



ONCOLOGY WINTER SCHOOL

1. Overview

This four-week advanced elective attempts to give senior medical students structured, clinical-practical access to the field of Oncology and to broaden their academic horizons in an interdisciplinary approach under the auspices of experienced professors.

2. Aim of the course

During the elective, the students will follow patients from admission through diagnostics to curative and palliative treatments, including a visit to the Oncology Rehabilitation Hospital in Bad Trissl. The participants will become active members of the Oncology Team and participate in the daily routine on the Oncology Wards.

Furthermore, they will attend courses on advanced diagnostics as well as specialized therapeutic approaches and learn from medical experts in small-group settings. During “clinical case discussions”, the students will learn how to present various patients in a sensibly structured and standardized way.

In addition, the students will hold challenging conversations that are common to a doctor’s daily routine with standardized actor patients in problem-orientated communication seminars (e.g. breaking bad news), at times being video recorded to aid in giving feedback.

3. Target Group

The elective addresses senior medical students, particularly those from LMU partner universities, who will attend this four-week rotation together with senior LMU medical students. The Winter School participants will be matched in groups of two so that every international student will have a LMU study buddy as a personal contact point and information resource for all kinds of questions and possible concerns during their entire stay in Munich.

4. Structure

The interdisciplinary elective in oncology is divided into four theme-based weeks. The curriculum of the four-week rotation focuses on the following topics:

Week One: "General Oncology"

1. "Oncological Basics"
2. Epidemiology
3. Health care aspects of oncological diseases
4. Evidence-based oncology
5. Advances in oncological research

Week Two: "Diagnostics in Oncology"

1. Introduction to Oncological Radiology
2. Mammography
3. Ultrasound
4. MRI
5. Diagnostics in nuclear medicine
6. Hemato-Oncological lab diagnostics

Week Three: "Treatment Approaches in Oncology"

1. Medical treatment
2. Surgical treatment
3. Radiation therapy
4. Interventional radiology
5. Nuclear medicine

Week Four: "Supportive Care"

1. Supportive drug therapy
2. Psycho-oncological treatment
3. Communication skills
4. Oncological rehabilitation
5. Palliative care

5. Program

a) "On the Wards"

The participants become active members of the oncology team and participate in the daily routine on the Wards from Monday through Thursday. They will be expected to be on the Wards from 8am until 5pm.

The collection of a structured medical history, the physical examination and the structured description of the patient are essential elements of this format.

The international students discuss their clinical as well as diagnostic findings with senior medical staff in order to establish a plan for the patients.

In addition, the participants will draw blood, join the daily rounds and take part in any teaching rounds with senior specialists. They will attend radiology demonstrations, interdisciplinary tumor boards and follow their patients to diagnostic or treatment procedures.

b) "Clinical Case Discussions"

On **Wednesday** afternoons from 1:30pm until 3pm "clinical case discussions" will instruct the participating students how to present various patients in a structured and standardized manner with particular focus on clinical cases from the New England Journal of Medicine.

These courses will be lead by senior medical or surgical staff. In this context, each "study buddy" group will present one case and give a short summary on the disease. The participating students will receive a previously published clinical case and further information on how to structure the presentation. These student-held courses will focus on elucidating possible differential diagnoses and on understanding the work-up of a complex case. These courses will enhance the students' abilities to manage complex cases and learn a standardized and structured approach of patient presentations.

The "Clinical Case Discussions" will include New England Journal of Medicine case reports of the following subjects:

1. Solid tumors: e.g. "Pancreatic Tumor"

2. Hematology/Oncology: e.g. "Multiple Myeloma"
3. OB/GYN: e.g. "Ovarian Cancer"
4. Pediatric oncology: e.g. "Ewing-Sarcoma"

c) Additional courses on Thursdays

"Tumor immunology lab" visit (week one)

The participants will have the opportunity to visit a "tumor immunology lab" and to attend lab meeting discussions. They will be introduced to the basics of tumor immunology and the different topics of ongoing research at LMU including presentations of senior LMU students' current work in small group discussions.

"Heme/Onc diagnostics lab" visit (week two)

The participants will be given the opportunity to visit a heme/onc diagnostics lab. They will learn about basic hematological diagnostics and will be acquainted with advanced laboratory methods.

"Patient-Oriented Communication" seminar (week three)

During this course, the participants will learn how to "break bad news" to patients. In a safe environment, the students will be given the opportunity to deepen their communication skills with standardized, English-speaking patients at times being video recorded to aid in giving feedback.

The course is held by experienced preceptors trained in psychological communication skills and includes the understanding of how cultural and social affiliations influence the relationship and communication between doctor and patient.

"Oncological Rehabilitation Center Bad Trissl" (week four)

Excursion to the "Oncological Rehabilitation Center" in Bad Trissl:

During this day-trip, the participants will attend teaching rounds at an advanced center for rehabilitative medicine, specialized in cancer patients. The focus is on the various treatment approaches, including pain management, psychological and physiotherapeutic treatment options. In addition, the students will learn about the

political, medical, socioeconomic, ethical, and organizational issues inherent in the German health care system in order to encourage thoughtful exchange of information and ideas about the health care systems in Germany and the home countries of the participants.

d) “Friday Seminars”

On Fridays, the international students will attend courses on advanced diagnostics as well as specialized therapeutic approaches and will have the opportunity to learn from medical experts in small-group settings. The following topics will be covered during the four Friday sessions:

“Principles of Oncology”:

- Principles of chemotherapy
- Principles of molecular and targeted therapies
- Supportive treatment
- Teachings rounds

“Diagnostics in oncology”:

- Interactive clinical cases in radiology
- Interventional radiology: “SIRT” – selective internal radio-therapy
- PET-CT: indications in oncology
- Molecular imaging / lab visit

“Meet the Expert” Day:

- Colorectal cancer
- Neuro-endocrine tumors
- AML
- Non-Hodgkin-Lymphomas

“Palliative Care Day”:

- Principles of palliative care
- Pain management

- “Spiritual care” approaches
- Teaching rounds at a hospice

Week 1: General Oncology

Mon	Tue	Wed	Thu	Fri
Introduction 09:00 – 12:00 am	Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	08:00 - 11:00 am Teaching Rounds F 10b (Großhadern)
Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	3:30 - 5:00 pm Clinical Case Discussion	3:00 – 5:00 pm “Tumor Immunology Lab” (Ziemssenstr. 1, INN)	1:30 - 3:30 pm Principles of Oncology F 10b (Großhadern)

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Week 2: Diagnostics in Oncology

Mon	Tue	Wed	Thu	Fri
Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	Diagnostic Procedures in Radiology / Interactive cases Radiology (INN)
Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	3:30 - 5:00 pm Clinical Case Discussion	1:30 – 5:00 pm “Heme/Onc diagnostics lab” (Großhadern)	Interventional Radiology/ Molecular imaging Radiology (INN)

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Week 3: Treatment Approaches in Oncology

Mon	Tue	Wed	Thu	Fri
Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	09:00 – 12:00 am "Meet-the-Expert Seminar" I+II C2.26, Ziemssenstr. 1 (Ärztcasino)
Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	3:30 - 5:00 pm Clinical Case Discussion	3:00 – 5:00 pm "Breaking Bad News" ZeUS Poliklinik Pettenkofenstr. 8a, Simulation- Clinic	1:30 – 4:30 pm "Meet-the-Expert Seminar" III+IV (Großhadern)

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Week 4: Supportive Care

Mon	Tue	Wed	Thu	Fri
Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	08:00 am – 05:00 pm ONKOLOGISCHES KOMPETENZENTRUM OBERAUDORF KLINIK  Bad Trissl	Palliative Care Day (Großhadern)
Ward 22 (INN) or F 10b (Großhadern)	Ward 22 (INN) or F 10b (Großhadern)	3:30 - 5:00 pm Clinical Case Discussion	Excursion to Oncology Clinic Bad Trissl	Palliative Care Day (Großhadern)

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6. Social program

An elective abroad should not consist of academic activities only.

Therefore, we place great emphasis on offering our international students a comprehensive introduction to their host country, in particular to the city of Munich and its beautiful surrounding areas.

For this purpose, the Faculty of Medicine in cooperation with Munich International Summer University (MISU^{LMU}) will offer a number of trips and guided tours to famous sites such as Neuschwanstein Castle and the city of Salzburg in Austria.

Of course, there will be a variety of opportunities to interact with both foreign and German students as well as with the other participants.

7. Target group

The oncology elective addresses senior students who have completed the subject Internal Medicine, e.g. third or fourth year medical students.

8. Additional Information

The participants will receive an information brochure in advance. This booklet will contain all general information on hospitals, preceptors and further contact personnel. It will include information on schedules, transportation and legal requirements.

For further information and registration details please visit our website www.med.uni-muenchen.de/ows or email us on oncology-winter-school@med.uni-muenchen.de.