# SUBJECT TEACHING GUIDE

**G145  - Surgery III**

Degree in Medicine

**Academic year 2018-2019**

## 1. IDENTIFYING DATA

<table>
<thead>
<tr>
<th>Degree</th>
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<th>Type and Year</th>
<th>Compulsory. Year 5</th>
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<td>Faculty</td>
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<td>Discipline</td>
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<td>Course unit title and code</td>
<td>G145 - Surgery III</td>
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<td>Number of ECTS credits allocated</td>
<td>6</td>
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<td>Language of instruction</td>
<td>Spanish</td>
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<td>Mode of delivery</td>
<td>Face-to-face</td>
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### Department
DPTO. CIENCIAS MEDICAS Y QUIRURGICAS

### Name of lecturer
MARIA ISABEL PEREZ NUÑEZ

### E-mail
isabel.perez@unican.es

### Office
Facultad de Medicina. Planta: + 0. DESPACHO DE TRAUMATOLOGIA Y ORTOPEDIA (0072)

### Other lecturers
MARIA ANGELES ALONSO AGUIRRE
PILAR BRIEVA BELTRAN
FRANCISCO JAVIER GOMEZ CIMIANO
GONZALO GOMEZ DEL ALAMO
RUBEN MARTIN LAEZ
MARIA DOLORES GARCIA ALFARO
MARIA ESTHER LAGUNA BERCERO
JUAN MARTINO GONZALEZ
MANUEL RUBEN SANCHEZ CRESPO
MANUEL SUMILLERA GARCIA
MARIA DE LOS ANGELES DE LA RED GALLEGO
JOSE COUCEIRO OTERO
MONICA RUBIO LORENZO
SONIA LOPEZ MEDINA
### 3.1 LEARNING OUTCOMES

- Students must acquire competences in the resolution of clinical cases of Traumatology and Orthopedic Surgery, both for children and adults, for their diagnostic approach and for their medical, surgical and rehabilitative treatment.
- Students should acquire skills in solving clinical cases of Neurosurgery, its diagnostic approach and its medical and surgical treatment.

### 4. OBJECTIVES

- Knowledge of Surgical Pathology Locomotor System (traumatic, degenerative, tumoral, infectious, sports injuries) both adult and child.
- Knowledge of the physical and rehabilitative in treating injuries Locomotor therapies.
- Knowledge of the Surgical Pathology of the Central and Peripheral Nervous System (traumatic, degenerative, tumor and infectious).
<table>
<thead>
<tr>
<th>6. COURSE ORGANIZATION</th>
<th>CONTENTS</th>
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</table>

THEORETICAL HOURS: 40 h: 32h TRAUMATOLOGY AND ORTHOPAEDIC SURGERY AND REHABILITATION and NEUROSURGERY: 8 h
SEMINARS: 16 h: 12h TRAUMATOLOGY AND ORTHOPAEDIC SURGERY AND REHABILITATION and 4h NEUROSURGERY

Traumatology and Orthopaedic Surgery.

1.- Fractures: Concept, Production mechanism. Most used classifications. Local and general clinic. Pathological and fatigue fractures. Dra Pérez Núñez
3.- Polyraumatized. General crush syndrome. Compartment syndrome. Dr. Pérez Núñez
4.- Neurological lesions of the extremities. Brachial Plexus injuries. Obstetric paralysis. Canalicular syndromes (Guyon, carpal tunnel). Dr. Sánchez Crespo
5.- Wounds of the hand: Tendon injuries Flexors and Extenders. Dr. Sánchez Crespo
6.- Most frequent sports injuries in upper and lower extremity.Dr Gómez Cimiano
8.- Bone tumors and paratumoral lesions. Bone metastases Dr Sumillera García
9.- Tumors of soft tissues and pseudotumoral lesions.

10.- Fractures Clavicle, scapula and proximal humerus. Shoulder dislocation. Acute and Recurrent. Diaphyseal Fractures of humerus. Dr. Gómez del Álamo
11.- Elbow: Articular extreme fractures (Humerus, ulna and radius). Elbow dislocation Forearm Fractures. Fractures elbow in the child. Dr. Sánchez Crespo
13.- Spinal injuries: cervical fractures. Dr. Pérez Núñez
14.- Spinal injuries: Thoracic and lumbar fractures. Dr. Pérez Núñez
17.- Injuries of the Extender Apparatus. Patella dislocations. Meniscal injuries. Ligamentous injuries Dr. Gómez del Álamo
18.- Diaphyseal fractures of the tibia. Ankle fractures. Sprain ankle. Dr Gómez Cimiano
19.- Tarsus Fractures: talus and Calcaneus. Fractures and dislocations tarsus, metatarsus and phalanges. Dr. Gómez Cimiano

25.- Shoulder Instability Dr Gómez del Álamo
26.- Rheumatic Hand (rizarthrosis, Kiemböck, DeQuervain). Dupuytren's disease. Infections of the hand. Dr. Sánchez Crespo
osteoaarthritis Avascular necrosis femoral head. Dra. Alonso Aguirre
28.- Painful knee of the adult. Intra-articular causes. Osteoarthritis. Genu varus and valgus. Dr. Sumillera García
29.-Ankle and painful foot of the adult. Flat foot and valgus foot. Metatarsalgia. Hallux valgus and rigidus. Dr. Alonso Aguirre
30.- Degenerative pathology of the thoracolumbar spine. Degenerative discopathy. Lytic spondylolysis. Stenosis. Degenerative scoliosis of the adult. Dr. Pérez Núñez
31.- Physical and rehabilitative therapies in traumatology Dr. Brieva Beltán
32. Physical and rehabilitative therapies in ligamentous and degenerative pathology of the Locomotor Apparatus. Aids and orthoses. Dr. Brieva Beltrán

Seminars:
1. Practical workshop tips bandages and orthopedic immobilization in Traumatology
2. Clinical exploration workshop of the locomotor system.
3. Children’s hip exploration..Clinical cases of the most common childhood disease.
4. Capsular ligament and meniscus injuries of the k
5. Management of the most common foot adult pathology.
6. Rehabilitation: Clinical cases

Neurosurgery
2. Intrinsic brain tumors.
4. Spinal cell tumors and spinal pathology.
5. Neurosurgical vascular pathology.
8. Pediatric neurosurgical pathology.

Seminars:
1.- Cranio-encephalic injuries
2.- Brain tumors
TRAUMATOLOGY AND ORTHOPAEDIC SURGERY AND REHABILITATION: 80%
THEORETICAL HOURS: 32h SEMINARS: 12h

Bibliography:
- Ortopedia. Lotke; Abboud; Ende. ISBN: 9788416353798. 2ª Ed. año 2016

Bibliografía complementaria
- Expert DDX Cerebro y Columna. ISBN 9788471017321
- Orborn. 2011

NEUROSURGERY: 20%
THEORETICAL HOURS: 8h SEMINARS: 4h
7. ASSESSMENT METHODS AND CRITERIA

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Final Eval</th>
<th>Reassessment</th>
<th>%</th>
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<td>The assessment is a written examination of theoretical lessons (multiple choice). 100 questions of traumatology and rehabilitation and 25 of Neurosurgery. This activity is recoverable.</td>
<td>Written exam</td>
<td>Yes</td>
<td>Yes</td>
<td>50,00</td>
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<tr>
<td>Evaluation of continuous assessment is the resolution of a clinical case presented in a lecture, this activity is not recoverable.</td>
<td>Others</td>
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<td>No</td>
<td>20,00</td>
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<tr>
<td>The assessment is a written examination of theoretical lessons (multiple choice). 100 questions of Traumatology and Rehabilitation and 25 of Neurosurgery. This activity is recoverable.</td>
<td>Written exam</td>
<td>Yes</td>
<td>Yes</td>
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<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
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**Observations**

Module of Traumatology and Orthopaedic Surgery and REHABILITATION: (80% of the subject): 100 multiple choice multiple choice questions in which each 3 wrong answers will cancel 1 correct (recoverable activity). Or what is the same each correct question is worth 3 points and each failed question subtracts -1.

Module NEUROSURGERY (20% of the subject): 25 multiple choice multiple choice questions in which each 3 wrong answers will cancel 1 correct (recoverable activity). Or what is the same each correct question is worth 3 points and each failed question subtracts -1.

Each module will be eliminatory independently in the February call if the score is 5 or higher.

**Observations for part-time students**

Students who have partial registration should contact the teacher responsible for the subject at the beginning of the course.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

**BASIC**


Ortopedia. Lotke; Abboud; Ende. ISBN:9788416353798. 2ª Ed. año 2016
