

# Remote Afterloader Flexitron® for Brachytherapy



St. Teresa's Hospital  
Oncology Centre

## What is Flexitron® Remote Afterloader

Flexitron® is a device for internal radiation therapy created by Elekta, mainly used to treat cervical and endometrial cancers. This method is often called “Vaginal Tandem Brachytherapy” or “Intracavitary Brachytherapy”.

The Flexitron® contains a source of iridium-192 (Ir-192). Oncologist or gynecologist will place a device inside the patient's vagina or uterus, close to the tumor, and connect it with special tubes. When the radiation source is moved from the Flexitron® machine to the device, it delivers high-dose radiation from a short distance to effectively target and eliminate cancer cells.

## Benefits of using Flexitron® Afterloader

### Safe

The radiation source is securely stored in a sealed protection device and is transmitted to the body through specialized tubing during treatment. It does not remain in the patient; instead, it delivers localized radiation to the tumor via a sealed instrument. Therapists can monitor the position in real time to ensure safety and prevent leakage. After treatment, the source automatically retracts, minimizing unnecessary radiation exposure for both patients and healthcare personnel, making the system reliable and safe.

### Efficient

During treatment, the radiation source is placed directly at the center of the tumor, delivering a high radiation dose at minimal distance to effectively eliminate cancer cells. As the radiation dose decreases with distance, this approach reduces exposure to healthy tissues and subsequently lower risk of side effects.

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