

2021-2022 Catalog

Pediatric Neurosurgery - Jacksonville

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

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 four 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 resident and 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, and 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)
- [Stephanie Conley](#) (Course Staff)
- [Frank J Genuardi MD, MPH](#) (Other Faculty)
- [Alexandra D. Beier DO](#) (Other Faculty)
- [Nathan J Ranalli MD](#) (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) 6330789

Classes Offered

Period	Length	Credits	(Avail / Max) Slots
Period 1	4 Weeks (May 10 - Jun 6)	4	(1 / 1)
Period 1	First 2 Weeks (May 10 - May 23)	2	(1 / 1)
Period 1	Second 2 Weeks (May 24 - Jun 6)	2	(1 / 1)
Period 2	4 Weeks (Jun 7 - Jul 4)	4	(1 / 1)
Period 2	First 2 Weeks (Jun 7 - Jun 20)	2	(1 / 1)
Period 2	Second 2 Weeks (Jun 21 - Jul 4)	2	(1 / 1)
Period 3	4 Weeks (Jul 5 - Aug 1)	4	(1 / 1)
Period 3	First 2 Weeks (Jul 5 - Jul 18)	2	(1 / 1)
Period 3	Second 2 Weeks (Jul 19 - Aug 1)	2	(1 / 1)
Period 4	4 Weeks (Aug 2 - Aug 29)	4	(1 / 1)
Period 4	First 2 Weeks (Aug 2 - Aug 15)	2	(1 / 1)
Period 4	Second 2 Weeks (Aug 16 - Aug 29)	2	(1 / 1)
Period 5	4 Weeks (Aug 30 - Sep 26)	4	(1 / 1)

Period	Length	Credits	(Avail / Max) Slots
Period 5	First 2 Weeks (Aug 30 - Sep 12)	2	(1 / 1)
Period 5	Second 2 Weeks (Sep 13 - Sep 26)	2	(1 / 1)
Period 6	4 Weeks (Sep 27 - Oct 24)	4	(1 / 1)
Period 6	First 2 Weeks (Sep 27 - Oct 10)	2	(1 / 1)
Period 6	Second 2 Weeks (Oct 11 - Oct 24)	2	(1 / 1)
Period 7	4 Weeks (Oct 25 - Nov 21)	4	(1 / 1)
Period 7	First 2 Weeks (Oct 25 - Nov 7)	2	(1 / 1)
Period 7	Second 2 Weeks (Nov 8 - Nov 21)	2	(1 / 1)
Period 8	4 Weeks (Nov 22 - Dec 19)	4	(1 / 1)
Period 8	First 2 Weeks (Nov 22 - Dec 5)	2	(1 / 1)
Period 8	Second 2 Weeks (Dec 6 - Dec 19)	2	(1 / 1)
Period 9	4 Weeks (Jan 3 - Jan 30)	4	(1 / 1)
Period 9	First 2 Weeks (Jan 3 - Jan 16)	2	(1 / 1)

Period	Length	Credits	(Avail / Max) Slots
Period 9	Second 2 Weeks (Jan 17 - Jan 30)	2	(1 / 1)
Period 10	4 Weeks (Jan 31 - Feb 27)	4	(1 / 1)
Period 10	First 2 Weeks (Jan 31 - Feb 13)	2	(1 / 1)
Period 10	Second 2 Weeks (Feb 14 - Feb 27)	2	(1 / 1)
Period 11	4 Weeks (Feb 28 - Mar 27)	4	(1 / 1)
Period 11	First 2 Weeks (Feb 28 - Mar 13)	2	(1 / 1)
Period 11	Second 2 Weeks (Mar 14 - Mar 27)	2	(1 / 1)
Period 12	4 Weeks (Mar 28 - Apr 24)	4	(1 / 1)
Period 12	First 2 Weeks (Mar 28 - Apr 10)	2	(1 / 1)
Period 12	Second 2 Weeks (Apr 11 - Apr 24)	2	(1 / 1)
Period 13	4 Weeks (Apr 25 - May 20)	4	(1 / 1)
Period 13	First 2 Weeks (Apr 25 - May 8)	2	(1 / 1)

Evaluated Competencies

#1 Professionalism

Educational Objectives: Please see above Key Success Factors under Course Description, as well as: 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 in all activities during the entire rotation period.

#2 Patient Care

Educational Objectives: Please see above Key Success Factors under Course Description, as well as: 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 as: 1.Demonstrate knowledge of pertinent basic and clinical science information and the ability to apply it 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 as: 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 as: 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 clinics and hospital. Interaction with patients in the Pediatric Neurosurgery Center and while on service will form the basis of assessment.

#6 Systems-Based Practice

Educational Objectives: Please see above Key Success Factors under Course Description, as well as: 1.An understanding of high quality, cost effective patient care. 2.Appreciation of the different types of 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 the rotation will form the basis of assessment.