



**The Brooklyn
Hospital Center**

Final Report

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From August 1 to November 1, 2016

Plan

1-Introduction and thanks

2-Rotation, academic activities report

3-Conclusion

1-Introduction and thanks

Above all, I thank Jehovah, the Great Architect of the Universe for his presence, his strength and also to have kept me healthy during the three-month of rotations in Brooklyn Hospital Center. Thank you to Dr Lesly Kernisant (SIMACT President) for conceiving this rotation program. Special Thanks to AMHE's staff who are doing a fantastic job especially in the Haitian medical community and also thank you for the opportunity you gave me to participate in this excellent rotation. Thank to Dr. Gary A. Stephen (Senior Vice President and Chief Medical Officer, The Brooklyn Hospital Center) for allowing me to frequent the different services of the pediatric.

Special thank to Dr. Paul Nacier (Chief of Endoscopy, Kingsbrook Jewish Medical Center) for all his support, his determination for the continuity of this program and also for always concern of my well-being.

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Special thank to Dr. Melissa Guillaume (chief of Pediatric Cardiology, The Brooklyn Hospital Center) for dedicating her time teaching me cardiology. If becoming cardiologist was only 3 months, she would transform me as well as her an excellent pediatric cardiologist.

Thank to the different chief of endocrinology, neurology, radiology and emergency department for having received me well in their department and also a special thank to the nurses specially the two nurse practionner Martine Beckett and Virginia from the Neonatology and neurology's service respectively. Thank to all residents and medical student for accepting me to work actively in their team.

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Special thank to all the members of my family (my husband, my son, my parents, my brothers and sisters) and my friends for all their support. I love you very much.



2-Rotation, academic activities report

During the period from 1 Aoutt to November 1, 2016, I had the opportunity to go through 8 services

NICU

1. Round every morning
2. Delivery room where I had the opportunity to participate actively with the team on the management.
3. Use of surfactant
4. Umbilical catheter
5. Total parenteral nutrition
6. Neopuff
7. Observership of circumcision
8. "7th Edition Neonatal Resuscitation Provider Course Part 1" completed on 8/12/2016
 - During this course a practice session was given in the class and the following lessons were been seen:
 - ✓ Lesson 1: Foundations of Neonatal Resuscitation
 - ✓ Lesson 2: Preparing for resuscitation
 - ✓ Lesson 3: Initials Steps of NewBorn Care
 - ✓ Lesson 4: Positive Pressure Ventilation
 - ✓ Lesson 5: Alternative Airway; Endotracheal Tubes and Laryngeal Masks.
 - ✓ Lesson 6: Chest Compressions
 - ✓ Lesson 7: Medication
 - ✓ Lesson 8: Post resuscitation Care
 - ✓ Lesson 9: Resuscitation of Baby Born Preterm
 - ✓ Lesson 10: Special Consideration
 - ✓ Lesson 11: Ethics and Care at the end of live.

At the end of the course, an exam test was done online to obtain the certificate of Completion.

Cases and Topics discussed

- Acute respiratory distress Syndrome (ARDS)
- Respiratory Failure
- Pneumonia
- Pneumothorax associated with Pneumomediastin
- Apnea

- Meningitis
- GBS infection
- Chorioamnionitis
- Annular pancreas
- Einbtein's Anomaly
- Hyperbilirubinemia
- Laryngomalacia
- Choanal atresia
- Duodenal Atresia
- Oesophagus atresia
- Intestinal Malrotation
- Intestinal perforation
- Diaphragmatic Hernia
- Alagille Syndrome
- Sepsis
- Diabetic Mother infant
- Management of hypoglycemia in diabetic mother infant.
- Hypothermia
- Pulmonary Hypoplasia
- Congenital Syphilis
- Newborn of seropositive Mother
- Metabolic acidosis
- Fetal Hydronephosis
- Caylor cardiofacial Syndrome
- Fluids and Electrolytes
- Prematurity
- Anemia of prematurity
- Polycythemia
- Necrotizing enterocolitis (NEC)
- Meconium Aspiration
- Preductal vs post Ductal
- Hyperoxy test
- Mechanical principles of ventilation
- Use of BIPAP vs CPAP
- High Frequency ventilation

PICU

- 1- Round every morning
- 2- Simulation laboratory (case management, intubation, central lines)

Cases and Topics discussed

- Peter Plus Syndrome
- Gastrochysis
- Choc (septic, anaphylactic, cardiogenic, hypovolemic, neurogenic)

- Intracranial Pressure
- SIADH
- Cerebral salt waste
- Diabetes Insipidus
- Sedation in Pediatric
- Anion and non Anion Gap
- Status Epilepticus
- Status Athmaticus
- Pyloric stenosis
- Interpretation of blood Gases
- Adrenal insufficiency

Cardiology

- 1- EKG interpretation
- 2- Echocardiogram
- 3- Fetal echocardiogram
- 4- Stress test
- 5- Lecture of Holter monitor Test
- 6- Active participation with the team in physical exam of the patients and case discussion with the attending
- 7- Homework for EKG interpretation
- 8- Video conference on Wednesday afternoon

Cases seen and topics discussed

- Syncope
- Tetralogy of fallop
- Triscuspid atresia
- Transposition of great Vessels
- Total venous anomaly
- PDA
- Patent Foramen Ovale
- Kawasaki
- Heterotaxy syndrome
- Single ventricle
- Acute mitral regurgitation
- Ventricular Septum Defect(VSD)
 - ✓ Subaortic membrane
 - ✓ Perimembranous VSD
- Atrial Septum Defect (ASD)
- Triscuspid regurgitation(TR)
- Endocardial cushion defect (CAV)

- Long QTc syndrome
- Short QTc syndrome
- Wolf Parkinson White (WPW)
- Goldenhar's Syndrome
- Coarctation of the Aorta
- Marfan syndrome
- Primary Pulmonary Stenosis (PPS)
- Innocent murmur vs Pathologic murmur
- Rheumatoid Fever
- Arrhythmia and Medication
- Endocarditis
- Cyanosis
- Approach to chest Pain
- Cardiac failure
- Orthostatic Hypotension
- Hypertension
- Ventricular Tachycardia/ VT Sustained
- Supra ventricular Tachycardia and Management
- Brugada Syndrome
- Hypertrophy (ventricular, atrial, septal)
- Intraventricular Delay
- Ectopic atrial Rhythm
- Bundle Branch block
- Heart Block (First and second degree, complete Heart block)
- Hyperkalemia
- Drugs toxicity
- Unicuspid, Bicuspid and quadricuspid aortic valve
- Premature Ventricular Complex (PVC)
- Premature Atrial Complex (PAC)
- Mitral valve prolapse
- Atrial fibrillation
- Methemoglobinemia
- Cardiac Contusion
- Anomalous left coronary artery off the pulmonary artery (ALCAPA)
- Approach to wheezing
- cardiomyopathy
- Non compaction Left Ventricle
- Taussing Bing anomaly
- Mixed connective Tissue
- Endocardial fibroelastosis (from fetus's Mother with SLE)
- Aorta Pulmonary window
- Echogenic focus
- Fistula coronary artery
- Rhabdomyoma

- Tuberos sclerosis
- Article seen:
“ Anatomical and pathological findings in hearts from fetuses and infants with cardiac manifestations of neonatal lupus”.

Hemato/Oncology

- Round every day
- Observer ship of Counseling with the patients and parents by the attending.
- See peripheral smear at the microscope with the team
- Active participation on patient’s examination with the team and case discussion with the attending

Cases seen

- Hemophilia
- Lymphoma hodking
- Opsoclonus myoclonus neuroblastoma
- Sickle cell disease
- CVO
- Acute chest syndrome
- Thallasemia trait Beta
- Acute lymphoblastic Leukemia
- Kostman Syndrome
- B12 deficiency

Emergency

- Patient examination with the team and case discussion with the attending.
- Procedure : nebulization

Cases seen

- Asthma crisis(the most common consultation’s cause during this period)
- Costochondritis
- Pneumonia
- Compartment syndrome
- Epilepsy
- Orbital cellulitis
- Allergic reaction
- Reacted disease
- Contact dermatitis
- Fractura of right wrist
- tonsilitis

Neurology

- Round every day
- Active participation in the patient's physical exam with the team and case discussion with the attending.
- Fundoscopy

Cases seen and topics

- ADHD
- Cerebral Palsy
- Bell's palsy
- Tics
- Congenital Toxoplasmosis
- Hydrocephalus
- Somnambulism
- Autism
- General tonic clonic Seizure
- Case of seizure due to the genetic mutation of GRIN2B
- Developmental delay
- Nystagmus
- Psychogenic Seizure
- Mitochondrial disorder
- Congenital brain Malformation
- Sandifer syndrome
- Aicardi syndrome vs Dandy Walker syndrome
- Dyskinesia / stress neurologic response

- Bipolar disorder
- Neurologic exam
- Evaluation of a patient with trauma
- Congenital venous angioma
- Arterio-Venous Malformation (AVM)
- Articles of discussion:
 - ✓ Seizures in children
 - ✓ The Floppy infant: evaluation of Hypotonia

Radiology

Cases seen

CT and MRI

- Nephrogenic system fibrosis
- Parry Romberg syndrome
- ACV
- Myeloma
- Bone Metastasis
- Periventricular calcification
- Subdural hemorrhage
- Leucomalacia
- Intraventricular hemorrhage
- Medullar compression
- Fracture of the zygomatic bone
- Cervical fracture
- Cerebral hemangioma

- Meningioma
- Shwannoma
- Infarcts involved the right cerebellum hemisphere
- Vertebroplasty
- Atrophic ptotic left kidney
- Malrotation
- Osteoarthritis of the hips
- Sister Mary Joseph Nodule
- Renal calculi
- Nasal abcess
- Subcortical fracture from vascular necrosis
- Appendicitis

XRay

- Hirsprung disease
- Ileocolic intusseption
- Pleural effusion
- ACS
- Pneumonia
- Intestinal perforation

Endocrinology

- Round on the morning
- Observership of the Counseling with patients and parents by the attending
- Interpretation of bone age.

Cases seen

- Type I and II Diabetes Mellitus(Most common cause of follow up)
- Congenital hypothyroidism
- Precocious puberty
- Hashimoto's thyroid
- Familial tall stature
- Growth hormone deficiency
- Testotoxicosis
- Glycogen Storage Disease
- Down Syndrome
- Panhypopituitarism
- Polycystic ovarian

Others topics, articles and cases discussed in the conference and grand Round

- Introduction to Pediatric rheumatology.
- Management/fatigue
- Sleep disorders
- Bronchiolitis
- Basic ECG
- Persistent Pulmonary Hypertension(PPH)
- Vascular access guided by Ultrasound.
- Pharyngoconjunctival fever
- Mastoiditis
- SLE
- Superior vena cava Syndrome
- Bordetella Pertussis
- Short stature
- Nephritis lupus

- Wolf Hirshorn syndrome
- Developmental Dysplasia of the Hip
- Mock Code/ Anaphylaxis Shock
- Head Trauma
- Relationship Doctor- patient
- Management of septic Shock
- Ulcerative Colitis
- Crohn's disease
- Foreign Body
- Sexually transmitted Infections in Adolescents
- Febrile young infants
- Child abuse
- Incarcerated inguinal Hernia in a New born
- Intestinal malrotation Vs Volvulus
- Omphalocele vs Gastrochysis
- Beta Thalassemia Major
- Articles presentation by the residents:
 - ✓ Innate immunity and asthma risk in Amish and Hutterite from children
 - ✓ Comparison of oral Dexamethasone vs oral Prednisone in children with asthma exacerbation reacted in the emergency department
 - ✓ Comparative effectiveness of dexamethasone Vs Prednisone in children hospitalized with asthma
 - ✓ A randomized trial of single dose oral of Dexamethasone Vs multiple doses of prednisone in a multicenter in children with asthma exacerbation.

During this rotation, I also have the opportunity to do five presentations:

- ✓ Biliary atresia (08/24/16)
- ✓ Wilms tumor (09/07/16)

- ✓ Myocarditis (09/21/16)
- ✓ Congenital Toxoplasmosis (10/05/16)
- ✓ Diagnostic Approach to children and adolescents with Short Stature (10/26/16)

Others presentations done by other resident Haitian during this rotation

- ✓ Post Partum Hemorrhage
- ✓ Cervical Cancer
- ✓ Ectopic pregnancy
- ✓ Pancreatitis
- ✓ Atrial fibrillation

Conclusion

The rotation was really excellent. Through the different academic activities and presentations, I learned a lot during these 3 months. I also had the opportunity to familiarize myself with some medical technology and also to develop new approaches doctor- patient. For this, I also want to share this knowledge to the medical student and residents of my home Hospital.

I wish this program continues and that future residents can also benefit as me and also more the maximum possible knowledge.

I suggest that future residents practicing better English, like that they can get the most knowledge and also it would be better that residents make this rotation at the end of their second year which would allow them to have enough time to share these knowledge within their institution and also have better leadership in their third year.

Thank again to all the team that has worked to the success of this program.

