

# 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
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## 2. Classroom/Lab Lecture Location

On-demand: on LMS.

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 such as stereotactic irradiation, particle therapy using proton beams, radiation therapy in multidisciplinary treatment, the application of KBP/AI in high-precision radiotherapy, and radiation therapy at Hirosaki University as part of regional healthcare 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	Proton therapy (1)
2	Proton therapy (2)
3	Stereotactic radiotherapy (1)
4	Stereotactic radiotherapy (2)
5	Application of KBP/AI in high-precision radiotherapy (1)
6	Application of KBP/AI in high-precision radiotherapy (2)
7	Radiation therapy in multidisciplinary treatment (1)
8	Radiation therapy in multidisciplinary treatment (2)

## 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)

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Please contact the instructor regarding questions or consultations.

## 12. Note(s) to Students

Related to organ-specific cancers and others.