



Information about the subject

Degree: Bachelor of Science Degree in Podiatry

Faculty: Faculty of Medicine and Health Sciences

Code: 470303 **Name:** Podiatric Surgery I

Credits: 6,00 **ECTS Year:** 3 **Semester:** 1

Module: CHIROPODOLOGY AND PODIATRIC SURGERY

Subject Matter: Surgery **Type:** Compulsory

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

CHIROPODOLOGY AND PODIATRIC SURGERY

Subject Matter	ECTS	Subject	ECTS	Year/semester
Chiropodology	12,00	Chiropody I	6,00	2/1
		Chiropody II	6,00	2/2
Surgery	12,00	Podiatric Surgery I	6,00	3/1
		Podiatric Surgery II	6,00	3/2
Anesthesia and Resuscitation	6,00	Anaesthesia and Resuscitation	6,00	3/1

Recommended knowledge

There is no recommended knowledge



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 The student decides the indication of the surgical treatment of nail and soft tissue pathologies of clinical case series.
- R2 The student handles the operating room protocols for personnel and equipment.
- R3 The student knows and handles the surgical instruments used in nail and soft tissue surgery.
- R4 The student performs the pre-surgical protocol in different exposed clinical cases.
- R5 The student performs nail surgery procedures on finger simulators.
- R6 The student performs soft tissue surgery procedures on skin simulators.
- R7 The student guides protocols for post-surgical care in nail and soft tissue surgery in different exposed clinical cases.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB3	Students have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include reflection on relevant social, scientific or ethical issues.				X
CB5	Students develop those learning skills necessary to undertake further studies with a high degree of autonomy.				X

GENERAL		Weighting			
		1	2	3	4
CG2	Students know the structure and function of the human body, especially of the lower limb, semiology, mechanisms, causes and general manifestations of the disease and diagnostic methods of medical and surgical pathological processes, interrelating general pathology with foot pathology.				X
CG3	Students develop the capacity, ability and skill necessary to diagnose, prescribe, indicate, perform and/or elaborate and evaluate any type of podiatric, orthopedic, chiropractic, podiatric surgery, physical, pharmacological, preventive and/or educational treatment, based on the clinical history.				X
CG6	Students acquire the ability to perform patient-centred clinical management, health economics and efficient use of health resources, as well as effective management of clinical documentation, with particular attention to confidentiality.				X
CG9	Students critically assess the terminology, clinical trials and methodology used in podology-related research.				X

SPECIFIC		Weighting			
		1	2	3	4



CE53	Students know and use instruments in surgery and chiropodology, sterilization methods and culture sampling.				X
CE55	Students know and apply complementary tests in chiropodology. Students study and evaluate the patient for chiropodological treatments. Students carry out diagnostic protocols and cataloguing of surgical risk.	X			
CE56	Students know and apply technical procedures and skills in podiatric surgery. They know how to diagnose foot pathology with surgical indication.				X
CE57	Students know and use the clinical history, assess and apply the preoperative protocol and informed consent.			X	
CE59	Students know and obtain skills in the application of podiatric techniques of nail surgery, podiatric soft tissue surgery, bone and joint surgery of the foot.				X
CE61	Students know and use the techniques of exploration, diagnosis and treatment of the tumors in the foot. Students know how to treat the complications and side effects derived from the application of podiatry and chiropractic surgery techniques.				X

TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Analytical capabilities				X
CT7	Problem solving				X
CT8	Decision making				X
CT9	Teamwork		X		
CT10	Interdisciplinary teamwork			X	
CT14	Critical Reasoning				X
CT15	Ethical commitment				X
CT16	Autonomous learning			X	



CT17 Adaptation to new situations

x

CT22 Motivation for quality

x



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6, R7	20,00%	Open questions
R1, R2, R3, R4, R5, R6, R7	60,00%	Tests
R1, R2, R3, R4, R5, R6, R7	20,00%	Practice exam- technical proficiency testing

Observations

The **Open Questions** will consist of two short answer questions. This test is worth 20% of the total.

The **multiple choice test** will consist of an exam of 40 multiple choice multiple choice questions (four options as an answer of which only one will be correct). Each wrong answer will subtract 0.33 (so three wrong answers will subtract one correct answer). This test is worth 60% of the total.

The Open Questions Test and the Multiple Choice Test are carried out at the same time. Both tests correspond to the Theoretical Exam, which is worth 80% of the total grade, which is 8 out of 10. It will be necessary to pass this part to take the Practical Exam (this part is considered approved when obtaining a 4 of the 8 points it is worth). The student will have 90 minutes to respond to both parts.

The **practical exam** will consist of an oral exam in which the practical skills acquired will be demonstrated. It will consist of questions about the skills developed in the practical sessions. The skill developed will be assigned by lottery at the time of the exam. There will be no time limit to take this exam. This test is worth 20% of the total.

Participation in class, understood as attendance to the theoretical and practical classes, is not mandatory to be able to take the Open Questions Test and the multiple choice test or the practical exam, nor does it score on the final grade.

MINIMUM REQUIREMENTS TO PASS THE SUBJECT:

To pass the course you must pass the theoretical exam (open questions and multiple choice test) and the practical exam. In case of passing the Theoretical Exam and the Practical Exam not in the first call, the note of the Theoretical Exam will be saved for the second call. If the theoretical exam is not passed in the first call, the practical exam will not be carried out and the course will not be passed. In this case, it will be necessary to repeat the Theoretical Exam on second call and take the Practical Exam only if it is approved.



MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Theoretical classes (TC). Training activity preferably oriented to the acquisition of knowledge skills. It is characterised by the fact that students are spoken to. Also called master class or expository class, it refers to the oral exposition made by the teacher, (with the support of a blackboard, computer and cannon for the exposition of texts, graphics, etc.).
- M2 Seminars (S). Training activity preferably oriented to obtain knowledge application and research competences. Knowledge is built through interaction and activity. Consisting of supervised monographic sessions with shared participation (Teachers, students, experts). The size of the group is variable, from a large group to small groups, no less than 6 students for interaction. The evaluation will be made by means of follow-up records by the teacher. Participation and development of problem-solving skills should be taken into account.
- M4 Classroom practice (CPA). Training activity of work in groups that is developed in the classroom. It includes work with documents (e.g.: work with articles or documents, clinical case studies, diagnostic analyses, etc). The size of the group is variable, in a range of 10-20 students.
- M6 Laboratory Practice (CPL). Training activity of work in groups that is developed in the Laboratory. It includes the sessions where students actively and autonomously develop, supervised by the teacher, laboratory experiments. The size of the group is variable, in a range of 10-20 students.



- M7 Tutorials (T). Set of activities carried out by the teacher with personalised attention to the student or in small groups with the aim of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc. The aim is to ensure that education is truly a comprehensive training of the student and is not reduced to a transfer of information. It is, therefore, a personalized relationship of help in which the teacher-tutor attends, facilitates and guides one or more students in the formative process.
- M8 Evaluation (Ev). It is the set of processes that try to evaluate the learning results obtained by the students and expressed in terms of acquired knowledge, capacities, developed skills or abilities and manifested attitudes. It covers a wide range of activities that can be developed for students to demonstrate their training (e.g. written, oral and practical tests, projects or assignments,). It also includes Official Calls.
- M10 Estudio del alumno: Preparación individual de lecturas, ensayos, resolución de problemas, seminarios

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons M1	R1, R2, R3, R4, R5, R6, R7	48,00	1,92
Practice lessons M4, M6	R1, R2, R3, R4, R5, R6, R7	9,00	0,36
Evaluation M8	R1, R2, R3, R4, R5, R6, R7	3,00	0,12
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work M10		90,00	3,60
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Introduction	Introduction
Operating room and sterilization	Operating room Sterilization concepts Surgical instrumentation
Sutures	Sutures
Presurgical and postsurgical protocol	Presurgical and postsurgical protocol
Nail surgery	Nail surgery techniques without soft tissue involvement Nail surgery techniques with soft tissue involvement Chemical nail surgery techniques Nail surgery techniques in relapses Nail surgery techniques for total ablations and matricectomies Nail surgery techniques for subungual exostoses and chondromas
Soft tissue surgery	Foot wart surgery techniques Benign Foot Tumor Surgery Techniques Skin plasties used in podiatric surgery Tenotomies Neuroma surgery techniques



Temporary organization of learning:

Block of content	Number of sessions	Hours
Introduction	1,00	2,00
Operating room and sterilization	2,00	4,00
Sutures	6,00	12,00
Presurgical and postsurgical protocol	1,00	2,00
Nail surgery	10,00	20,00
Soft tissue surgery	10,00	20,00



References

BASIC REFERENCES

- 1.Crawford ME, Dockery GD. Lower extremity soft tissue & cutaneous plastic surgery. Saunders Elsevier, 2012.
- 2.Martinez A. Podología. Atlas de cirugía ungueal. Madrid: Elsevier, 2006
- 3.Izquierdo Cases, Joaquín Oscar. Podología quirúrgica. Madrid: Elsevier, 2006.
- 4.García Carmona FJ, Fernández Morato D. Tratamiento quirúrgico de la onicocriptosis. Madrid: Aula Médica.
- 5.García Carmona FJ, Fernández Morato D. Abordaje quirúrgico de la patología subungueal. Madrid: Aula Médica, 2005.
- 6.Thomson, Telford. Assisting at podiatric surgery: a guide for podiatric surgical students and podiatric theatre assistants. Edinburgh: Churchill Livingstone, 2002

COMPLEMENTARY REFERENCES

- 1.Song D.H. , Neligan PC. Plastic surgery. Lower extremity, Trunk and burns.3th Ed. Elsevier, 2013.
- 2.Baran R, Zook E, Eckart H, Krull EA. Nail Surgery: A Text and Atlas. Lippincott Williams & Wilkins, 2001
- 3.Richard Scher, C. Ralph Daniel Nails. Diagnosis, Therapy, Surgery. 3 Ed. Saunders, 2005.
- 4.Banks, A.S. (ed.) McGlamry's forefoot surgery; Philadelphia (Pa.): Lippincott Williams & Wilkins, cop. 2004
- 5.Nieto García, E. [et al.] Cirugía podológica: técnicas de mínima incisión. Madrid: Mileto, cop. 2004

ELECTRONIC RESOURCES

- 1.Ferrer Torregrosa J, García Carmona J, Martos Medina, D. Principios básicos en cirugía podológica [DVD]: onicocriptosis. Valencia. 2009.
- 2.Ferrer Torregrosa J, García Carmona J. Principios básicos en cirugía podológica [DVD]: exóstosis subungueal. Valencia. 2010.

SCIENTIFIC PAPERS

- 1.Ikard RW. Onicocriptosis. J Am Coll Surg 1998; 187: 96-102.
- 2.Mozena JD. The Mozena classification system and treatment algorithm for
- 3.ingrown hallux nails. J Am Pod Med Assoc 2002; 92: 131-135.
- 4.Wu KK. Large osteochondroma of the foot. J Foot Surg 1990; 29: 88-93.
- 5.Herold N, Houshian S, Riegels-Nielsen P. A prospective comparison of wedge matrix resection with nail matrix phenolization for the treatment of ingrown toenail. J Foot Ankle Surg 2001; 40: 390-395.
- 6.Espensen EH, Nixon BP, Armstrong DG. Chemical matrixectomy for ingrown toenails: is there an evidence basis to guide therapy? J Am Podiatr Med Assoc 2002; 92: 287-295.
- 7.Andreassi A, Grimaldi L, D'Aniello C, Pianigiani E, Bilenchi R. Segmental phenolization for the treatment of ingrowing toenails: a review of 6 years experience. J Dermatol Treat 2004; 15: 179-81.



8. Rounding C, Hulm S. Surgical treatments for ingrowing toenails. Cochrane Database Syst Rev 2000; (2): CD001541.

9. Bostanci S, Ekmekci P, Gurgey E. Chemical matricectomy with phenol for the treatment of ingrowing toenail: a review of the literature and follow-up of 172 treated patients. Acta Derm Venereol 2001; 81: 181-183.

10. Kimata Y, Uetake M, Tsukada S, Harii K. Follow-up study of patients treated for ingrown nails with the nail matrix phenolization method. Plast Reconstr Surg 1995; 95: 719-724.

11. Giacalone VF. Phenol matricectomy in patients with diabetes. J Foot Ankle Surg 1997; 36: 264-67

12. Ozdemir E, Bostanci S, Ekmekci P, Gurgey E. Chemical matricectomy with 10% sodium hydroxide for the treatment of ingrowing toenails. Dermatol Surg 2004; 30: 26- 31.

13. Persichetti P, Simone P, Li Vecchi G, Di Lella F, Cagli B, Marangi GF. Wedge excision of the nail fold in the treatment of ingrown toenail. Ann Plast Surg 2004; 52: 617-620.

14. Yang KC, Li YT. Treatment of recurrent ingrown great toenail associated with granulation tissue by partial nail avulsion followed by matricectomy with sharpulse carbon dioxide laser. Dermatol Surg 2002; 28: 419-421.

15. Porthouse J, Torgerson DJ. The need for randomized controlled trials in podiatric medical research. J Am Podiatr Assoc 2004; 94: 221-228.



Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☐ Kaltura



Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒ Microsoft Teams

☐ Kaltura

Explanation about the practical sessions:

The practical sessions will consist of videos on practical skills that will be posted on the UCVnet platform.



2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System:

The practical exam, if it cannot be done in person, will consist of a theoretical test of the videos presented on practical skills, via the UCVnet platform. It will consist of four short theoretical questions, development. The time that will be allowed to complete the exam will be 20 minutes.

The Open Questions and multiple choice test (theoretical exam) will be carried out via the UCVnet platform and the response time will be limited to 80 minutes.



Universidad
**Católica de
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Course guide

Year 2023/2024
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