Bhabhatron3i

PANACEA
Engineering Medicine



Precision EBRT



Taking Gamma Beam Treatment to next level with Image Guidance

The future of Gamma Beam Radiation Therapy has arrived, and it is powered by the combination of ground-breaking technology and image guidance.

PRECISION THERAPY FOR PERSONALIZED CARE

Introducing the revolutionary Bhabhatron 3i, a cutting-edge radiotherapy unit that combines the reliability of cobalt therapy with the precision of a linear accelerator. With Bhabhatron 3i, cancer patients can now receive high-precision EBRT treatment that was previously only possible with LINAC-based machines.

Bhabhatron 3i is designed to deliver radiation with exceptional accuracy, targeting cancer cells with precision radiation while minimizing damage to surrounding healthy tissues. The system employs advanced image guidance techniques and state-of-the-art software to plan and deliver personalized radiation therapy to each patient.

The future of gamma beam radiation therapy is here with Bhabhatron 3i, the revolutionary cobalt therapy machine that delivers precise radiotherapy treatment on a cobalt platform.

Precision Assured: Verify what you treat.

The world's first Gamma beam therapy unit with a comprehensive suite of advanced imaging tools. With advanced imaging and verification tools, Bhabhatron 3i empowers you to deliver Image Guided Radiation Therapy (IGRT) and Forward plan Intensity Modulated Radiotherapy (IMRT) with confidence. The size, shape, and location of the target can be visualized during the treatment using CBCT. The large 43cm x 43cm detector can acquire images in full fan and half fan mode, allowing you to visualize what you treat.

Sharper Precision, Superior Care

Experience the power of our advanced MLC technology and unlock a new level of precision in cancer treatment. The dynamic 25-pair MLC on Bhabhatron 3i is designed to provide unparalleled precision and accuracy for conformal treatments. With a thickness of 1cm at iso center and the capability of overtravel, our MLC empowers the user to deliver advanced treatment modalities like 3D CRT, Forward plan Intensity Modulated Radiotherapy, and IGRT with utmost accuracy.

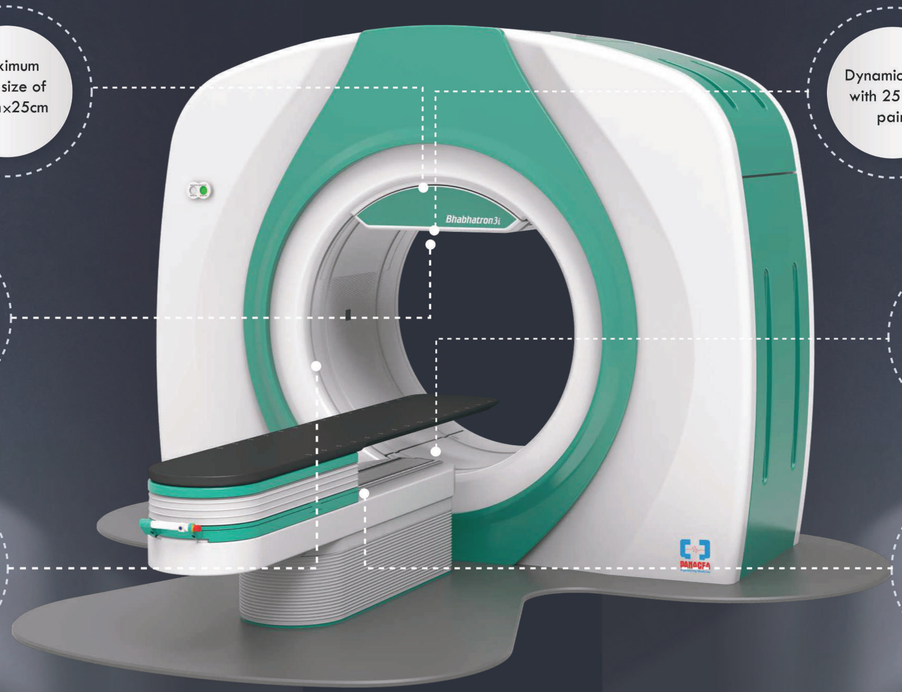
Unleash the Full Potential of 6D Couch

Introducing robotics- a game-changing technology that makes Bhabhatron 3i a highly accurate gamma beam therapy unit. The robotic 6D couch of Bhabhatron 3i offers roll, and pitch movements that facilitate non-coplanar beam treatments, allowing for more precise targeting of tumors . The auto couch setup on the 6D couch allows swift and efficient positioning of the patient onto the treatment couch.

Maximum field size of 25cm×25cm

SAD of 80 cm for high dose delivery

In-gantry Imaging for accurate patient positioning



Dynamic MLC with 25 leaf pairs

In-built beam stopper

6D Robotic Couch

Record and Verification: Perfected

Experience the power of our record and verification system which matches daily patient images with plan images, ensuring precision and accuracy throughout the treatment process. The matched images are saved for offline review, providing clinicians with valuable data for future treatment planning. Additionally, our fully digital system is DICOM compatible, enabling easy import and export of patient data. With our record and verify feature, you can trust in the accuracy and precision of your treatment delivery, while minimizing the risk of complications.

4 Steps to Precision

With Bhabhatron 3i, the entire treatment workflow is seamless and intuitive. The streamlined 4-step workflow ensures accuracy, safety, and efficiency at every stage of the treatment process. Set up the patient and verify the interlocks for safety clearance, perform a kV imaging to verify the tumor position as per the treatment plan, apply the couch shift corrections and deliver the treatment.

Minimum Vault Requirements, Maximum Performance

The Bhabhatron 3i system is designed with advanced features to optimize radiation therapy delivery while minimizing the impact on the surrounding environment. One such feature is the in-built beam stopper, which significantly reduces the need for primary shielding of the bunker. Bhabhatron 3i can be housed in any cobalt bunker without the need for significant alterations to existing infrastructure. Our commitment to cutting-edge technology and sustainable practices is reflected in every aspect of our system, from design to implementation.

Defeating Cancer Together



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