Dose Calculation Algorithms

Overview

The decimal eRT software application uses the Pencil Beam Redefinition Algorithm (PBRA) as primary means of computing electron beam dose. This is a semi-analytical model that combines pencil beam theory with a localized electron transport process to create a fast and accurate dose calculation. Many published references exist in the literature for this algorithm, including: 1. 🔧 **Fix Me!** REFERENCE 1 2. 🔧 **Fix Me!** REFERENCE 2 3. 🔧 **Fix Me!** REFERENCE 3

While the PBRA is well described in the literature, as shown above, a basic description is also provided herein, to allow users to develop a more complete understanding of the eRT software and the commissioning data it uses.

Pencil Beam Redefinition Algorithm

🔧 **Fix Me!** Details of the PBRA here