Patient Geometry

The Patient Geometry block allows the user to add points or edit points in the treatment plan. The user may also create uniform thickness boluses that can be used by beams in the plan.

Points

After choosing to add or edit a point, the user will be able to the edit the label, type (POI, localization, or dose reference), color, and description of the point. The geometric position of the point can be determined in one of two ways: as the center of a structure or as an explicit location. The Center option allows the user to set the point's position to the center of a structure selected from the structure set.

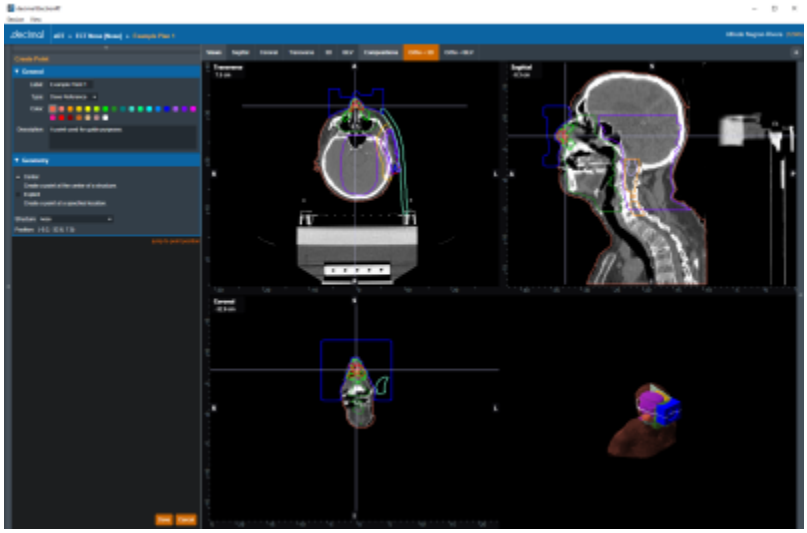

Fig. 1: Creating a Center Point

The Explicit option allows the user to set the XYZ coordinates or simply click on the CT image display to specify the point's position.

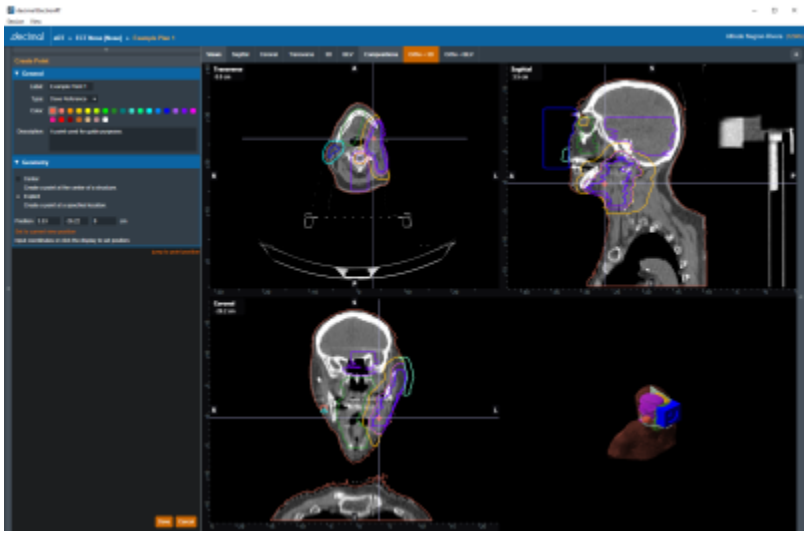

Fig. 2: Creating an Explicit Point

Uniform Thickness Boluses

The user has the option to add or edit uniform thickness boluses within the Patient Geometry block. When creating the bolus, the user can set the thickness and the reference structure. The shape of the bolus will be influenced by the selected structure (e.g. if the bolus will be placed on the patient's skin, the user should select the structure that corresponds to the patient's skin). After selecting the structure, the user must specify the geometric extents of the bolus in each dimension. The user can either edit the coordinates of the extents directly or simply drag the sides of the extents box shown in the CT image display.

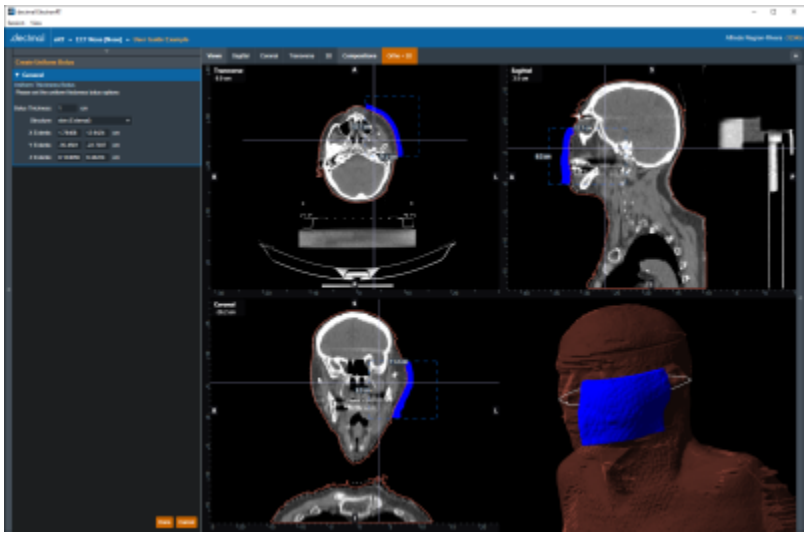

Fig. 3: Creating a Uniform Thickness Bolus