Menorah Medical Center’s TrueBeam™ Radiotherapy System

High-Precision Radiotherapy Treatment
Menorah Medical Center’s TrueBeam™ system brings leading edge cancer care to our hospital by positioning our Sarah Cannon Cancer Institute at the forefront in the fight against cancer.

Accuracy
Designed from the ground up to treat moving targets with advanced speed and accuracy, the TrueBeam™ platform is a fully-integrated system for image-guided radiotherapy and radiosurgery.

Innovation
TrueBeam™ channels innovative, intelligent, and intuitive thinking to provide technology built with the patient in mind. From fast imaging to accurate dose delivery, TrueBeam™ is designed to help clinicians navigate the complexities of cancer care with confidence.

Workflow
The carefully guided, automated workflow on the TrueBeam™ system uses intuitive visual cues to enhance safety and reduce operation times so patient throughput can be optimized. Streamlined imaging and patient positioning tools enable more flexibility to treat clinical cases throughout the body. Having the power to not only treat quickly, but to deliver high, accurate dose rates are hallmarks of the TrueBeam™ system.

Options
Delivering numerous radiotherapy treatment techniques, TrueBeam™ provides clinicians with the opportunity to address a diverse range of cancer cases from cranial, head and neck, to lung and spine and tailor treatment plans for each patient. TrueBeam™ addresses the technical challenges of these four common cancer types:

- Head and neck
- Breast
- Lung
- Prostate

Sarah Cannon
Cancer Institute

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CLINICAL BENEFITS - TREATMENT ACCURACY

At the heart of TrueBeam’s™ advanced performance is the proprietary Maestro synchronous control system that dynamically directs, synchronizes, and monitors all TrueBeam™ integrated functional components including the treatment beam generation, gantry, collimator, couch and imaging to enable seamless system operation. Maestro’s sophisticated orchestration and command of every element of treatment delivery including dose, motion and imaging enables fast and efficient image-guided treatments including SRS gated RapidArc. Sub-millimeter accuracy and comprehensive QA tools help ensure patient safety and delivery conformality.

On TrueBeam’s™ flexible open architecture, clinicians can interface with multiple technologies for imaging and disease-specific solutions. The integration of MV, kV, and optical imaging modalities means that the TrueBeam™ can support a wide variety of imaging and treatment delivery techniques. A combination of 2D, 3D, and 4D imaging capabilities allows for imaging to be both flexible and customizable. The system continuously monitors tumor movement and helps clinicians deliver radiation only when the tumor is in the right place, while the patient continues natural breathing.

Advanced imaging techniques include:
- Blended MV/kV radiographs
- Respiration-synchronized fluoroscopy and cine MV
- Respiratory-synchronized MV and kV radiographs
- kV image acquisition during treatment delivery
- Enhanced Imaging

Treatment techniques, all of which can be delivered under respiratory gated conditions, include:
- 3D-CRT
- IMRT
- RapidArc radiotherapy technology
- Dynamic conformal arc