

PM-THV-19-04-brochure TBI, 07-06-2022 rev.2



by theraview
CNERGY
innovative radiotherapy



CNERGY TBI

Working together for **safe, accurate & efficient** RT treatments



CNERGY TBI is part of the CNERGY Solutions.



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Precision, Imaging & Viewing

CNERGY TBI

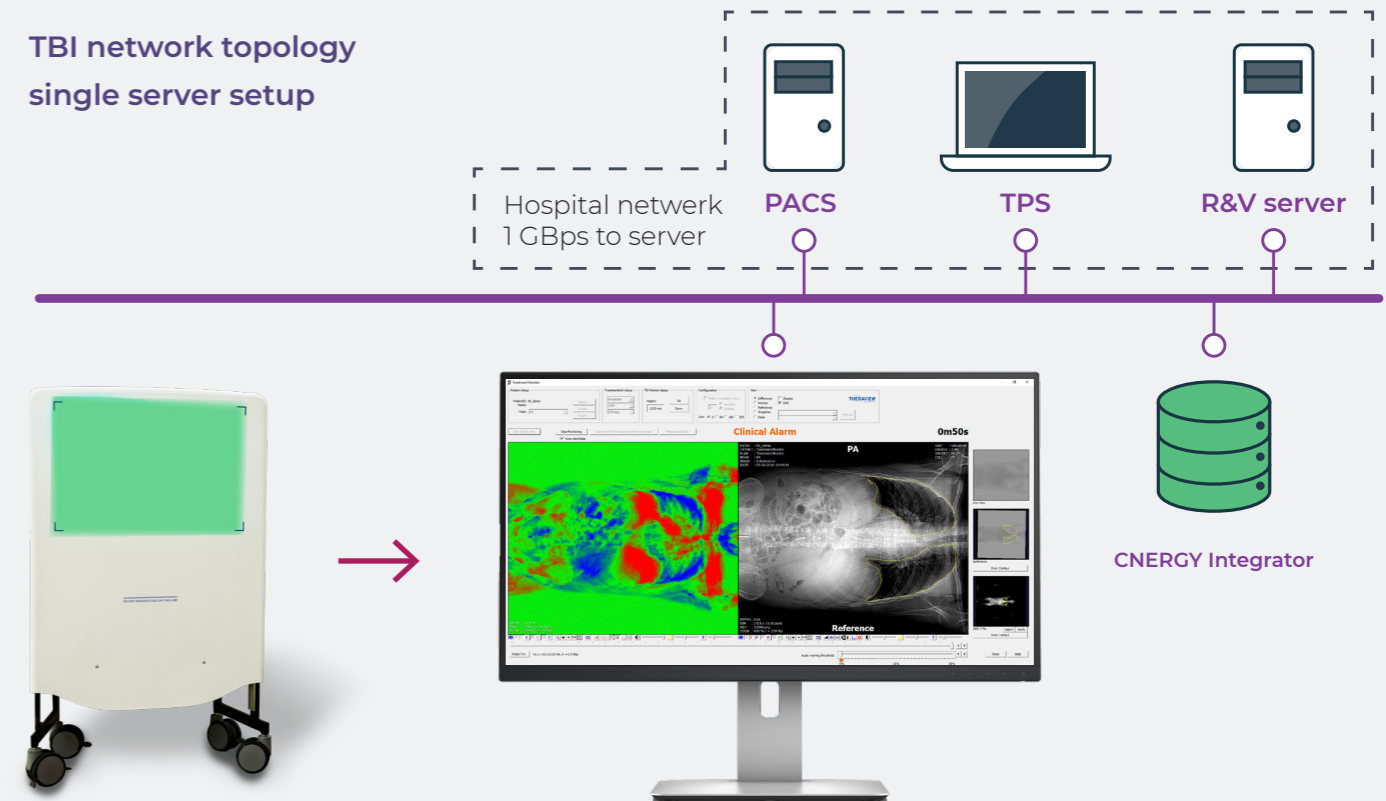
Total Body Irradiation (TBI) can be a complex treatment and may take up to an hour. Patient movements or positioning difficulties can double the time required. CNERGY TBI aims to help you significantly improve Total Body Irradiation treatment setup procedures and outcomes. This mobile stand-alone imager is part of the integrated CNERGY product portfolio and is a modern TBI verification solution. Instead of simply producing a single image the resolution relies on Intrafraction Monitoring in the form of live video capture to provide 1376 x 1024 resolution (14 bits/pixel) MV images. Video captures can be stopped and restarted to accommodate for changes in the patient's position or block/ compensator positions - so there's no risk of needing to repeat the entire patient setup procedure. This will deliver greater efficiency and improved treatment quality compared to the classic film cassette methods.¹

Focus on accuracy, efficiency and safety

During treatment, you need to ensure your patient is positioned correctly and that the dose given is in line with the treatment plan. CNERGY TBI setup verification software helps to automatically set up and correct the positioning of a patient or compensator/ blocker. Matching tools constantly monitor patient anatomy for movement readouts with sub-millimeter precision.²

Throughout the entire treatment process, Intrafraction Monitoring is active and a live video feed is provided. Images are acquired every second during treatment to verify patient position and compensator/blocker position. A color-coded image shows differences between the patient's current position and the position at the outset. This comparison is supported by a clinical audio alarm, audible whenever the difference exceeds a predefined threshold. Treatment can be manually stopped and continued, based on real-time (software) feedback.

TBI network topology single server setup



KEY FEATURES:

- Verification with (sub)-millimeter precision²
- Dicom RT support to import treatment plan information to use as reference
- Real-time (intrafraction) monitoring during entire treatment
- Clinical audio alarm when difference in color coded image exceeds predefined threshold
- Large TBI imaging area of 75 x 46 cm

BENEFITS:

- More efficient patient setup¹
- Reduce overall treatment times¹
- Patient setup verification software specially designed for TBI workflow
- Patient position is continuously monitored during entire treatment
- Mobile unit can be used in different treatment rooms

¹ Elsevier, Critical Reviews in Oncology/ Hematology, Total body irradiation in allogeneic bone marrow transplantation conditioning regimens: A review (2018)
² TBI Data Sheet