Nemours Children's Hospital, Florida

Pediatric Surgical

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Program Curriculum

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x Program Objectives:

- o Practice evidence ased medicine
- o Strengthen surgical skills
- o Strengthen awareness of socioeconomic issues and its impact on patient care
- o Acquire knowledge of pediatric surgical subspecialties for appropriate patient assessment, diagnosis, treatment and management
- o Provide understanding of PA role within the operating room and pediatric surgical subspecialtie
- o Provide exposure to variety of pediatric surgical subspecialties
- o Be able to identify medical and surgical emergencies that require urgent care
- o Further strengthen knowledge of surgical procedures, indications, aist spenefits
- o Develop, evaluate and carry out plan of care for pediatric surgical patients
- o Engage in collaborative care management

x Staff:

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Pediatric General Surgery Objectives

- x Mandatory Reading(to be done prior to rotation startin)g
 - 0
- x Comprehend and practice enterprise protocols:
 - o Appendicitis
 - o ERAS
 - o Pyloric stenosis
 - o Intussusceptia
 - o Lymphadenopath
 - o Mediastinalpathway
- x Patient Care
 - o SurgicalPA residents orthe pediatric surgery service should demonstrate the ability to:
 - f Evaluate preparative patients and ensure they are cleared for surgery
 - f Manage the fluid, electrolytes nd nutritional aspects of pediatric patient
 - f Participate in rounds
 - f Prioritize patient acuity
 - f Manage inpatient postoperative patients
 - f Manage inpatient emergencies
 - f Plan patient discharge
 - f Troubleshoot gastrostomy tube malfunction
 - f Provide ostomy and gastrostomy tube care
 - f Perform the following procedures:
 - x Firstassis in minimum of 10 laparoscopic cases
 - x Replace a gastrostomy tube
 - x Place a foley in female and male patient
 - x Place NGT
 - x Intra-op TAP block
 - x Inttube md d Intt dis.9 (0)-16.1 (b)2.2 (e)1_0 1 Te Tc 0 T

f Place NoGT

Pediatric General Surgery Objectives

Pediatric Plastic and Craniofacial Surgery Objectiv es

x Mandatory Reading(rc atroc arg (rirc ag g eaiandar8-9t 4 ag ((rg

Pediatric Neurosurgery Objectives

Please be familiar with the following items by reading to rotation and then adding to your knowledge base as you come across them

- Neuroanatony
- x Neuro Exam—Knowledge of neuro-exam and how those findings are relevant
 - o Pathologic exam findings to be f(T..5 ((m)-6.3 (iliar)11 (w)-3.4 (it)-3 ()]TJ 0 Tc 0 Tw 70.761 0 Td :y

Pediatric Neurosurgery Objectives (Continued)

Dandy walker malformation
Herniating syndromes
KlippełFel syndrome
Arachnoid cyst
Pseudotumor ceriPs4 3 Tr 6VH01 Tc -0.008 Tw 0 Tr 7.479 0 Td [(D)- dott Plagiocepaly
Disc herniation Scoliossi Brain lesions

Head trauma

Pediatric Otolaryngology Objectives

- x Mandatory Reading(to be done prior to rotation startin)g
 - o Primary Care Otolaryngology Bdition Oto-Primary CareWEB.pdf (entnet.org)
- x W š š vŒ
 - o SurgicalPAresidents on the otolaryngology service should demonstrate the ability to
 - f Perform and complete a full head and neck examination
 - f Interpret polysomnogram
 - f Interpret audiogram
 - f Present consults to attending physician
 - f Plan discharge and followsp care
 - f Manage tracheostomy care and complications
 - f Understand and explain management of airway emergencies
 - f W OEu()SOZ()00PÁ V_0 VOE) Wu OE
 - x Microscopic otoscopy
 - x Cerumen removal
 - x Control of epistaxis
 - x Tracheostomy tube placement and management
 - x First assist in heardhd neck cases
 - x Suturing and suture removal
- x MedicalKv}ÁoP
 - o SurgicalPA residents on the otolaryngology service should understand
 - f The practice guidelines for common ENT surgical procedures s**bidhtes**al myringotomy with tube placement, adenoidectorand tonsillectomy
 - f The pathophysiology, method of evaluationd surgical role foronductive vs. sensorineural hearing loss
 - f The evaluation of neck masses and formulate a differential diagnosis

Pediatric Otolaryngology Objectives

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Pediatric Orthopedic Objectiv es

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Pediatric Emergency Medicine Objectives

- v Overall Educational Goals and Expectations
 o Obtain knowledge and experience in the fundamentalemofergencymedicine to develop the qualities and skills to function as a competent sician assistant
 o Surgial PAresidents will be expected to participate as a medical provider and will be responsible for initial evaluation and pres Tw 2.446 eâ>7d"Œ ÓãeZââ 5ã¤...^"TBž•eRTé] U...Ñ

Pediatric Emergency Medicine Objectives (Continued)

- x General Medical Knowledge and Objectives (disease/conditions and practice enterprise protocols per surgical subspecialties in EmergencyDepartment[but not limited tq]):
 - o General Surgery
 - f The pathophysiology, method evaluation and management of common pediatric surgical diseases including appendicitis, pyloric stenosis, intussusception, cholecystitis, choledocholithiasis, foreign body ingestion, intestinal obstructions, malrotation, volvulus, pilonidal abscentradenitis suppurativa, ovarian torsion/mass, pelvic mass causing hemodynamic instability
 - f Pediatric dosing of medications, correcting electrolyte imbalance, and dehydration resuscitation calculations for bolus and maintenance fluids
 - f Radiographic studies and interpretation
 - f Calculate and implement Pediatric Appendicitis Score
 - f Perform the following procedures:
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Pediatric Emergency Medicine Objectives

(Continued)

- f Perform the following procedures
 - x Hemodynamically stabilization of postsurgical tonsillar bleeds
 - x Removal of foreign body in ear/nose
 - x Ear lavage
 - x Management of epistaxis

o Urology

- f Identify patient presentation for warranting surgical interventions sess and manage disease/conditions of the follow, butnot limited to:
 - x Renal stones—managementbased evaluation, sizend location of stone
 - x Febrile and/or urinary tract infection (urinalysis with pyuria + bacteria)
 - x Proximal stones > 4cm due to increased pain and less likely to pass
 - x Testicular torsion, paraphimosis, phimosis
- f Procedures
 - x Insertion of foley in female/male patients

o Orthopedic

- f Identify, evaluatænd manage disease/conditions of the following however, not limited to: dosed nondisplaced/displaced fractures, musculoskeletal pain, strain, sprailtimping child with/without fever osteomyelitis æptic arthritis
- f Procedures
 - x Familiarize typeof splinting/casting for orthopedic extremity fracture
 - x Reduction of radiahead subluxation

o Plastc Surgery

- f Disease conditions
- f Burn debridement
- f Laceration repair, simple
- f Wound closure (be familiar witWound healing part Basic Sciençand part II Clinical Applications provided by plastic surgery)
 - x Plastc surgey has simple instrumentation kit available general surgery clinical node



Neonatal Intensive Care Objectiv es

The surgical PAresident will spend 2 weeks in three onatal ICU during their general medicine rotation.

- x The resident will workalongside the providers in the NICU to gain knowledge of neonatal disease processes and their management.
- x The resident will assist in development of differential diagnoses of the neonate
- x The resident will assist in the development of treatment plans of the neonate.
- x The resident will begin to understand total parenteral nutrition
- x The resident will become familiar with neonatal developmental milestones
- x The resident will become proficient in neonatal physical examination.
- x The resident will become familiar with common surgical diagnoses related to the neighbor of the neighbor of
 - o Necrotizingenterocolitis
 - o Inguina hernia
 - o Gastroschiis
 - o Oomphalocte
 - o Hirschsprungdisease
 - o Neonatal

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Pediatric Intensive Care Objectives

- Obtain knowledge and experience in pediatric intensive care setti**a**ddw foradequate assessment, management and treatment of critical patients
- Recognize and appropriately respond to acute/llifeb-threatening events
- Effectively communicate amongst the patient care team, patiend families
- Be familiar with criteria for admission or transfer of PICU settings
- Understand the importance of psychosocial issues related to care of critically ill patients
- Understand the different monitoring techniques in pediatric critical care
- Read and interpret EKG
- Accurately calculate QTc using Bazett formula
- Demonstrate professional responsibility in working as a provider with other members involved in patient care teamincluding the patient and families
- Demonstrate competence in airway skills
- Demonstrate the ability to
 - o Prioritize based on patient acuity
 - o Present a coherent assessment and appropriate treatment plan during rounds
 - o Plan discharge and follows care
 - o Manage electrolyte imbalances
 - o Interpret imaging and indicate when and what radiographic studies are needed
- Recognize and manage different types of shock
- Recognize and manage respiratory failure
- Recognize the need for and appropriateness of consultation and/or referral
- Obtain knowledge of sedation and pain management in the PICU setting
- Understand howPleur evacsfunction
- Understand the indications, peop managementand complications of common surgical admissions

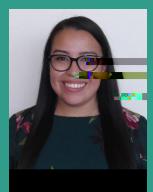




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