

## Data Set for Dose Algorithm Verification in Head & Neck Phantoms for Bolus Electron Conformal Therapy

### Description of Data Files

#### **Retromolar Trigone Bolus Data:**

1. Retromolar\_CT.zip – This zip file contains the DICOM CT scan of the retromolar trigone phantom with bolus
2. Retromolar\_Measured\_Data.dat – This is a text file containing the position and dose for each of the 46 measurement points. The format is as follows: X-coordinate Y-coordinate Dose. The XY coordinates are given relative to isocenter. In CT coordinates, the isocenter is
3. Retromolar\_Measured\_Data.jpg – This image is a contour plot of the central-axis CT slice overlaid with the measured data described in #2.

#### **Nose Bolus Data:**

1. Nose\_CT.zip – This zip file contains the DICOM CT scan of the retromolar trigone phantom with bolus
2. Nose\_Measured\_Data.dat – This is a text file containing the position and dose for each of the 57 measurement points. The format is as follows: X-coordinate Y-coordinate Dose. The XY coordinates are given relative to isocenter. In CT coordinates, the isocenter is
3. Nose\_Measured\_Data.jpg – This image is a contour plot of the central-axis CT slice overlaid with the measured data described in #2.

#### **Beam Data:**

1. 16MeV\_Beam\_Table.dat – This text files contains the beam data for the 16 MeV beam on the Mary Bird Perkins Varian Clinac 4/10 used to obtain the measured data. The beam data consists of depth dose curves for a range of field sizes. It also contains beam information such as  $E_{p,0}$  and  $\sigma_{\theta,x}$ .