PRECISION MATTERS for BREAST CANCER

The TomoTherapy® platform provides flexibility to adapt radiation therapy to any breast cancer patient’s anatomy, delivering optimal coverage to target volumes with minimized cardiac dose and organ-at-risk exposure.
Conformal, Homogeneous Coverage
*Breast conserving approach to whole right breast radiotherapy*

**TomoDirect™**
- 2 angles, 3DCRT

**TomoEDGE™**
- 5-cm Dynamic Jaws

**VoLO™**
- Treatment Planning

**Beam-on time:**
- TomoDirect™: 2.5 minutes
- TomoEDGE™: 3.5 minutes

25 FRACTIONS, 50 Gy

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Improved Patient Convenience
*Accelerated partial breast irradiation of the left breast, prone position*

**TomoDirect™**
- 4 angles, IMRT

**TomoEDGE™**
- 5-cm Dynamic Jaws

**VoLO™**
- Treatment Planning

**Beam-on time:**
- 3.5 minutes

10 FRACTIONS, 38 Gy
Simultaneous Integrated Boost
*Left breast treatment with low cardiac dose and simultaneous integrated boost*

TomoHelical™
IMRT

TomoEDGE™
5-cm Dynamic Jaws

VoLO™
Treatment Planning

Beam-on time:
5.6 minutes

25 FRACTIONS, 50 Gy (WHOLE BREAST),
60 Gy (BOOST)

Complex and Long Volumes in One Delivery
*Post-mastectomy irradiation of bilateral chest wall and nodes with a single plan*

TomoHelical™
IMRT

TomoEDGE™
5-cm Dynamic Jaws

VoLO™
Treatment Planning

Beam-on time:
6.3 minutes

28 FRACTIONS, 50.4 Gy (CHEST WALL),
50.4 Gy (SUPRACLAVICULAR NODES)
Reduced Margins and Accurate Patient Set-Up

The TomoTherapy® System provides the option of efficiently acquiring a CT image before each treatment. A very low dose (typically 1-2 cGy) is delivered per image. With practical daily imaging, planners gain the confidence necessary to reduce margins and therapists can assure accurate patient set-up throughout the course of treatment.

“Advantages include better conformity of treatment with lowering of dosages to underlying organs at risk, for example ipsilateral lung and heart. There is improved coverage of the planning target volume, including regional nodes, without field junction problems.”


*Early experience of tomotherapy-based intensity-modulated radiotherapy for breast cancer treatment.*

O’Donnell H, Cooke K, Walsh N, Plowman PN.