

Heavy Ion Therapy

— A New Option for Cancer Treatment —

EAST JAPAN HEAVY ION CENTER
FACULTY OF MEDICINE-YAMAGATA UNIVERSITY



East Japan Heavy Ion Center
Faculty of Medicine-Yamagata University
Yamagata University Hospital

For overseas patients who wish to receive medical care at our hospital

If the patient is not covered by Japanese National Health Insurance, all procedures must be arranged through a medical coordinator to ensure smooth and safe medical care.

Coordinator	Emergency Assistance Japan Co., Ltd. (EAJ)
Web Site	https://maj.emergency.co.jp/en/
E-mail	mj-info@emergency.co.jp
Phone	+81-3-3811-8600 (English and Japanese) +81-3-3811-8251 (Chinese / call to Japan) +86-10-8592-7080 (Chinese/ call to Beijing, 010-8592-7080 call inside China)
Languages	English, Chinese, and others

Coordinator	International Accelerator Engineering Corporation(IAEC)
Web Site	http://iaecms.com
E-mail	cs@iaecms.com
Phone	+82-2-1899-2092
Languages	Korean, English, Japanese, Chinese

Coordinator	NIKEN INTERNATIONAL MEDICAL SUPPORT
Web Site	http://nimsupport.com
E-mail	m.choi@nimsupport.com
Phone	+81-80-3158-5074
Languages	Korean, Japanese

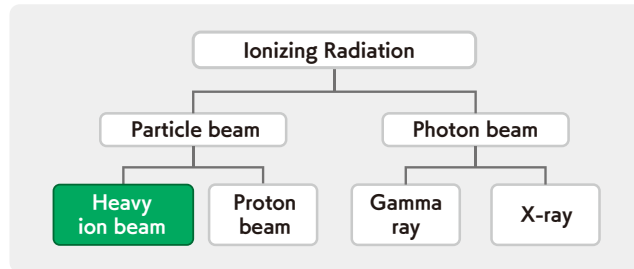
*For the patient who is not covered by Japanese national health insurance, medical and technical fees are JPY 4,185,000 (tax included) for heavy ion therapy regardless of cancer types and number of irradiation sessions. The other medical care like consulting, image diagnosis and follow-up will be charged separately based on JPY 30 per 1 medical fee point.

*Patients are responsible for medical coordination service fees.

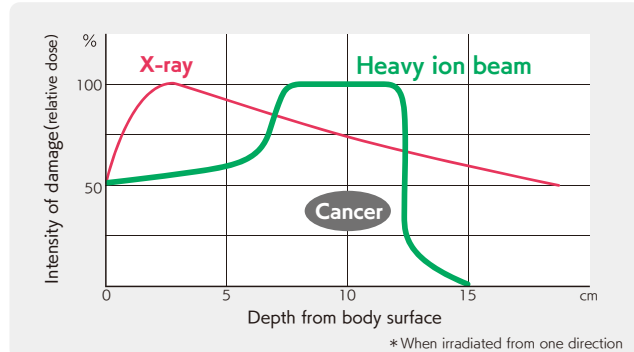
What is Heavy Ion Therapy?

Heavy ion therapy is a type of external beam radiation therapy. X-rays are usually used, but heavy ion therapy is a treatment that irradiates cancer with ions that are heavier than protons. At our center, only **carbon ions** are used for heavy ion therapy.

• Types of Radiations for Radiotherapy



• Comparison of dose distribution of heavy ion beam and X-ray



* Rearranged from the website of the National Institutes for Quantum Science and Technology

The heavy ion beams intensively damage the cancer and stop there, which means less damage to surrounding tissues.

The East Japan Heavy Ion Center, Faculty of Medicine, Yamagata University is the world's first heavy ion therapy facility directly connected to a general hospital. As a result, even patients with chronic diseases can receive heavy ion therapy while being treated.

3 reasons to recommend Heavy Ion Therapy

1 Strong effect

Heavy ion beams are more destructive than other types of radiation. It can be more effective against tumors such as sarcomas that are resistant to conventional radiation.

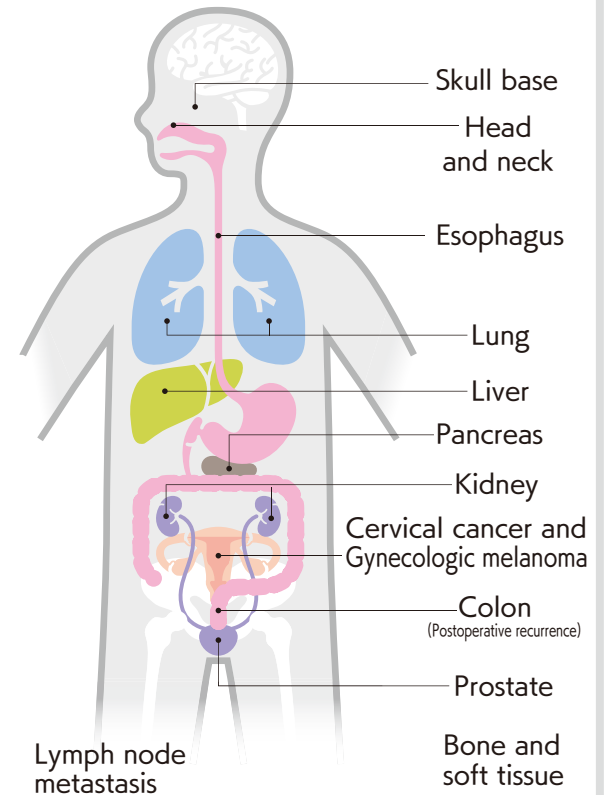
2 Less damage to surrounding tissue

The heavy ion beams intensively damage the cancer, which means less damage to surrounding tissue.

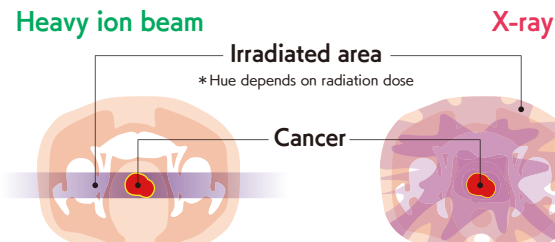
3 Short treatment duration

The number of treatment sessions is fewer and the duration of treatment is about half or less than that of other radiation therapies.

• Cancers to be treated by heavy ion beams



Difference in irradiated area between heavy ion beam and X-rays



Heavy ion beams irradiate cancer more intensively than X-rays without exposing surrounding tissue.

* The illustration is an image for prostate cancer.

* Influenced area of radiation when all irradiation is complete.



In the Rotating Gantry Irradiation Room, the treatment target is irradiated with pinpoint heavy ion beams from any angle while the patient remains in a comfortable position.

Information

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Location

Yamagata Japan



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