

# Radiotherapy in Hospital Picaso



At Hospital Picaso, we provide comprehensive cancer care that includes radiation therapy, encompassing both External Beam Radiotherapy (EBRT) and internal radiation therapy (Brachytherapy) as part of our integrated treatment approach for patients. Your radiation treatment plan is meticulously tailored to address the specific characteristics of your cancer, including its type, size, stage, and location.

## External Beam Radiotherapy

Utilising a standalone linear accelerator (Linac), External Beam Radiotherapy (EBRT) can serve as a primary treatment option or be seamlessly integrated with surgery, chemotherapy, immunotherapy, or brachytherapy to offer comprehensive and personalised cancer care for optimal outcomes.



## Meet Elekta Harmony Pro: The 1st in Malaysia

A pioneering achievement – Hospital Picaso proudly leads the way as the first healthcare provider in Malaysia to introduce a cutting-edge Linac known as Elekta Harmony Pro. As a versatile Linac, Elekta Harmony Pro is equipped with the latest radiotherapy technology that is capable of treating a wide range of cancer types, setting a new standard in cancer treatment and delivering breakthroughs that will transform lives.

### Why Should You Choose Hospital Picaso for EBRT?

Elekta Harmony Pro enables the delivery of EBRT through a broad range of treatment techniques, including 3D-Conformal Radiotherapy (3D-CRT), Intensity Modulated Radiotherapy (IMRT), Volumetric Modulated Arc Therapy (VMAT), Stereotactic Radiotherapy (SRT), and Stereotactic Body Radiotherapy (SBRT), making it a versatile solution for addressing different types of cancer.



**Breast cancer**



**Gynaecological cancers**  
(cervical, ovarian, uterine)



**Gastrointestinal cancers**  
(oesophageal, stomach, colorectal, pancreatic, liver and gallbladder)



**Urological cancers**  
(prostate, bladder, kidney, testicular)

\*Elekta Harmony Pro is also capable of treating other types of cancer not listed above

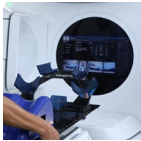
## Experience Seamless Enhanced Features, Dedicated for a Better Radiotherapy Journey

The brand-new Elekta Harmony Pro comes with several enhanced features that are made for a seamless treatment experience for patients.



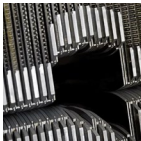
### Auto verification facial recognition

Overhauling the conventional verification system, the risk of patient identification errors during radiotherapy treatment will be eliminated.



### Automated accessory verification

Equipped with guided "follow-me" workflow, ensuring the correct patient setup for smooth and efficient treatment setup.



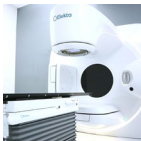
### Ultimate treatment delivery precision

Capable of moulding the radiation treatment in accordance to the shape and size of tumours through advanced 160-leaf multileaf collimator (MLC). Precision is perfected and exceptional treatment accuracy can be achieved.



### High speed treatment delivery

Achieves shorter treatment time with 70% faster treatment delivery with VMAT and faster MLC speed. Quick treatment delivery facilitates patients to reduce the risk of motion-induced errors throughout the radiotherapy procedure.



### Linac with patient-oriented design

Designed to offer a patient-friendly environment and best-in-room experience, such as:

- Ambient lighting inside treatment room
- A lower table for easier patient access
- Wide and open bore - ideal for claustrophobic patients

# Internal Radiation Therapy (Brachytherapy)

## Discover the Future of Gynaecologic Cancer Care at Hospital Picaso

Brachytherapy is a specialised type of interventional radiotherapy, delivering a highly precise radiation directly onto the tumour, while also minimising exposure to healthy tissue. It can be used to treat several cancers.

Our commitment to cutting-edge treatment extends to gynaecologic cancers, where we utilise advanced internal radiation therapy (brachytherapy) powered by the Elekta Flexitron machine. Gynaecologic cancers encompass a range of malignancies affecting the female reproductive organs, including the cervix, uterus (endometrium), ovaries, fallopian tubes, vulva, and vagina. Brachytherapy, a specialised treatment modality, plays a pivotal role in effectively managing these cancers, offering numerous benefits tailored to these unique tumour types.

Within our comprehensive approach, we offer High Dose Rate (HDR) Brachytherapy as an advanced form of internal radiation therapy. This technique involves the insertion of radiation source-containing capsules into an applicator within or near the tumour site, enabling precise delivery of high radiation doses with limited penetration, thereby sparing adjacent healthy tissues.



## Why You Should Choose Hospital Picaso for Brachytherapy?

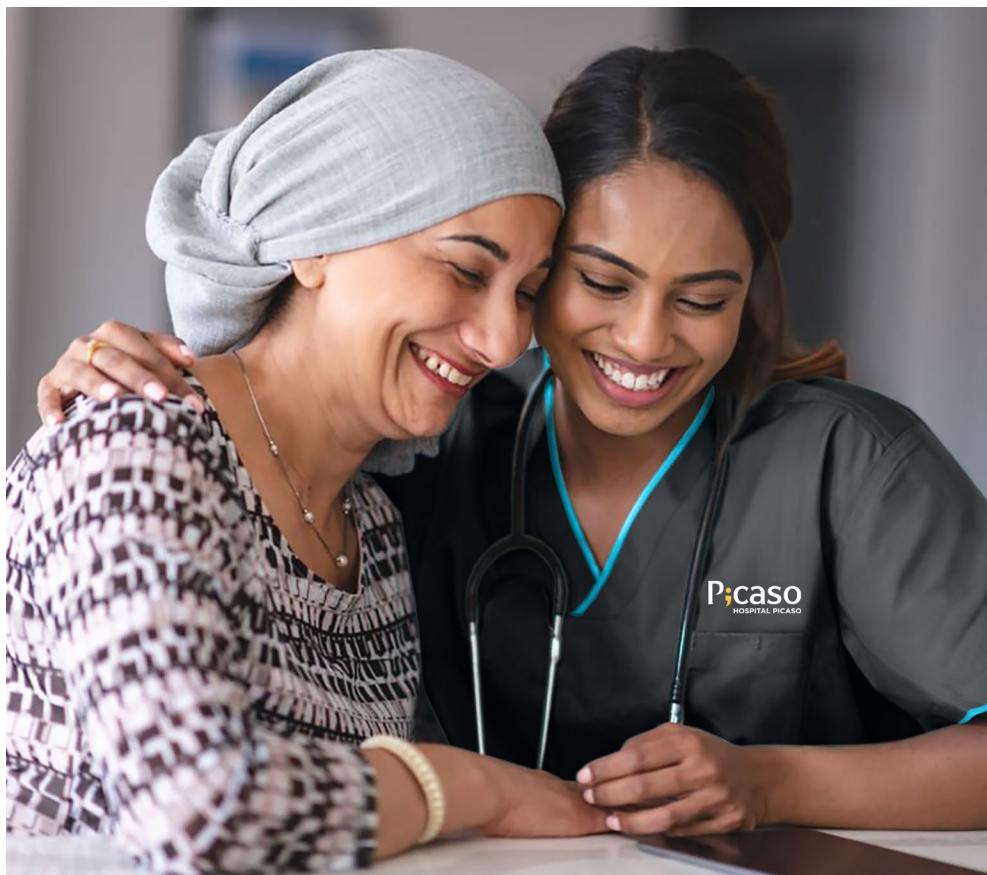
To ensure precise treatment delivery, we tailor the choice of applicator for brachytherapy to align with the specific indication, location, and size of the tumour. Let's explore the versatility of our state-of-the-art Elekta Flexitron machine and its range of applicators, each meticulously selected to optimise your care.



## Why Flexitron?

Providing you with the best possible care, consistently and over time, is a high priority. The Flexitron ensures accurate and efficient treatment delivery while maintaining up to 30% faster treatment times.

Brachytherapy in Picaso specialises in precisely targeting the cancer cells, reducing side effects as the healthy tissue nearby the tumour only gets a small dose of radiation. Moreover, it is an advancement in the treatment delivery process which has a 0.5 mm superior source position accuracy and standardised tube length to reduce ambiguity.



## Experience Exceptional Care with Our Expert Team

At our facility, you can trust that your radiation therapy is in the hands of a dedicated and skilled team of medical professionals. Our team includes clinical oncologists, radiation therapists, medical physicists, and radiotherapy nurses, all working together to provide you with the highest quality care during your EBRT and HDR brachytherapy procedures. Your well-being and comfort are our top priorities, and we're here to ensure you receive the best possible treatment.



# P;caso

HOSPITAL PICASO

PJ Integrated Centre  
for Advanced Surgery  
and Oncology



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