



Univerza v Mariboru
University of Maribor

Medicinska fakulteta
Faculty of Medicine



UČNI NAČRT PREDMETA / SUBJECT SPECIFICATION

Predmet:	Onkologija in radioterapija
Subject Title:	Oncology and radiotherapy

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Splošna medicina General medicine - EMŠP		6	11

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	klin. vaje clin work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
15	30		15		90	5

Nosilec predmeta / Lecturer:

Doc. dr. Peter Albert Fras
Doc. dr. Marko Hočevár
Doc. dr. Irena Oblak

Jeziki /
Languages:

Predavanja /
Lecture:
Vaje / Tutorial:

Slovenski/slovene
Slovenski/slovene

Pogoji za vključitev v delo oz. za
opravljanje študijskih obveznosti:

Prerequisites:

Vsebina:

Splošna onkologija. Biologija, genetika in patologija raka. Epidemiologija in primarna preventiva rakavih bolezni. Kemopreventiva, presejanje (»screening«) in zgodnje odkrivanje raka. Mikroskopska verifikacija in zamejitev bolezni. Načela kirurškega, obsevalnega in sistemskega zdravljenja raka. Biološki načini zdravljenja raka. Načela kliničnega raziskovanja v onkologiji. Opredelitev ciljev zdravljenja: ozdravitev, remisija, simptomatsko (paliativno) zdravljenje. Multidisciplinarno odločanje, načela multimodalnega zdravljenja in soodločanje bolnika. Urgentna stanja v onkologiji in zapleti onkološkega zdravljenja. Rehabilitacija in ocenjevanje kvalitete

Content (Syllabus outline):

General oncology: Biology, genetics and pathology of malignant diseases. Epidemiology and primary prevention of cancer diseases. Chemoprevention, screening and early detection of cancer. Microscopic verification and staging of the disease. Principles of surgical, radiotherapeutic and systemic treatment of cancer. Treatment of cancer by biological means. The principles of clinical research in oncology. Definition of treatment results, such as cure, remission, symptomatic (palliative) treatment. Multidisciplinary approach in decision making, principles of multimodal treatment and patients cooperation. Urgent situation in oncology and complications during treatment. Rehabilitation

življenja. Načela in praktični napotki za paliativno zdravljenje: zdravljenje bolečine, prehrana, preprosti posegi - razbremenilna plevralna in abdominalna punkcija. Sekundarni maligni tumorji. Alternativne metode zdravljenja v onkologiji. Specialna onkologija. Karcinom kože in maligni melanom. Rak glave in vratu. Rak ščitnice in drugi tumorji endokrinih žlez. Pljučni rak. Rak požiralnika in želodca. Rak debelega črevesa in danke. Rak jeter in trebušne slinavke. Rak ledvice in mehurja. Rak prostate. Tumorji testisa. Rak dojke. Rak materničnega vratu, maternice in jajčnikov. Možganski tumorji. Rak neznanega izvora. Levkemije, limfomi in druge mieloproliferativne bolezni. Sarkomi mehkih tkiv in kosti. Otroška onkologija. Rak pri starejših bolnikih.

and determination of the quality of life. Principles and practical suggestions for palliative treatment: pain control, diet, simple surgical intervention, e. g. pleural and abdominal fluid evacuation. Secondary malignancies. Alternative methods in oncology. Special oncology: Skin cancer and malignant melanoma. Head and neck tumors. Thyroid cancer and other malignancies of endocrine glands. Lung cancer. Oesophageal and gastric carcinomas. Tumors of the colon and anus. Liver and pancreatic tumors. Kidney and urinary bladder cancer. Prostatic and breast cancer. Testicular tumours. Cervical cancer, cancer of the uterus and ovarian cancer. Origo ignota malignancies. Leukemias, lymphomas and other myeloproliferative diseases. Soft tissue and bone sarcomas. Pediatric oncology. Malignancies in elderly people.

Temeljni literatura in viri / Textbooks:

- Pollock RE, ur.: UICC Manual of clinical oncology, 7th edition. John Wiley and Sons, 1999. (nova izdaja v pripravi)
- Fras AP, ur: Onkologija. Didakta, Radovljica 1995 (nova izdaja v pripravi)

Cilji:

Na osnovi že prej pridobljenega znanja bo študent zgradil okvir za multidisciplinarno delo v onkologiji. Spoznal bo osnovne smernice za diagnostiko rakavih bolezni, zamejevanje bolezni in odločitev o zdravljenju. Obnovil bo načela kirurškega zdravljenja raka, nato pa se bo posebej posvetil osnovam radioterapije, internistične onkologije in načelom kombiniranega multimodalnega zdravljenja. Spoznal bo osnove rehabilitacije in paliativne onkologije.

Objectives:

Based on previous acquired knowledge the undergraduate will be able to form his/her frame for the multidisciplinary approach in oncology. The undergraduates knowledge of basic directive in oncological diagnostics will permit him to asses the degree of disease extension and consequently the appropriate treatment scheme. Based on the acquired knowledge of surgery the candidate will pay particular attention to the treatment with radiotherapy, systemic medical treatment and combined multimodal treatment. Rehabilitation and palliative treatment will be part of the candidates educative programme as well.

Predvideni študijski rezultati:

Znanje in razumevanje:

Po uspešno zaključenem programu bo kandidat sposoben sodelovati v onkoloških strokovnih skupinah, timih, pri diagnosticiranju in tretiranju bolnikov z rakavo boleznijo. Na osnovi praktičnih izkušenj, ki si jih bo pridobil v bolnišničnem delu, bo kandidat pridobil potrebno znanje, ki mu bo v celoti omogočilo samostojno delo.

Intended learning outcomes:

Knowledge and Understanding:

After a successful completion of the programme the candidate will be qualified to collaborate in oncological teams in diagnosing and treatment planning of cancer diseases. Based on candidates practical experience gained during following hospital activity, the candidate will acquire the necessary practical and theoretical knowledge which will enable him/her also for individual activities and responsibilities in cancer hospital.

Prenesljive/ključne spretnosti in drugi atributi:

Na osnovi pridobljenega teoretičnega znanja in praktične izkušnosti se kandidat kvalificira za prenašanje svojega znanja, to je učenja, slušateljem na šolah, kjer je onkologija v programu študija.

Metode poučevanja in učenja:

Transferable/Key Skills and other attributes:
Based on the acquired theoretical knowledge and practical experience the candidate will qualify as a teacher at schools and courses, where oncology is a regular part of schools teaching programme.

Learning and teaching methods:

Med te sodijo čelna predavanja, seminarji, klinično delo pri bolnikih in individualna seminarska dela na temah, ki se tičejo tega predmeta

Among them are full length lectures, seminars, clinical approach with patients and individual seminars with the presentation and discussion in the class.

Načini ocenjevanja:

Delež (v %) / **Assessment:**
Weight (in %)

Način (pisni izpit, ustno izpraševanje, naloge, projekt)		Type (examination, oral, coursework, project):
Seminarska naloga	50	Course work
Ustni izpit	50	Oral examination