

26759 - General Anatomy and Human Embryology

Syllabus Information

Academic year: 2024/25

Subject: 26759 - General Anatomy and Human Embryology

Faculty / School: 104 - Facultad de Medicina

229 - Facultad de Ciencias de la Salud y del Deporte

Degree: 304 - Degree in Medicine

305 - Degree in Medicine

ECTS: 6.0

Year: 1

Semester: First semester

Subject type: Basic Education

Module:

1. General information

FOR INFORMATION ON THIS SUBJECT, PLEASE REFER TO LAST YEAR'S TEACHING GUIDE.

2. Learning results

To pass this subject, the student must be able to:

- Describe, identify, locate and relate basically the structures, systems and apparatus that make up the human body
- To integrate the successive stages of prenatal development of the human being.
- To integrate the structure and function of the placenta and its adnexal membranes.
- To identify the processes of fertilization and nesting of the zygote.
- To identify the different embryonic stages, including differentiation of the adnexa.
- To describe, identify and sequence the basic phenomena of early embryonic development (differentiation, induction, migration...) that lead to the appearance of apparatus and systems and to their further evolution, growth and maturation.
- To describe the basic phenomena that lead to modelling the external appearance of the embryo and foetus.
- To recognize with scientific criteria the failures of development mechanisms and interpret their consequences To correlate macroscopic morphology with optical microscopic and ultrastructural morphology.
- To recognize developing structures by imaging of the usual observation methods of clinical diagnosis
- To integrate the relationship between morphology, structure and function of all developmental periods
- To master the basic anatomical and embryological terminology necessary for the practice of the medical profession.
- To relate morphological knowledge to that of other disciplines in the undergraduate curriculum.

3. Syllabus

- 1.- Introduction to Anatomy.
- 2.- Introduction to systems and devices
- 3.- Introduction to Embryology. Germ cells. Fertilization.
- 4.- Embryonic soma differentiation. Foetal membrane formation.
- 5.- Cardiogenesis. Development of arterial, venous and lymphatic systems.
- 6.- Genesis of primitive intestine. Branchiogenesis
- 7.- Genesis of respiratory apparatus.
- 8.- Genesis and development of the coeloma
- 9.- Nephrogenesis. Development of the urogenital system.
- 10.- Neurogenesis Neural crest derivatives. Development of senses
11. Skeletogenesis, Arthrogenesis. Myogenesis.
- 12.- Genesis of integumentary systems. Odontogenesis

4. Academic activities

5. Assessment system

Assessment will be by means of written examinations (theory and practical).

EXAM FORMAT

- Theory (by means of multiple-choice questions). The maximum mark will be 7 points.
 - Practical part (by means of films-images to identify or locate anatomical structures). The maximum mark will be 3 points.
- If any of the parts (theory or practical) are not passed, they will NOT be compensated for each other.

In accordance with the provisions of article 5 of RD 1125/2003 (BOE September 18), the results obtained by the students will be graded according to a numerical scale (0-10), with one decimal place:

0-4,9: Fail (SS).

5,0-6,9: Pass (AP).

7,0-8,9: Notable (NT)

9,0-10: Outstanding (SB)

Honours will be awarded to the students with the best grades in our subject. In case there are students with the same grade that could be eligible for Honours, an examination may be held prior to the signing of the minutes.

6. Sustainable Development Goals

- 3 - Good Health & Well-Being
- 4 - Quality Education
- 5 - Gender Equality