

# Minimally Invasive Treatment for Cancer. II

(Code: 4822, 1<sup>st</sup> – 2<sup>nd</sup> year, 1 unit)

(Course ID: GS-c4822-L)

## 1. Instructors

Name	Position	Department	Contact Information
MIURA Masahiko	Chief Instructor / Professor	Department of Oral Radiation Oncology	masa.mdth@tmd.ac.jp
OKADA Takuya	Associate Professor	Gastrointestinal Surgery	t-okada.srg1@tmd.ac.jp
TAKEDA Atsuya	Head of Radiation Oncology Center	Ofuna Chuo Hospital, Radiation Oncology Center	takeda@1994.jukuin.keio.ac.jp
AKIMOTO Tetsuo	Director	Vice president, Department of Radiology, National Cancer Center Hospital East	takimoto@east.ncc.go.jp

## 2. Classroom/Lab Lecture Location

On-demand: on WebClass.

The report assignments will be informed by e-mail.

## 3. Course Purpose and Outline

[Course Purpose]

- Understand minimally invasive treatments for cancers in each area.
- Understand the types, indications, and efficacy of radiation therapy.

[Outline]

Radiation therapy will be explained by treatment method. In particular, lectures on IMRT, high-precision radiotherapy of stereotactic irradiation and others, particle therapy using proton beams, and radiation therapy in multidisciplinary treatment will be provided by leading Japanese lecturers at the forefront of the field.

## 4. Course Objectives

- Understand minimally invasive treatments for cancer in each area.
- Understand the types, indications, and efficacy of radiation therapy.

## 5. Format

The subject consists of lectures and report assignments.

All programs are conducted in an omnibus format.

## 6. Course Details

No.	Topics
1	Stereotactic radiotherapy (1)
2	Stereotactic radiotherapy (2)
3	Proton therapy (1)
4	Proton therapy (2)
5	Radiation therapy in multidisciplinary treatment (1)
6	Radiation therapy in multidisciplinary treatment (2)
7	Radiotherapy at Hirosaki University
8	/Radiotherapy at Hirosaki University

## 7. Assessment

The assessment will be by the report assignments.

## 8. Prerequisite Reading

To read through the reference materials.

## 9. Reference Materials

Perez & Brady's principles and practice of radiation oncology / [edited by] Edward C. Halperin, David E. Wazer, Carlos A. Perez, Luther W.  
Brady, Halperin, Edward C., Wazer, David E., Perez, Carlos A., Brady, Luther W., : Wolters Kluwer, 2019

## 10. Language Used

All classes are conducted in English.

## 11. Office Hours

Mon/Wed/Fri: 16:00 – 18:00 PM

Contact: MIURA Masahiko, Department of Oral Radiation Oncology (M&D Tower 702)

E-mail: masa.mdth@tmd.ac.jp

Please contact the instructor regarding questions or consultations.

## 12. Note(s) to Students

Related to organ-specific cancers and others.