



INTRAOP

New Treatment New Hope

Mobetron: Total Dose™ Breast Cancer Treatment

The Total Dose™ treatment is a technique using Intra Operative Electron beam Radiation Therapy (IOERT) which delivers a single dose (fraction) of radiation at the time of surgery directly on the tumor bed. This dose is complete; no follow-up radiation is needed, saving the patient 25-30 fractions of External Beam Radiation Therapy (EBRT), which equates to elimination of 5-6 weeks of daily radiation treatments. The total dose treatment delivers in just two minutes the same effective dose of radiation as six weeks of EBRT.

There are currently two approaches to Total Dose IOERT for breast. The first was developed by the University of North Carolina (UNC) and has been used to treat over 50 women. The second was developed by the European Institute of Oncology in Milan (EIO) and has been used to treat over 2,000 women. Both institutions report excellent results.

In addition to reducing treatment and recovery timelines, Total Dose IOERT offers the exclusive benefit of oncoplastic breast reconstruction at the conclusion of the lumpectomy surgery, reducing the need for additional, post operative reconstructive surgeries. When patients are only offered conventional treatment with EBRT, some opt for mastectomy rather than breast conserving therapy (BCT), while others opt to drop the post-lumpectomy course of radiation, thus jeopardizing treatment outcome. In many cases, these decisions are made to reduce treatment timelines and the effects of prolonged radiation on healthy tissue, as well as concerns to their overall well being. Total Dose IOERT eliminates the need to schedule and allocate blocks of time for daily EBRT treatment and its effects, because it eliminates the need for EBRT, thus allowing a quick return to normal daily routines.

At EIO this technique is now so well accepted that over 1100 women have been treated with the Total Dose approach outside of the randomized trial. Representatives of the EIO have presented their results at several medical conferences; a presentation and transcript of these results, created by Professor Roberto Orecchia, M.D., Chairman of Radiation Oncology, are available for upon request.

The Total Dose technique to date has, primarily been used for what are considered low risk women; that is, they are 48 years or older, with small tumors that are no larger than 3 cm, and with no lymph node involvement.

The Mobetron is an IntraOp patented, self-shielded, mobile, electron beam linear accelerator that delivers radiation treatment to cancer patients during surgery.

Mobetron Benefits

- Radiation delivered in single dose
- Delivered in OR during lumpectomy
- Irradiates tumor bed during surgery
- 2 minute treatment time
- Superior dose distributions
- Eliminates dose to skin
- Allows for Oncoplastic Reconstruction at time of lumpectomy
- A compelling reason to select Breast Conserving Therapy (BCT)
- Overall better cosmetic results



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