



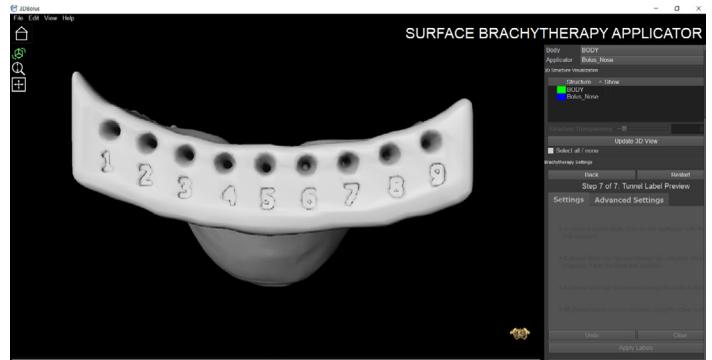
Countersinks at the ends of each tunnel have been generated.

Tunnel Labels

- Click anywhere on the applicator to place tunnel labels. Users can move or delete labels as required. Each label will be printed directly in the applicator to aid in catheter placement.



A preview of where tunnel labels have been placed on the applicator.



Tunnel labels shown printed directly in the applicator.