Electron Bolus Creation

🔧 Fix Me!

A user is able to add an electron bolus to their beams to aid in proper distribution of dose.

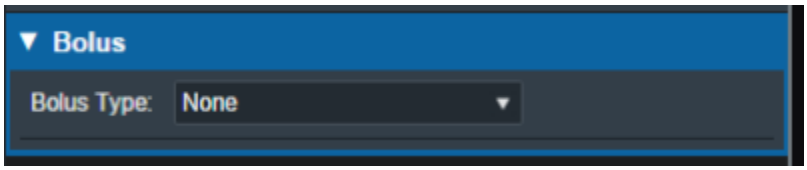


Fig. 1: Beams Block

There are four options for boluses in the electronRT app as defined below:

Optimized Thickness Bolus

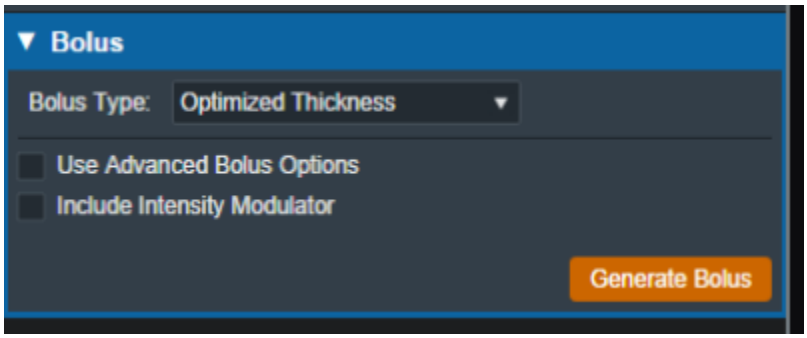


Fig. 2: Beams Block

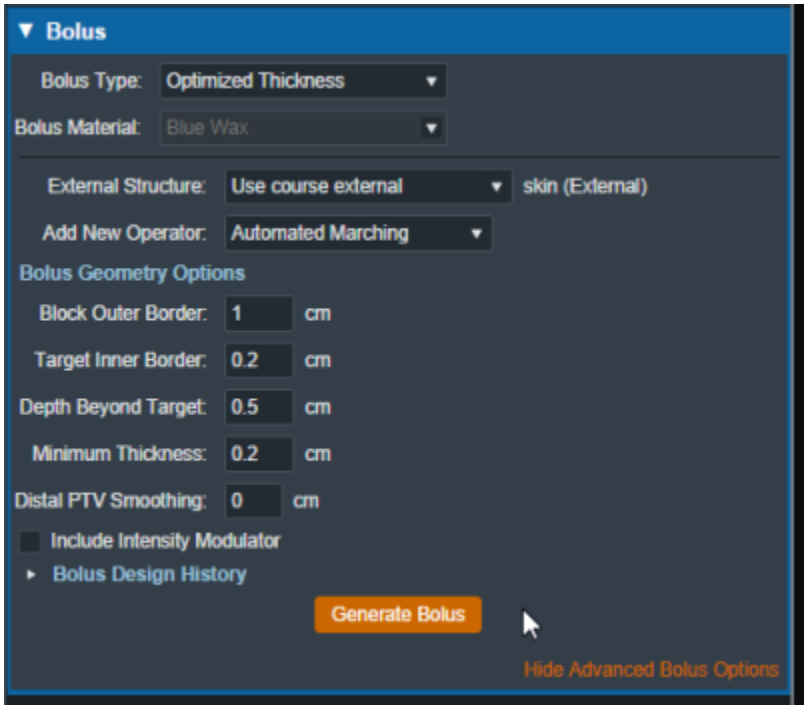


Fig. 4: Beams Block

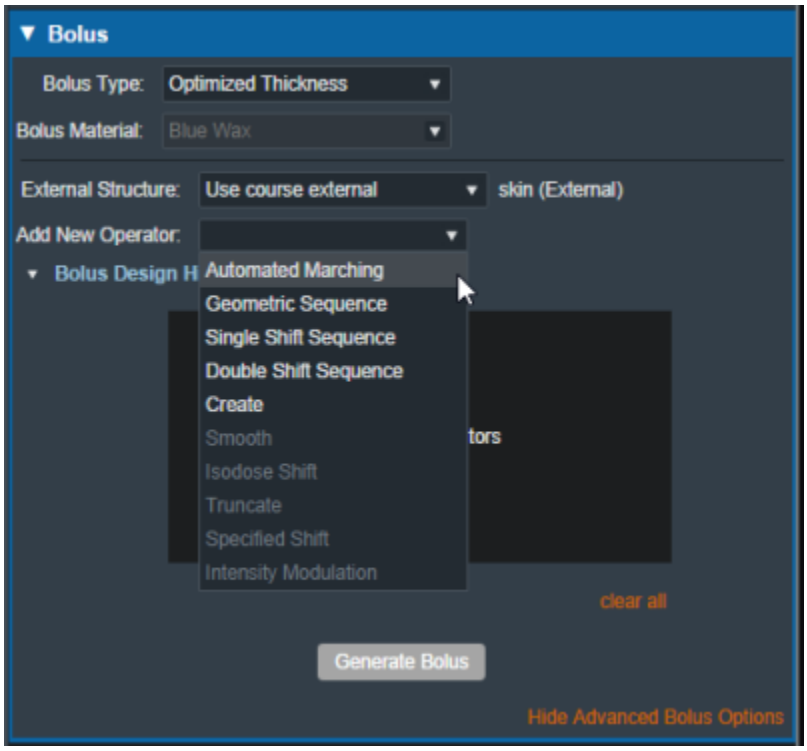


Fig. 3: Beams Block

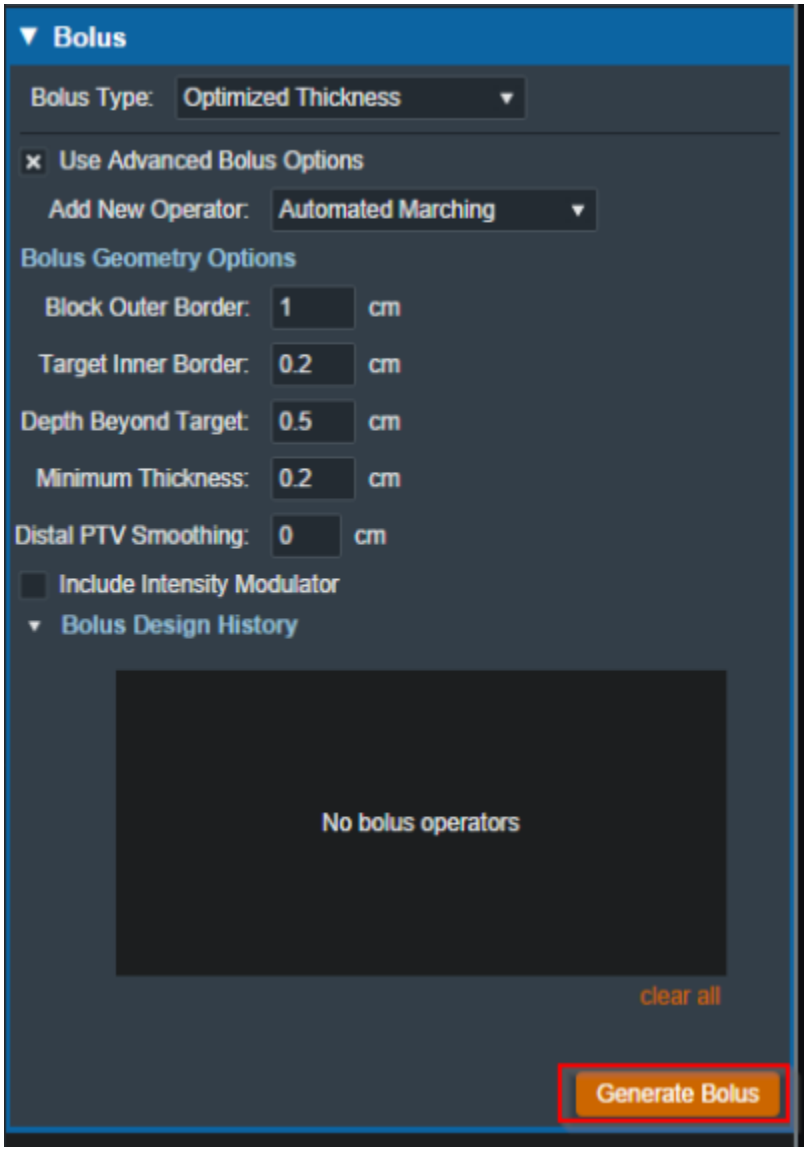


Fig. ##: Beams Block

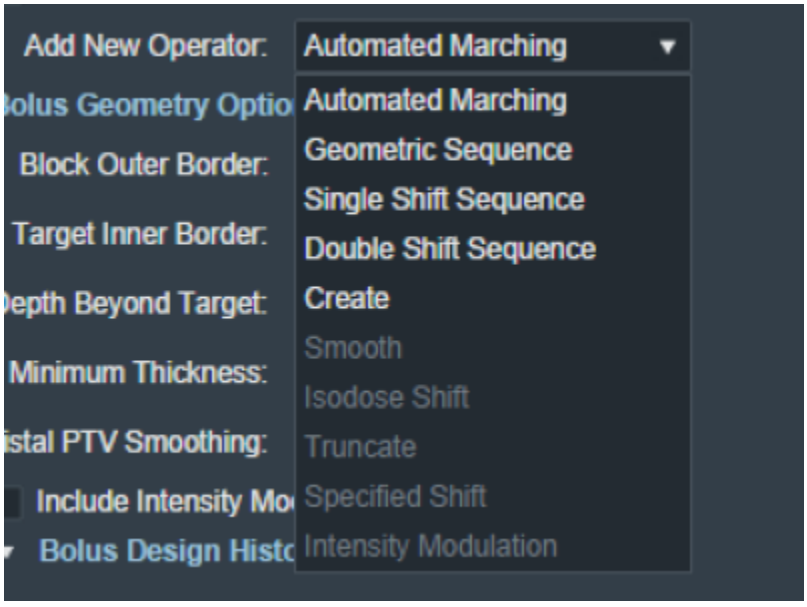


Fig. ##: Beams Block

Fig. 5: Beams Block

Uniform Thickness Bolus

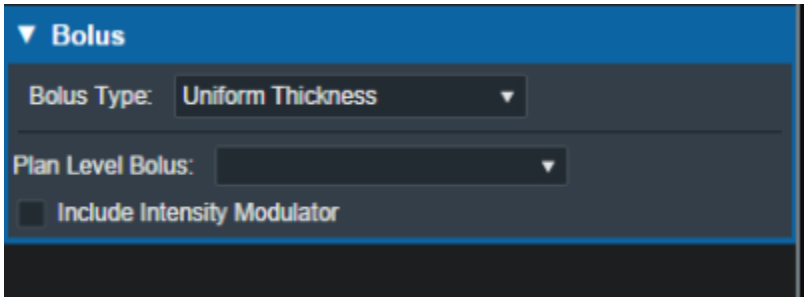


Fig. 8: Beams Block

Bolus as a Structure

The user also has the option to instead include a bolus as a separate structure in the structure list. Once the option is chosen the user will be able to find the bolus structure from the drop down structure list and the app will set it as the bolus for this beam.

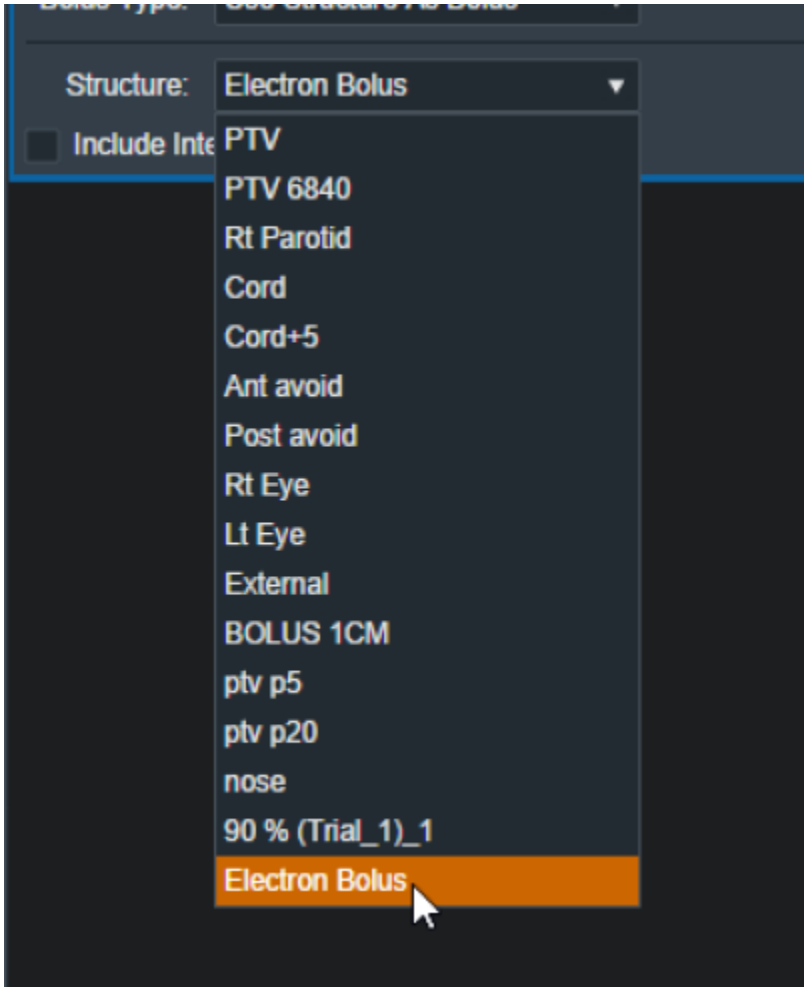


Fig. 9: selecting from the structure list

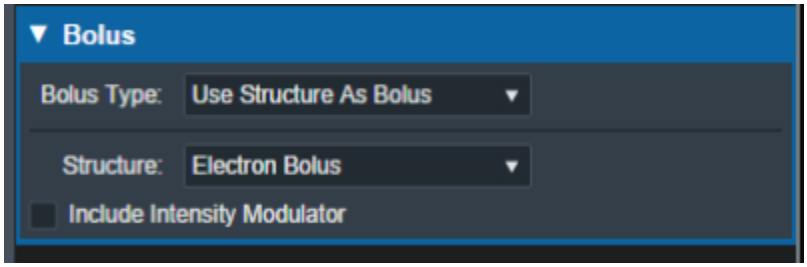


Fig. 10: selecting a Bolus as a structure

Once the structure is selected the bolus will be added to this beam and dose re-calculated as expected.

Note: The bolus is displayed in the BEV for this beam even though the “Electron Bolus” structure is hidden through the right hand side controls. This shows that the displayed bolus is added as a bolus on this beam and not appearing as a structure.

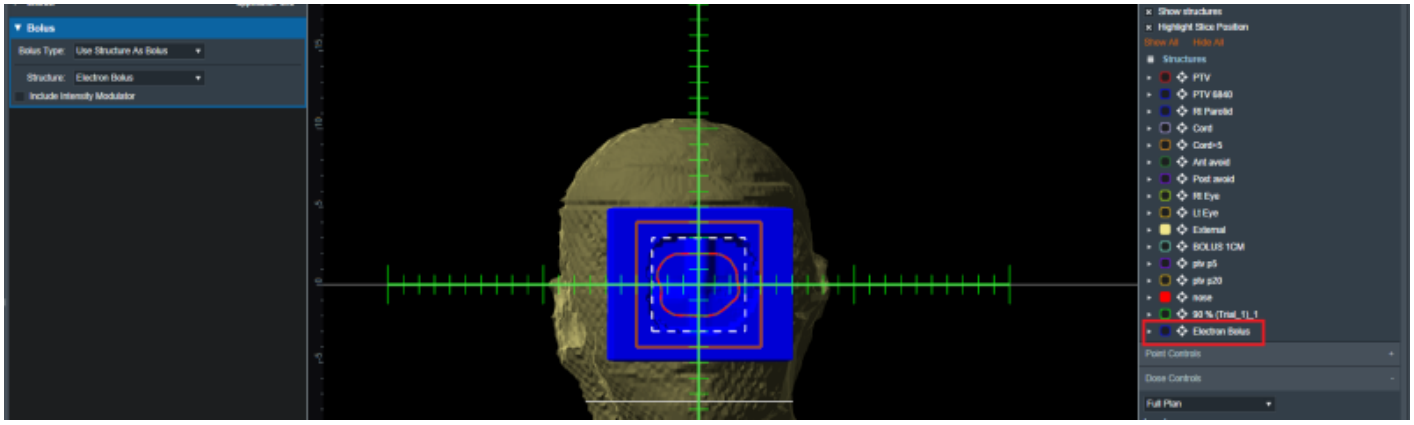


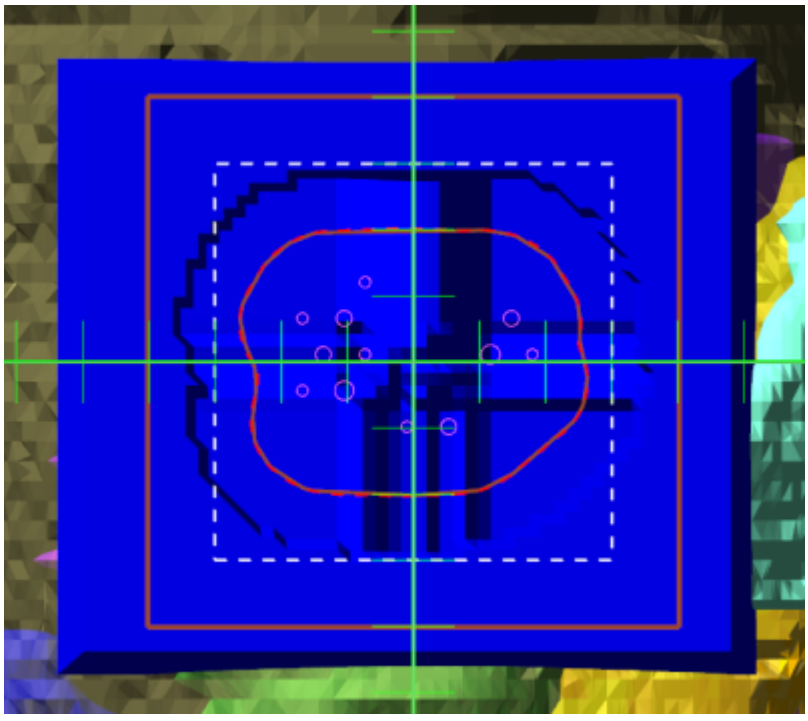
Fig. 11: Bolus in BEV

If you with to import a bolus that is not currently in your structure list please refer to the DICOM Patient Import section of the user guide for how to re-import a structure set.

IMET Device

Additionally if any type of bolus is added to a beam the user is able to also include an intensity Modulator by siply selecting the option below any bolus type. The application with calculate the device and display it in the beams UI.

NOTE: In order to add an IMET device the selected beam MUST have a valid bolus first.



And as with a bolus the device can be hidden and un-hidden from the display using the beam controls on the right hand size.