[Medicinski fakultet u Rijeci]

Curriculum
2022/2023

[Za kolegij]

Pathogenesis of Thermal Injuries

Study program:	**Medical Studies in English (R)** (elective) [Sveučilišni integrirani prijediplomski i diplomski studij]
Department:	**[Katedra za fiziologiju, imunologiju i patofiziologiju]**
Course coordinator:	**prof. dr. sc. Mrakovčić-Šutić Ines, dr. med.**
Year of study:	**5**
ECTS:	**1.5**
Incentive ECTS:	**0 (0.00%)**
Foreign language:	**Possibility of teaching in a foreign language**

Course information:

The aim of the course is to acquaint medical students with the etiology, pathophysiological picture and consequences of burns and frostbite. Thermal injuries affect the skin and deeper parts of the tissue, destroying biological tissue, opening the way for the development of infection, and causing multiple hemodynamic, endocrine, renal and metabolic disorders.

Our task is to educate the future doctor of general medicine in the proper approach to such difficult patients, of which there are unfortunately more and more in the modern technologically developed society, realizing the importance of a proper and quick reaction for the patient's life, health and ability to work.

During this course, students will be trained to independently manage minor injuries, which are most often treated on an outpatient basis, and an effort will be made to provide them with an insight into the treatment of serious injuries, as well as a presentation of old injuries with all their consequences.

At the end of the course, the student should be able to:

1. independently characterize the type of injury

2. classify burns/frostbite, judge the state of the organism, and observe disorders of the function of individual organ systems

3. notice the disturbance of the electrolyte status and know how it can be corrected

4. observe pathological changes in other organ systems and know how to provide first aid on the spot

5. observe the possible existence of chronic diseases that can further complicate the recovery of burned/frozen patients

At the end of the course, the student is expected to be able to:

1. perform self-cleaning of the wounds of burned/frozen patients

2. provide analgesia when treating pain

3. diagnose «compartment» sy and participate in its surgical solution, in terms of decompression

4. bandage burns of different degrees

5. be familiar with taking free skin grafts

6. to be familiar with the necrectomy of burned surfaces

7. perform hydrotherapy

8. be familiar with physical rehabilitation

9. be familiar with the correction of functional contractures as a result of burns

List of assigned reading:

1. Scuderi N: Chirurgia plastica 1985 di Piccin, Nuova Libraria, S.p.A. Padova (selected chapters)
2. Gamulin S, Marušić M, Kovač Z i sur. Patophysiology, Medicinska naklada, peto izdanje, Zagreb, 2005 (selected chapters)

List of optional reading:

1. Babcock GF: Predictive medicine: severe trauma and burns. Cytometry B Clin Cytom. 2003 ;53(1):48-53.

2. Edwards-Jones V, Greenwood JE: What's new in burn microbiology? James Laing Memorial Prize Essay 2000. Burns..2003 ;29(1):15-24.

3. Schwacha MG: Macrophages and post-burn immune dysfunction. Burns. 2003;29(1):1-14.

4. Carsin H, Bargues L, Stephanazzi J, Paris A, Aubert P, Le Bever H: Inflammatory reaction and infection in severe burns. Pathol Biol (Paris). 2002;50(2):93-101.

5. Lederer JA, Rodrick ML, Mannick JA.: The effects of injury on the adaptive immune response. Shock. 1999;11(3):153-9.

Curriculum:

Student obligations:

Regular class attendance, writing a seminar paper

Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):

The final grade of the student's knowledge is formed on the basis of the grade acquired during the course (70% of the total grade) and on the basis of the knowledge test at the final exam (30% of the total grade). During the classes, the student's work will be evaluated and evaluated on the basis of a seminar paper that students make in small groups and present during the seminar.

Other notes (related to the course) important for students:

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COURSE HOURS 2022/2023

Pathogenesis of Thermal Injuries

List of lectures, seminars and practicals:

EXAM DATES (final exam):
