

Precision Cancer Treatment Ensures Better Outcome

Foremost TrueBeam HyperArc, Radiotherapy comes as an effective tool

Already a pioneer in all modern treatment modalities in cancer care, KMCH has further upscaled its radiotherapy capability recently to world's latest HyperArc TrueBeam technology. This enables KMCH to offer patients comfort with pinpointed sharpness, effectively, without side-effects and ensure shorter couch time.



HyperArc Radiotherapy treatment planning and precision targeting

The past decade has witnessed considerable progress towards the treatment and understanding of the hallmarks of cancer. Together with the advances in early detection and various treatment modalities, many types of cancers have become curable.

Among the treatment modalities covering radiation therapy, surgery, chemotherapy, immunotherapy and hormonal therapy, radiation therapy remains an important component of cancer treatment contributing towards 40% of curative treatment for cancer.

If used before surgery (neoadjuvant therapy), radiation will aim to shrink the tumor. If used after surgery (adjuvant therapy), radiation will des-

stroy microscopic cancerous tumour cells that may have been left behind.

Advanced radiation oncology, KMCH keeps pace with the world.

The Comprehensive Cancer Centre of Kovai Medical Center and Hospital, established in 2011 at par with global institutes in cancer care, has always endeavoured to offer the best solutions in all modalities of cancer treatments.

Emerging medical technologies have enabled KMCH introduce innovative procedures and protocols, mostly, ahead of others. KMCH is the pioneer in introducing the latest technologies.

“KMCH is the leading hospital in Coimbatore to offer advanced radiation treatment facility and ushering in latest technologies introduced world-wide”

asserts Dr. R. Subramaniam, Dr. Madhu Sairam and Dr. Varadarajan Kumar, radiation oncology experts of KMCH.

“For instance, the hospital introduced for the first time state-of-the-art RapidArc radiation therapy in 2011. The treatment involves application of radiation for about 3 - 4 minutes on the affected part of the body. This is the ideal treatment option for cancer in brain, neck, breast and uterus”, the doctors say.

Subsequently in 2013 4D Gated radio therapy was

introduced. This treatment known for accuracy ensures that nearby parts are not affected. If the left breast is treated for cancer, it ensures that the heart is not affected.

In the next stage stereotactic radiotherapy (SRT) was introduced.

Stereotactic radiotherapy (SRT)

During the cancer treatment for brain and other vital parts of the body, care needs to be taken to ensure that nearby parts are not affected. Stereotactic radio-therapy accurately targets the cancer area and eliminates the cancer cells with the help of Linear accelerator.

For instance when the brain is operated, there may be some side effects like loss of vision,

paralysis of limbs etc. For such brain tumour operations, SRT is the ideal treatment solution. The treatment would last for 3 to 10 days for few minutes every day. Patient will not experience any pain or irritation.

SRT is recommended for malignant and normal brain tumours, swelling blood veins, tumour in pituitary gland and tumour in liver and spine.

Smaller tumours can be treated in one day procedure. This is known as Stereotactic Radio Surgery (SRS). If there's a tumour in the Trigeminal nerve, pain would be severe even with the slightest movement of face. Stereotactic Radio Surgery is the best treatment option for such

surgery in Oct.2019.

HyperArc is designed to automate and simplify sophisticated treatments such as Stereotactic Radio Surgery (SRS) and make them available to more cancer patients around the world.

Using this cutting edge technology for radiation oncology cancer cells can be precisely targeted and eliminated with unmatched speed and accuracy. It targets only the cancer affected cells and spares the normal, healthy cells. Safe and highly effective, it greatly reduces the side effects.

HyperArc offers a host of advantages including treatment and complete elimination of minute tumours, treatment for



World's advanced system for Cancer care

cases. For the last 2 years, KMCH has successfully treated patients with complicated tumours through SRS.

First time in India, TrueBeam HyperArc Radiotherapy

KMCH, in keeping with its tradition of innovation has introduced for the first time in India TrueBeam HyperArc, a high precision, high speed radio therapy and radio

highly complicated cases. Brain tumour, entanglement of veins, etc. can be treated with great accuracy.

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