

**COURSE DATA****Data Subject**

Code	34494
Name	Clinical anatomy
Cycle	Grade
ECTS Credits	4.5
Academic year	2019 - 2020

Study (s)

Degree	Center	Acad. year	Period
1204 - Degree in Medicine	Faculty of Medicine and Odontology	2	Second term

Subject-matter

Degree	Subject-matter	Character
1204 - Degree in Medicine	18 - Optional subjects	Optional

Coordination

Name	Department
APARICIO BELLVER, LUIS	17 - Human Anatomy and Embryology

SUMMARY

The Human Anatomy is one of the foundations by which the education of our Medicine students is built; however, the academic programs, with few hours, cannot cover the important interrelation of the Anatomy with the Clinic. The introduction of the new diagnosis and images techniques have made of the Anatomy an even more exact science and have moved the anatomical discipline to the field of the Clinical Anatomy.

In this discipline, the distance between normal general Anatomy and the clinical implications of the Anatomy, which are very frequent and quite a few, is kept, as well as the anatomical variations arising in the formation of the human body, variations that can produce clinical disorders and which the Medicine student must know and learn without any doubt.



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

It is recommended students approved the subject of Anatomy of 1st grade.

OUTCOMES

1204 - Degree in Medicine

- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Understand and recognise the structure and normal function of the human body, at the following levels: molecular, tissue, organic, and of systems, in each phase of human life and in both sexes.
- Proper organisation and planning of the workload and timing in professional activities.
- Team-working skills and engaging with other people in the same line of work or different.
- Criticism and self-criticism skills.
- Capacity for communicating with professional circles from other domains.
- Acknowledge diversity and multiculturality.
- Consideration of ethics as a fundamental value in the professional practise.
- Working capacity to function in an international context.

LEARNING OUTCOMES

Once the subject is finished the student must be able to:

1. Know how to find the injuries with disorders of the anatomical organs; some of the diseases are produced by anatomical injuries, and most of the diseases are produced equally by compressions of the near viscera.
2. Know that the relation of the anatomy with the clinic is so evident that we should know the first one in order to correlate the clinical symptoms with anatomical disorders.



3. Likewise, the anatomical variations, that represent approximately more than the 10-15 %, can produce disorders in our organs and viscera, so we have to know the more frequent known variations and to intervene in the observation, casuistry and research to analyze and look for the non-described variations until now.

4. Create a clinical and analytical conscience to know how to observe and think, in which a clinical disorder can trigger more clinical disorders, which have their origin in an anatomical disorder.

DESCRIPTION OF CONTENTS

1. THEORY

1. Introduction to Clinical anatomy. Types of anatomy. Diagnostic methods.
2. Human body formation. Stages. Embryo development week by week.
3. Embryo-fetal malformations.
4. Skeletal system. Ossification. Chronology.
5. Morphological and numerical variations of the back bone.
6. Back bone. Disorders.
7. Clinical anatomy of the backbone.
8. Lumbar and lumbosacral plexus. Clinical anatomy.
9. Clinical anatomy of the lower limb.
10. Brachial plexus. Clinical anatomy.
11. Clinical anatomy of the upper limb.
12. Clinical anatomy of the thorax. Respiratory ducts.
13. Clinical anatomy of the thorax. Circulatory.
14. Clinical anatomy of the breast.
15. Clinical anatomy of the abdomen. Digestive.
16. Clinical anatomy of the abdomen. Vascular, renal, urinary, diaphragm, walls.
17. Clinical Anatomy of the neck and head.

2. PRACTICES

SEMINARS

1. Backbone. Clinical Alterations. Images. RX, TC and RM. 2.- Fulfillment of images notebook.
3. RX, TC and RM of lower limb.
4. Fulfillment of images notebook.
5. R.X. Upper limb.- TC and RM Upper limb.
6. Fulfillment of images notebook.
7. R.X. Thorax. T.C and RM of the Thorax.
8. Fulfillment of images notebook.
9. R.X. simple Abdomen, contrast, TC and RM.
10. Fulfillment of images notebook.
11. R.X, TC and RM of the Neck and Head.
12. Fulfillment of images notebook.



TUTORIALS

WORKLOAD

ACTIVITY	Hours	% To be attended
Seminars	22,00	100
Theory classes	19,00	100
Tutorials	4,00	100
Attendance at events and external activities	7,00	0
Development of individual work	5,00	0
Study and independent work	23,50	0
Readings supplementary material	5,00	0
Preparation of evaluation activities	7,00	0
Preparation of practical classes and problem	10,00	0
Resolution of case studies	5,00	0
Resolution of online questionnaires	5,00	0
TOTAL	112,50	

TEACHING METHODOLOGY

Theoretical classes, the teacher will expose through masterclass, the concepts and most important content in a structured way, to obtain the knowledge and skills that students should acquire. It will boost the participation of the students. Available teaching material used by the Professor, if it deems appropriate, from the electronic resource Aula Virtual.

Classes classroom practices. **Seminars**: in small groups the professor will pose the subjects in depth, case studies, current affairs. It will enhance teamwork.

EVALUATION

Theoretical evaluation: 60% of the final score. It will be done through a written test which will be useful to assess knowledge acquisition and which will consist of contents on the theoretical programme. The exam will comprise multiple choice questions, and wrong answers will not penalise.

Practical evaluation: 40% of the final score. It will consist of the elaboration of an individual assignment regarding an issue on Anatomy, its application or clinical impact.



Students must obtain 4 out of 10 points in the theoretical assessment.

In order to access to an advance on the call of this subject, it is a requirement that the student has coursed all his/her practices.

Attendance of practices will be compulsory.

REFERENCES

Basic

- Moore, Daller II. Anatomía con Orientación Clínica. Ed. Panamericana. 2009
- Lipper: Anatomía con orientación clínica para estudiantes. Ed. Marban. 2009
- Pró: Anatomía Clínica. Ed. Panamericana. 2014
- J.T. Hansen: Netter. Anatomía Clínica. Ed. Elsevier. 3ª Edición. 2014
- E.C.Weber; J.Vilensky; S.Carmichael; K.S.Lee: Netter. Anatomía Radiología Esencial. 2ª edición. Elsevier-Masson. 2014
- Guzman López - Elizondo Omaña. Anatomía Humana en casos clínicos. 3ª edic. Ed. Panamericana. 2015

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

1. Contenidos

SE MANTIENEN LOS CONTENIDOS REFLEJADOS EN LA GUIA DOCENTE

2. Volumen de trabajo y planificación temporal de la docencia

NO SE MANTIENEN LOS HORARIOS , SE HA DADO LIBERTAD AL ESTUDIANTE PARA REALIZAR LAS ACTIVIDADES PROGRAMADAS DE ACUERDO CON SU PROPIA PROGRAMACIÓN.

3. Metodología docente

SUBIDAS DE MATERIAL AL AULA VIRTUAL.



ARTICULOS PUBLICADOS SOBRE LAS UNIDADES TEMÁTICAS.

TODAS LAS CLASES CON POWERS LOCUTADOS.

CASOS CLÍNICOS COMENTADOS EN LOS SEMINARIOS LOCUTADOS.TUTORÍAS POR CORREO ELECTRÓNICO Y POR VIDEOCONFERENCIA.

4. Evaluación

EN LA GUIA DOCENTE YÁ PONÍA REALIZACIÓN DE UN TRABAJO, SOBRE LOS SEMINARIOS DEL PERIODO DE FEBRERO HASTA ABRIL, CON UN VALOR DEL 40% DE LA NOTA. ESTRUCTURA QUE SE MANTIENE.

SIGUIENDO LA RECOMENDACIÓN DE LOS REPRESENTANTES DE LOS ALUMNOS INDICADA POR ESCRITO DEL ADR, Y COMO ESTA ASIGNATURA ES OPTATIVA. EL EXAMEN PRESENCIAL, QUE CORRESPONDÍA A UN 60% DE LA NOTA, QUEDA SUSTITUIDO POR LA REALIZACIÓN DE UN TRABAJO, QUE INDIQUE UNA ALTERACIÓN ANATÓMICA QUE PRODUCE UNA LESIÓN CLÍNICA CON SU PATOLOGÍA CORRESPONDIENTE, DE CADA UNA DE LAS UNIDADES TEMÁTICAS, DEL PROGRAMA. EN TOTAL 5. CON ESTAS DOS NOTAS, LOGRAREMOS LA CALIFICACIÓN FINAL.

5. Bibliografía

MATERIALES SUMINISTRADOS POR EL PROFESOR.
PLATAFORMA ELECTRÓNICA MEDPIX DE IMÁGENES RADIOLÓGICAS.
LIBROS ELECTRÓNICOS.