

MuCheck New Version 6.0!!

New Features

- Easier to use interface. One screen with BEV always visible.
- Beams previously calculated display in list at bottom of screen.
- Conventional and IMRT beams in same plan.
- Improved print output.
- Improved Patient database.
- Irregular shaped fields can be drawn with mouse and Eq. Sq. calculated.
- Electron cutouts can be drawn and output factors calculated on the fly.
- New physics setup Utility allows creation of new machines/beams using any CSV file format.

The screenshot displays the MuCheck software interface. At the top, it shows the window title 'MuCheck - [MuCheck]' and a menu bar with 'File', 'Utilities', and 'Tools'. The main interface is divided into several sections:

- Select Machine:** Includes dropdowns for 'Cancer Treatment Center' and 'Varian 2100EX', and a list of machines: CTC, Dattoli, Demo, Varian 21EX, Varian 2100EX, and Varian 21EX 39.
- Select Beam:** Set to '16 MV Photon'.
- Select Physician:** Set to 'doc name'.
- Patient Information:** Pat. ID: AH000000, Pat. Name: Test Patient, Beam Num: 6, Beam Desc: 6b lpo.
- Beam Modifiers:** Includes Transmission Factors (1.00 none, .979 solid tray), Wedges (Hard) (none), Orientation (none), EDW/Virt Wedges (none), Off Axis Wedge (Wedge View), and Off Axis Open (Off Axis).
- Field Diagram:** A central diagram showing a beam field with X1, X2, Y1, and Y2 jaws indicated.
- Input Fields:** Asym (X1: 5.5, X2: 6.2, Y1: 5.7, Y2: 6.2), Sym (Eq Sq: 11.7, 11.9), TPS MU (107.631), SSD cm (82.29), Ref. Depth (17.71), Eff. (17.71) cm, Dose (cGy) (32.22), Iso Line (100), Weight % (100), Collimator (180), Gantry (120), Table (0), TX Area (Options, MLC, Irreg).
- Monitor Units:** 107.07, % Diff: 0.52.
- Buttons:** Calc, Next Beam, New Patient, Print, Save.
- Output Summary:** Off Axis (X: 0, Y: 0) cm, TPS Dose (32.22) cGy, Calc'd Dose (32.39) cGy, Magnify (M) 3, Segment Analyzer, Show Composite.
- Table:** A table listing calculated beams with columns: Beam Desc, Beam Num, X1, X2, Y1, Y2, SSD, Depth, Eff depth, Segments, TPS Dose, Dose, TPS MU, MU, % Diff.

Beam Desc	Beam Num	X1	X2	Y1	Y2	SSD	Depth	Eff depth	Segments	TPS Dose	Dose	TPS MU	MU	% Diff
1b lpo	1	5.8	5.5	5.7	6.2	82.29	17.71	17.71	320	31.03	30.93	89.0408	89.33	-0.32
2b rt lat	2	5.2	5.5	5.7	5.7	83.3	16.70	16.70	320	30.97	31.09	93.9332	93.57	0.39
3b rao	3	6.8	5.2	5.7	5.7	89.42	10.58	10.58	320	26.5	26.66	115.459	114.77	0.60
4b lao	4	5.3	6.7	5.7	5.7	89.7	10.30	10.30	320	27.94	27.83	98.8255	99.22	-0.40
5b lt lat	5	5.5	4.9	5.7	5.7	82.45	17.55	17.55	320	31.34	31.20	103.717	104.18	-0.45
6b lpo	6	5.5	6.2	5.7	6.2	82.29	17.71	17.71	320	32.22	32.39	107.631	107.07	0.52

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