

## TREATMENT EXAMINATION

In particular, dynamic changes in the tumor during radiation therapy in rectum, liver, head and neck and brain tumors can be evaluated and the tumor's response to radiation therapy can be predicted. (The only MR-linac approved by the FDA in this regard is Unity)

This predictability allows data to be obtained on the direction of treatment to be performed after radiation therapy in all types of tumors and especially in brain tumors.

## Areas Where MR-Linac Unity Is Effective

**65% of all cancers occur in the lungs, prostate, colorectal, stomach, liver, breast and cervix**

In addition to being a process that should be done in cooperation with medical oncology physicians, radiotherapy treatments are very valuable for metastatic cancer types. MR Linac Unity Technology is effective in the following types of tumors, being mainly lung, prostate, intra-abdominal tumors, liver tumors and metastases, pancreatic cancers.

- Brain tumors
- Head and neck cancers
- Pancreatic Cancer
- Inoperable pancreas cancers
- Pankeras cancers with limited operation
- Colon cancer
- Colorectal cancer
- Pelvic tumors
- Cervical Cancer
- Intrauterine cancer
- Liver cancer
- Liver metastasis
- Rectal cancers
- Inoperable rectal cancers
- Kidney cancer
- Adrenal metastases
- Adrenal cancer
- Adrenal gland metastases
- Brain tumors
- Kidney tumors
- Lung cancer
- Stomach cancer
- Esophageal tumors
- Prostate cancer
- Early stage prostate cancer
- Low risk prostate cancer
- Breast cancer
- Early stage breast cancer
- Abdominal Tumor
- Hepatobiliary cancers
- Liver HCC
- Soft tissue sarcoma
- Vaginal cancer
- Renal cell cancers
- Bladder cancers
- Abdominal tumors
- Abdominal masses
- Fallopian tube cancer



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**RADIATION THERAPY WITH AREA-FOCUSED  
IMAGING TARGETING THE TUMOR:**

**MR LINAC UNITY**

**PINPOINT TO TUMOR AND SHORTENING TREATMENT**

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KLİNİĞİ  
CANCER  
CLINIC**

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# General Information

With MR-Linac Unity Technology, your doctor can “see” tumor tissue more clearly and he can adjust the radiation dose during treatment according to the daily changes of your organs. It ensures that treatment is more effective than ever, as it can safely emit radiation without damaging the surrounding tissues while the required dose is applied to the present tumor. This treatment, which better protects normal tissues, creates comfort space for the patient by reducing the number of sessions.

# Customized treatment:

Customized treatment MR-Linac Unity can be used in patients who is appropriate to use 1.5 Tesla MR devices and need radiotherapy

MR-Linac Unity with fine detailed imaging capabilities, provides a clear image that separates the tumor tissue from normal tissues for radiation therapy planning and treatment application. In addition, in tumors located in the brain, neck and abdomen, it monitors tumor and normal tissues with precision throughout treatment/ while allowing excellent soft tissue visualization.



MR-Linac Unity allows doctors to see a tumor clearly and plan a precise treatment based on the current state of the tumor.

**MR-Linac Unity**  
Technology with the most advanced scanning capability;



# Patient Facilities:

- Radiation therapy with MR-Linac Unity Technology with MRI-assisted imaging may be suitable for many cancer patients treated with radiotherapy and able to use the MRI device.
- People with a type of cancer that was previously considered unsuitable for radiation therapy or difficult to treat can also be treated with this method.
- It is especially ideal for people with tumors that move with each breath in constant motion, such as tumors in the lungs or upper abdomen that move with each breath. It can also be suitable for people with tumors-close to radiosensitive organs such as the stomach, kidney, heart, spinal cord or brain-who are difficult to irradiate not only because of movement, but also because of position.
- It separates tumors from normal tissues, blood vessels, and bony structures, allowing them to clearly see soft tissues.
- It allows you to accurately see the location of moving tumors during each treatment session.
- Taking into account the position, shape, biology of the tumor and its relationship with sensitive organs such as the stomach, kidneys, heart, spinal cord, bladder, intestine, it shapes the radiation dose every day as needed throughout the entire treatment process.
- It allows more effective doses of radiation to be delivered to the tumor.
- Treatment sessions may be reduced because it allows higher daily radiation doses.
- It protects healthy tissues from the harmful effects of radiation blood vessels and organs as much as possible .

# 3 TREATMENT-ORIENTED PROCEDURES

## SCAN, PLAN, TREAT



**SCANNING**  
ly reports daily changes in patient anatomy with daily patient MRI scan.



**PLANNING**  
Fast, real-time adaptive features allow you to re-optimize the treatment plan and re-plan to take into account changes in the environment.



**TREATMENT**  
It is applied along with continuous target imaging throughout radiation therapy.