

SUBJECT TEACHING GUIDE

G145 - Surgery III

Degree in Medicine

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Degree in Medicine			Type and Year	Compulsory. Year 5
Faculty	Faculty of Medicine				
Discipline	Human Clinical Training Subject Area: Human Pathology				
Course unit title and code	G145 - Surgery III				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. CIENCIAS MEDICAS Y QUIRURGICAS
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Other lecturers	PILAR BRIEVA BELTRAN FRANCISCO JAVIER GOMEZ CIMIANO GONZALO GOMEZ DEL ALAMO RUBEN MARTIN LAEZ MARIA DOLORES GARCIA ALFARO 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).

6. COURSE ORGANIZATION

CONTENTS

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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.
 - 2.- General treatment of fractures current therapeutic methods. General and loco-regional complications. Delay of Consolidation and Pseudoarthrosis. Grafts. Bone substitutes.
 - 3.-Polytraumatized. General crush syndrome. Compartment syndrome.
 - 4.- Neurological lesions of the extremities. Brachial Plexus injuries. Obstetric paralysis. Canalicular syndromes (Guyon, carpal tunnel).
 - 5.- Wounds of the hand: Tendon injuries Flexors and Extenders.
 - 6.-Most frequent sports injuries in upper and lower extremity.
 - 7.- Bone Infections and Necrosis of the Locomotor Apparatus: Arthritis and Osteomyelitis in the Adult and Child. Surgical treatment. Infection of implants: Osteosynthesis and joint prostheses. Aseptic bone necrosis. Osteochondritis and osteonecrosis.
 - 8.- Bone tumors and paratumoral lesions. Bone metastases
 - 9.- Tumors of soft tissues and pseudotumoral lesions.
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- 10.- Fractures Clavicle, scapula and proximal humerus. Shoulder dislocation.Acute and Recurrent. Diaphyseal Fractures of humerus.
 - 11.- Elbow: Articular extreme fractures (Humerus, ulna and radius). Elbow dislocation Forearm Fractures Fractures elbow in the child.
 - 12.- Wrist and hand: Fractures. Distals cubito and radio. Carpal fracture-dislocation. Scaphoid. Metacarpal and phalangeal fractures.
 - 13.- Spinal injuries: cervical fractures.
 - 14.- Spinal injuries: Thoracic and lumbar fractures.
 - 15.- Pelvis-Hip: Pelvis: Fractures Pelvic ring. Sacral and coccyx. Acetabulum Fractures. Hip: Fractures Proximal femur tip. Hip dislocation.
 - 16.-Femoral diaphysis fractures Knee (I): Supra and intercondylar fractures.Patella fractures. Fractures of tibial plateau. Knee dislocation
 - 17.- Injuries of the Extender Apparatus. Patella dislocations. Meniscal injuriesLigamentous injuries
 - 18.- Diaphyseal fractures of the tibia . Ankle fractures. Sprain ankle.
 - 19.-Tarsus Fractures: talus and Calcaneus. Fractures and dislocations tarsus, metatarsus and phalanges.
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- 20.- Children's fractures: Particularities. Treatment- Epiphysiolyysis. Classification and treatment. hip development dysplasia.
 - 21.- Congenital deformities. Axial deviations of the lower limbs. Angular and Rotary.
 - 22.- Painful hip: Hip synovitis. Perthes disease. Proximal epiphysiolyysis of the femur.
 - 23.- Disorders in the development of the foot. Congenital: Clubfoot. Static: Flat foot.
 - 24 .- Deformities of the spine in childhood-adolescence. Scoliosis. Kyphosis: Schuermann's disease.
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- 25.- Shoulder Instability
 - 26.-Rheumatic Hand (rizarthrosis, Kiemböck, DeQuervain). Dupuytren's disease. Infections of the hand.
 - 27.- Painful Hip of the Adult. Extra-articular Causes: Bursitis, Tendinitis. Intra-articular causes: Labrum pathology. osteoarthritis Avascular necrosis femoral head.
 - 28.- Painful knee of the adult. Intra-articular causes. Osteoarthritis. Genu varus and valgus.
 - 29.-Ankle and painful foot of the adult. Flat foot and valgus foot. Metatarsalgia. Hallux valgus and rigidus.
 - 30.- Degenerative pathology of the thoracolumbar spine. Degenerative discopathy . Lytic spondylolysis. Stenosis.

Degenerative scoliosis of the adult.

31.- Physical and rehabilitative therapies in traumatology.

32. Physical and rehabilitative therapies in ligamentous and degenerative pathology of the Locomotor Apparatus .
Aids and orthoses.

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 knee
5. Management of the most common foot adult pathology.
6. Rehabilitation: Clinical cases

Neurosurgery

1. Cranio-encephalic trauma.
2. Intrinsic brain tumors.
3. Extrinsic brain tumors.
4. Spinal cell tumors and spinal pathology.
5. Neurosurgical vascular pathology.
6. Deep brain stimulation surgery. Surgery of epilepsy.
7. Hydrocephalus.
8. Pediatric neurosurgical pathology.

Seminars:

- 1.- Cranio-encephalic injuries
- 2.- Brain tumors

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TRAUMATOLOGY AND ORTHOPAEDIC SURGERY AND REHABILITATION : 80%

THEORETICAL HOURS: 32h SEMINARS: 12 h

Bibliography:

Traumatología y Ortopedia para el Grado de Medicina . Autor: Fernando Marco ISBN: 9788480866774 Editorial: Elsevier. Año 2015

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

-Nociones Básicas de Neurocirugía. F. Bartomeus. 2 edición (2001). ISBN: 9788495035547

Bibliografía complementaria

Expert DDX Cerebro y Columna. ISBN 9788471017321

Orborn. 2011

Expert DDX. Musculoesquelético. Autor: Manaster, B.J. Editorial: Marban, S.L. ISBN: 978-84-7101-731-4. Año 2011

Cirugía Ortopédica y Traumatología. Autor: Delgado Martínez, A.D. Editorial: Panamericana, ISBN:

978-84-9835-210-8. Año 2012.

Ortopedia y Fracturas. Ronald Mac Rae. ISBN : 84-7101-312-6 . Editorial: Marban , SL Año 2006

Hand Book of Neurosurgery. Mark S. Greenberg. 8 edición (mayo 2016). ISBN-13: 978-1626232419

Fichas de patología ortopédica. Autor: Fernández, J.J. Editorial: Edicions i Publicacions de la UdL, 2012. ISBN:

978-84-8409-409-8. Año 2012.

Patología de la columna vertebral. Autor: Burgos, J., Izquierdo Núñez, E. Editorial: Panamericana.

ISBN:978-84-9110-034-8. Año 2016

NEUROSURGERY: 20%

THEORETICAL HOURS: 8 h SEMINARS: 4h

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Evaluation of continuous assessment is the resolution of a clinical case presented in a lecture, this activity is not recoverable.	Others	No	No	20,00
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.	Written exam	Yes	Yes	30,00
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.	Written exam	Yes	Yes	50,00
TOTAL				100,00
Observations				
<p>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.</p> <p>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.</p> <p>Each module will be eliminatory independently in the February call if the score is 5 or higher</p>				
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
Traumatología y Ortopedia para el Grado de Medicina . Autor: Fernando Marco ISBN: 9788480866774 Editorial: Elsevier.Año 2015
Ortopedia. Lotke ; Abboud; Ende. ISBN:9788416353798. 2ª Ed. año 2016
Nociones Básicas de Neurocirugía. F. Bartomeus. 2 edición (2001). ISBN: 9788495035547