

UNIVERSITY OF ZAGREB SCHOOL OF MEDICINE

Plan of the course

Clinical Oncology

Academic year **2016/2017**

prof. dr. sc. Nikola Đaković

I. COURSE AIMS

- To give the students the understanding of the etiology, epidemiology and biology of malignant tumours
- To give the students the necessary knowledge of primary and secondary prevention, basic diagnostic methods, histologic classification and TNM classification of the malignant tumours
- To enable the students to take oncologic history and the status of the patient with malignant disease
- To give the students the necessary knowledge of cytotoxic drugs and their appropriate prescription in such a way as to maximize the desirable effects and to minimize the undesirable effects.
- To give the students the necessary knowledge of radiotherapy (teletherapy and brachytherapy), hormonal therapy and immunotherapy, as well as gene therapy, photodynamic therapy, hyperthermal therapy, antiangiogenetic therapy
- To enable the students of multimodal approach to the treatment of malignant diseases and to prevent the undesirable side effects of all the mentioned methods of treatment
- To point out to the students the importance of collaboration with general physicians, as well as in diagnosing as in the treatment of patients with malignant diseases, including the treatment of side effects of all treatment methods
- To stress to the students the importance of team work, of the registry of patients with malignant diseases and of the psychosocial aspects of the approach to the patient with carcinoma
- To give the students the necessary knowledge of treatment of urgent conditions in patients with carcinoma as well as the knowledge of symptomatic therapy in final phase of the malignant disease
- The Course should prepare students to incorporate new information and the use of new treatment methods (radiotherapy, chemotherapy, hormonal therapy, immunotherapy and other new methods such as gene therapy, photodynamic therapy, hyperthermal therapy, antiangiogenetic therapy) into their practice in the on-coming clinical courses, as well as afterwards in their independent work

II. COURSE STRUCTURE

Course hours:

Lectures: 5

Seminar: 10

Special clinical practicals: 45

Total hours: 60

Lectures (L): 5

Seminars (S): 10

Practicals (P): 45

Total: 60

III. PLAN OF THE COURSE AND COURSE SCHEDULE

BLOCKS OF THE COURSE

Number of blocks: 2

Block number	Start	End
1.	28.11.2016	9.12.2016
2.	28.11.2016	9.12.2016

BLOCKS OF THE COURSE

Number of blocks: 2

Block number	Start	End
1.	28.11.2016	9.12.2016
2.	28.11.2016	9.12.2016

BLOCKS OF THE COURSE SCHEME

Block 1

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 28.11.2016.	09:00-10:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Lectures	Introductory lecture, Cancer etiology and epidemiology	prof. dr. sc. Nikola Đaković
	10:30-11:15; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Lectures	Classifications of malignant diseases	izv. prof. dr. sc. Lidija Beketić-Orešković
	11:45-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 1 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Jasna Radić, Jasmina Marić Brozić, dr. med., Angela Prgomet Sečan
Tuesday 29.11.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Diagnostic imaging: oncology	prof. dr. sc. Nikola Đaković
	09:45-10:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Mechanisms involved in the therapy of malignant disease	izv. prof. dr. sc. Lidija Beketić-Orešković
	11:00-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 2 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Blanka Jakšić, Davor Kust, doc. dr. sc. Neda Pjevač
Wednesday 30.11.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Cytological and patohistological diagnosis in oncology	prof. dr. sc. Nikola Đaković

Date	Time	Group	Course hours type	Theme	Teaching staff
	10:15-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 3 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Jasmina Marić Brozić, dr. med., Marijana Jazvić, dr. med., Angela Prgomet Sečan
Thursday 1.12.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Lectures	Principles of clinical radiotherapy and radiobiology	izv. prof. dr. sc. Lidija Beketić-Orešković
	10:15-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 4 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Jasmina Marić Brozić, dr. med., doc. dr. sc. Neda Pjevač, Marin Prpić
Friday 2.12.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Lectures	Principles of chemotherapy and hormonal therapy	izv. prof. dr. sc. Lidija Beketić-Orešković
	09:45-10:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Immunotherapy	prof. dr. sc. Nikola Đaković
	11:00-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 5 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Angela Prgomet Sečan, Davor Kust, Marijana Jazvić, dr. med.
Monday 5.12.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Multidisciplinary approach in oncology	prof. dr. sc. Nikola Đaković
	09:45-10:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Indications for multimodal treatment	izv. prof. dr. sc. Lidija Beketić-Orešković
	11:00-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 6 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, doc. dr. sc. Neda Pjevač, Angela Prgomet Sečan, Blanka Jakšić
Tuesday 6.12.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Urgent conditions in oncology	izv. prof. dr. sc. Lidija Beketić-Orešković

Date	Time	Group	Course hours type	Theme	Teaching staff
	10:15-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 7 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Jasmina Marić Brozić, dr. med., Marijana Jazvić, dr. med., dr. sc. Lijerka Markulin-Grgić
Wednesday 7.12.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Clinical follow-up	prof. dr. sc. Nikola Đaković
	10:15-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 8 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Jasna Radić, Marijana Jazvić, dr. med., doc. dr. sc. Neda Pjevač
Thursday 8.12.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Palliativa care, symptomatic therapy	prof. dr. sc. Nikola Đaković
	10:15-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 9 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, Marin Prpić, Jasna Radić, Davor Kust
Friday 9.12.2016.	09:00-09:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Seminar	Organization of medical care for oncological patients in the primary and secondary health care	izv. prof. dr. sc. Lidija Beketić-Orešković
	10:15-14:00; KBSM, Klinika za onkologiju i nuklearnu medicinu	A	Special clinical practicals	Practicals 10 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	prof. dr. sc. Nikola Đaković, izv. prof. dr. sc. Lidija Beketić-Orešković, dr. sc. Lijerka Markulin-Grgić, Nina Dabelić, doc. dr. sc. Neda Pjevač

Block 2

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 28.11.2016.	09:00-10:30; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Lectures	Introductory lecture, Cancer etiology and epidemiology	izv. prof. dr. sc. Fedor Šantek
	10:30-11:15; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Lectures	Classifications of malignant diseases	prof. dr. sc. Antonio Juretić

Date	Time	Group	Course hours type	Theme	Teaching staff
	11:45-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 1 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Marija Gamulin, dr. med., Martina Bašić-Koretić, dr. med., doc. dr. sc. Neda Pjevač
Tuesday 29.11.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Diagnostic imaging: oncology	prof. dr. sc. Antonio Juretić
	09:45-10:30; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Mechanisms involved in the therapy of malignant disease	izv. prof. dr. sc. Fedor Šantek
	11:00-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 2 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, doc. dr. sc. Josip Joakim Grah, Martina Bašić-Koretić, dr. med., Nera Šarić
Wednesday 30.11.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Cytological and patohistological diagnosis in oncology	izv. prof. dr. sc. Fedor Šantek
	10:15-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 3 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Marija Gamulin, dr. med., Krešimir Lončar, doc. dr. sc. Neda Pjevač
Thursday 1.12.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Lectures	Principles of clinical radiotherapy and radiobiology	izv. prof. dr. sc. Fedor Šantek
	10:15-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 4 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Vesna Bišof, Martina Bašić-Koretić, dr. med., Lea Galunić Bilić, dr. med.
Friday 2.12.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Lectures	Principles of chemotherapy and hormonal therapy	izv. prof. dr. sc. Fedor Šantek

Date	Time	Group	Course hours type	Theme	Teaching staff
	09:45-10:30; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Immunotherapy	prof. dr. sc. Antonio Juretić
	11:00-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 5 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Marija Gamulin, dr. med., Krešimir Lončar, doc. dr. sc. Neda Pjevač
Monday 5.12.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Multidisciplinary approach in oncology	prof. dr. sc. Antonio Juretić
	09:45-10:30; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Indications for multimodal treatment	izv. prof. dr. sc. Fedor Šantek
	11:00-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	A	Special clinical practicals	Practicals 6 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Nera Šarić, Krešimir Lončar, Martina Bašić-Koretić, dr. med.
Tuesday 6.12.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Urgent conditions in oncology	prof. dr. sc. Antonio Juretić
	10:15-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 7 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Milena Peitl, dr. med., Lea Galunić Bilić, dr. med., doc. dr. sc. Neda Pjevač
Wednesday 7.12.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Clinical follow-up	izv. prof. dr. sc. Fedor Šantek
	10:15-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 8 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Martina Bašić-Koretić, dr. med., Zoran Rakušić, Nera Šarić
Thursday 8.12.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Palliativa care, symptomatic therapy	izv. prof. dr. sc. Fedor Šantek

Date	Time	Group	Course hours type	Theme	Teaching staff
	10:15-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 9 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Marija Gamulin, dr. med., Zoran Rakušić, doc. dr. sc. Neda Pjevač
Friday 9.12.2016.	09:00-09:45; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Seminar	Organization of medical care for oncological patients in the primary and secondary health care	izv. prof. dr. sc. Fedor Šantek
	10:15-14:00; KBC, Klinika za onkologiju, predavaona radioterapijska onkologija	B	Special clinical practicals	Practicals 10 (Evaluation of patients with different cancers, application of diagnostic procedures, therapies, educational ward-round, practical clinical skills)	izv. prof. dr. sc. Fedor Šantek, prof. dr. sc. Antonio Juretić, Martina Bašić-Koretić, dr. med., doc. dr. sc. Josip Joakim Grah, Vesna Bišof

IV. EXAMINATIONS

Types of examination and examination dates

-Oral exam (usually 5 - 7 questions)

-Credits: 5, 4, 3, 2, fail

-Final Course Grade: calculated from oral exam credits

5 = excellent (A)

4 = very good (B)

3 = good (C)

2 = satisfactory (D)

1 = fail (F)

Regular terms

Date

Winter

16.01.17.-20.01.17.

Summer 05.06.17.-9.06.17.

Autumn 11.09.17.-15.09.17.

Additional terms

1. 19.12.16.-23.12.16.

2. 13.02.17.- 17.02.17.

13.03.17.-17.03.17.

4. 8.05.17.-12.05.17.

V./I. LIST OF LECTURERS AND TEACHING STAFF

1. prof. dr. sc. Nikola Đaković

2. izv. prof. dr. sc. Fedor Šantek

3. prof. dr. sc. Antonio Juretić

4. izv. prof. dr. sc. Lidija Beketić-Orešković

5. doc. dr. sc. Neda Pjevač

V./II EXTERNAL ASSOCIATES:

1. dr. sc. Lijerka Markulin-Grgić

2. Zoran Rakušić

3. Martina Bašić-Koretić, dr. med.

4. Krešimir Lončar

5. doc. dr. sc. Josip Joakim Grah

6. Jasna Radić

7. Marijana Jazvić, dr. med.

8. Vesna Bišof

9. mr. sc. Paula Podolski

10. Nera Šarić

11. izv. prof. dr. sc. Ana Froebe

12. Marin Prpić

13. Blanka Jakšić

14. Nina Dabelić

15. Davor Kust
16. Angela Prgomet Sečan
17. Milena Peitl, dr. med.
18. Lea Galunić Bilić, dr. med.

V./III UNTENURED LECTURERS:

1. Marija Gamulin, dr. med.
2. Jasmina Marić Brozić, dr. med.

VI. LITERATURE

1. Obligatory

-Text Book OXFORD HANDBOOK OF ONCOLOGY / edited by Jim Cassidy et. Al
Third edition, Oxford: Oxford University Press 2010.

B. Additional

- Handouts for seminars and practical work
- Additional readings (when suggested by the lecturer)
- Use of internet