

2023-2024 Catalog

Pediatric Neurosurgery - Jacksonville

NSU E 2J | 4th Year Elective | Neurosurgery | Clinical Science | Jacksonville

MDT 7650 | Pediatric Neurosurgery Jax

Prerequisites

Fourth year student with successful completion of pediatrics as a third year student.

Course Description

This rotation is designed to familiarize the student with a wide range of pediatric neurosurgical conditions encountered in infants, children and adolescents, as well as in prenatal conditions. Medical students must learn the basic concepts of pediatric neurology, neuroanatomy, and neurosurgery, with the desire to develop the ability to diagnose and understand the basic mechanism underlying neurosurgical diseases in infants, children and adolescents, and formulate a logical plan of treatment.

During the two to four week rotation, students will function as an integral part of the faculty-led team caring for patients on the pediatric neurosurgery service at Wolfson Children's Hospital (WCH) and UF&Shands Jacksonville. Wolfson Children's Hospital is a tertiary regional children's hospital that treats children from northern Florida and southern Georgia. The UF Division of Pediatric Neurosurgery provides comprehensive care to children with all types of neurosurgical diseases with three fellowship trained pediatric neurosurgery faculty members. It also serves as a training site for the Mayo Clinic Jacksonville neurosurgery resident program.

Rotating students are expected to demonstrate an enthusiasm for their work and an active interest in learning the nuances of advanced pediatric neurosurgical care. Students will round each morning with the attending teams, and will then be encouraged to spend time in the operating room. The student will have opportunities to acquire knowledge, skills, values, and attitudes in pediatric neurosurgery as well as participate directly in the care of patients with a vast array of clinical conditions that include, but are not limited to: surgical management of epilepsy, surgical correction of congenital disorders of the spine and cranium, surgical/radiosurgical treatment of brain tumors, and the surgical management of cerebrovascular diseases such as strokes and Moyamoya disease in children.

The faculty of the UF Division of Pediatric Neurosurgery at the University of Florida Health Science Center Jacksonville believe the Key Success Factors include, but are not limited to:

1. The development of excellent communication skills with the parents/caregivers of children. (P, PC, IC)
2. Learning to perform an adequate pediatric neurological/neurosurgical examination in infants, children and adolescents. (P, PC, IC)
3. Know what neurodiagnostic tests are required and are cost-effective, as well as efficient in the decision making process for each individual patient. (PC, MK, SBP)
4. This will be performed by, but not limited to fetal ultrasonography and magnetic resonance imaging, computed tomography and magnetic resonance imaging in infants, children and adolescents. (PC, MK, SBP)

[P = professionalism; MK = medical knowledge; PC = patient care; PBL = problem based learning; IC = interpersonal skills; and SBP = systems based practice.]

Course Faculty and Staff

- [Philipp R. Aldana MD](#) (Director)
- [Dani Brown](#) (Course Staff)
- [Genevieve Fitzgerald](#) (Course Staff)

- [Frank J Genuardi MD, MPH](#) (Other Faculty)

Meeting Place and Time

Daily at 8:00 a.m. in Lucy Gooding Pediatric Neurosurgery Center (12th Floor, Suite 1205, WCH Pavilion Building)

Course Materials

Pediatric neurosurgery reading materials/handouts recommended by the faculty.

Additional Information

Please contact Philipp R. Aldana, M.D. at least four weeks prior to the elective start date.

Office Address: 836 Prudential Drive, #1205

Jacksonville, Florida 32207

Office Tel.No: (904) 633-0782

Classes Offered

Period	Length	Credits	(Avail / Max) Slots
Period 1	4 Weeks (May 8 - Jun 4)	4	(1 / 1)
Period 1	First 2 Weeks (May 8 - May 21)	2	(1 / 1)
Period 1	Second 2 Weeks (May 22 - Jun 4)	2	(1 / 1)
Period 2	4 Weeks (Jun 5 - Jul 2)	4	(1 / 1)
Period 2	First 2 Weeks (Jun 5 - Jun 18)	2	(1 / 1)
Period 2	Second 2 Weeks (Jun 19 - Jul 2)	2	(1 / 1)
Period 3	4 Weeks (Jul 3 - Jul 30)	4	(1 / 1)
Period 3	First 2 Weeks (Jul 3 - Jul 16)	2	(1 / 1)
Period 3	Second 2 Weeks (Jul 17 - Jul 30)	2	(1 / 1)
Period 4	4 Weeks (Jul 31 - Aug 27)	4	(1 / 1)
Period 4	First 2 Weeks (Jul 31 - Aug 13)	2	(1 / 1)
Period 4	Second 2 Weeks (Aug 14 - Aug 27)	2	(1 / 1)
Period 5	4 Weeks (Aug 28 - Sep 24)	4	(1 / 1)

Period	Length	Credits	(Avail / Max) Slots
Period 5	First 2 Weeks (Aug 28 - Sep 10)	2	(1 / 1)
Period 5	Second 2 Weeks (Sep 11 - Sep 24)	2	(1 / 1)
Period 6	4 Weeks (Sep 25 - Oct 22)	4	(1 / 1)
Period 6	First 2 Weeks (Sep 25 - Oct 8)	2	(1 / 1)
Period 6	Second 2 Weeks (Oct 9 - Oct 22)	2	(1 / 1)
Period 7	4 Weeks (Oct 23 - Nov 19)	4	(1 / 1)
Period 7	First 2 Weeks (Oct 23 - Nov 5)	2	(1 / 1)
Period 7	Second 2 Weeks (Nov 6 - Nov 19)	2	(1 / 1)
Period 8	4 Weeks (Nov 20 - Dec 17)	4	(1 / 1)
Period 8	First 2 Weeks (Nov 20 - Dec 3)	2	(1 / 1)
Period 8	Second 2 Weeks (Dec 4 - Dec 17)	2	(1 / 1)
Period 9	4 Weeks (Jan 1 - Jan 28)	4	(1 / 1)
Period 9	First 2 Weeks (Jan 1 - Jan 14)	2	(1 / 1)
Period 9	Second 2 Weeks (Jan 15 - Jan 28)	2	(1 / 1)
Period 10	4 Weeks (Jan 29 - Feb 25)	4	(1 / 1)
Period 10	First 2 Weeks (Jan 29 - Feb 11)	2	(1 / 1)
Period 10	Second 2 Weeks (Feb 12 - Feb 25)	2	(1 / 1)
Period 11	4 Weeks (Feb 26 - Mar 24)	4	(1 / 1)
Period 11	First 2 Weeks (Feb 26 - Mar 10)	2	(1 / 1)
Period 11	Second 2 Weeks	2	(1 / 1)

Period	Length	Credits	(Avail / Max) Slots
Period 12	4 Weeks (Mar 25 - Apr 21)	4	(1 / 1)
Period 12	First 2 Weeks (Mar 25 - Apr 7)	2	(1 / 1)
Period 12	Second 2 Weeks (Apr 8 - Apr 21)	2	(1 / 1)
Period 13	4 Weeks (Apr 22 - May 19)	4	(1 / 1)
Period 13	First 2 Weeks (Apr 22 - May 5)	2	(1 / 1)

Evaluated Competencies

#1 Professionalism

Educational Objectives: Please see above Key Success Factors under Course Description, as well
1. Maintain high standards of ethical behavior. 2. Demonstrate respect, compassion, and integrity. 3. Demonstrate sensitivity to age, gender and culture of patients and other health care professionals.

Method of Evaluation: Observation. Interaction with staff and patients will be continually assessed all activities during the entire rotation period.

#2 Patient Care

Educational Objectives: Please see above Key Success Factors under Course Description, as well
1. Assess and manage patients with neurosurgical conditions. 2. Develop the technical skills required to perform basic procedures.

Method of Evaluation: Observation, review of verbal and written communications. History taking and examination skills will be primarily assessed in the Pediatric Neurosurgery Center. Simple bedside procedures and basic surgical skills will be assessed throughout the rotation.

#3 Medical Knowledge

Educational Objectives: Please see above Key Success Factors under Course Description, as well
1. Demonstrate knowledge of pertinent basic and clinical science information and the ability to apply to clinical practice.

Method of Evaluation: Interaction with team, presentation to the team, the clinical aspects of pediatric neurosurgery. Assessment will be undertaken by case discussion in the Pediatric Neurosurgery Center, performance during conferences, and when rounding with faculty and staff.

#4 Practice-Based Learning

Educational Objectives: Please see above Key Success Factors under Course Description, as well
1. Locate, analyze and apply scientific knowledge to the practice of pediatric neurosurgery.

Method of Evaluation: Interaction with team, presentation to the team, the clinical aspects of pediatric neurosurgery. Short study topic that is presented during the PNC CME Journal Club Meeting that is held during the course of the rotation (second Tuesday of the month).

#5 Interpersonal and Communication Skills

Educational Objectives: Please see above Key Success Factors under Course Description, as well
1. Work effectively with other health care professionals. 2. Create and sustain a therapeutic and ethically sound relationship with patients and their families.

Method of Evaluation: Daily interaction in the clinic and hospital. Interaction with patients in the

#6 Systems-Based Practice

Educational Objectives: Please see above Key Success Factors under Course Description, as well
1. An understanding of high quality, cost-effective patient care. 2. Appreciation of the different type medical practice and health care delivery systems. 3. Demonstrate an understanding of the role of different specialists and other health care professionals in overall patient management.

Method of Evaluation: Observation of interactions with the healthcare team. Performance during 1 rotation will form the basis of assessment.