Course: Pediatric Genetics/Metabolism Course Number: PED 2114

Department: Pediatrics

Faculty Coordinator: Mary Carlin, MD

Assistant Faculty Coordinators: N/A

UTSW Education Coordinator Contact: Anthony Lee (Anthony.Lee@UTSouthwestern.edu)

Hospital: (Location of rotation) Children's Medical Center

Bldg NB, 10th floor, Room 1022 Texas Scottish Rite Hospital

G6200 – UT Medical School, G Bldg – 6th floor

AC - Aston Center- 8th floor

MCD – McDermott Center, North Campus

Periods Offered: 1-12

Length: 4 weeks

Max # of Students: 1 (Post Clerkship Students)

First Day Contact: Mary Carlin, MD

First Contact Time: 7:30am

First Day Location: Children's Medical Center –6th Floor Pavilion Genetics Clinic (Physician's

Touchdown F6-279)

Prerequisites: PED 1801 Pediatric Core Clerkship

I. Course Description

Students will be integral members of a team participating in the provision of comprehensive consultations and for follow-up of patients admitted to the Genetics/Metabolism floor. Students will also participate in the outpatient Genetics/Metabolic clinic evaluating patients referred for the full scope of concerns related to pediatric genetics and metabolism.

Goals	<u>Objectives</u>	Assessment Methods
Patient Care: Students, together with supervising faculty, must be able to provide patient care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health.	 Students will demonstrate the knowledge, attitudes and skills necessary to perform appropriately focused and accurate histories and physical assessments and document the findings accurately in the health record. Students will assist in 	 Quality of Medical Records entries Skills evaluation from direct observation.

Medical Knowledge:	development of evaluation and treatment plans, and take responsibility for implementation. • Students will develop procedural skills related to evaluating a child with a positive newborn screening result. • Construct a 3-generation pedigree from a patients' family history. • The Student will be able to	Each student is required to
Students must demonstrate knowledge about established biomedical and clinical sciences and the application of this knowledge to patient care.	explain how to use a pedigree to support a Mendelian mode of inheritance and/or designate obligate and/or possible carries of an inherited disease or trait. The student will know how to assess and manage common complaints in one inborn error tested for by the current expanded newborn screening program and discuss how to confirm whether the infant is affected, what confirmatory test(s) are indicated and what treatment(s) might be initiated. The student will know the pathophysiology of the usual cause of Down syndrome, the mechanism(s) involved and the recurrence risk for the parents, the siblings and the affected child. Demonstrate how to examine an infant or a child for dysmorphic features and/or congenital anomalies. Point out at least 5 features commonly seen in a child with Down syndrome. List at least 6 prenatal exposures and/or maternal conditions that may be teratogenic to the fetus and identify at least one	create a case presentation and to present it to the faculty and fellows during the rotation. It is recommended that students present an interesting case they encountered during their rotation. However, they are also permitted to present on a topic of interest that relates to pediatric course topic.
Interpersonal and Communication Skills: Students must be able to demonstrate interpersonal and communication skills that result in effective information exchange with health care professionals and families.	abnormality it may cause. Use effective listening skills and elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills. These include taking complete history from pediatric patient and their family and writing a careful evaluation in the chart.	Observations of faculty and staff.

Practice-Based Learning and Improvement: Students must be able to assimilate scientific evidence and improve their patient care practices.	 Work effectively with others as a member of a health care team. Locate and assimilate evidence from scientific studies related to their patients' health problems, including literature searches. Use information technology to manage information, access online medical information; and support their own education. 	 Each student is required to create a case presentation and to present it to the faculty and fellows during the rotation. It is recommended that students present an interesting case they encountered during their rotation. However, they are also permitted to present on a topic of interest that relates to pediatric course topic. Critical review of a relevant article.
Professionalism: Students must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.	 Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and their families; accountability to patients and their families and the profession; and a commitment to excellence and on-going professional development. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, and confidentiality of patient information. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities. 	Observations of faculty and staff.

II. Methods of Instruction

Didactic: (Schedule, Topic and Faculty)

Day	Time	Conference	Venue
Mondays	8:00am – 9:00am	Cancer Conference (Optional)	North Campus
	12:00pm – 1:00pm	Resident's Noon Conference	Doctor's Dining Room (CMC Lobby Level)
Tuesdays	12:00pm – 1:00pm	Multidisciplinary Conference – Pediatrics	Moore Auditorium (CMC)
Wednesdays	8:00am – 9:00am	Pediatric Grand Rounds	Moore Auditorium (CMC)
	12:00pm -1:00pm	Resident's Noon Conference	Doctor's Dining Room (CMC Lobby Level)
Thursdays	12:00pm – 1:00pm	Resident's Noon Conference	Doctor's Dining Room (CMC Lobby Level)
Fridays	8:30am – 9:30am	Friday Morning Report	Moore Auditorium (CMC)
	9:30am – 10:30am	Genetics Conference	North Campus – McDermont Center

13,00, 1,00,	Resident's Noon Conference	Doctor's Dining Room (CMC Lobby Level)
12:00pm – 1:00pm	Perinatal Case Conference (2 nd & 4 th)	South Campus UTSW – G6200
3:00pm – 4:00pm (2 nd Fridays only)	Journal Club	TBD

Clinical: (Schedule, Faculty Teaching and House-Staff Teaching)

Day	Time	Clinic	Location	
Mondays	8:30am – 12:00pm	Genetics/Dysmorphology Clinic	6 th Floor Pavilion CMC	
	1:30pm – 4:00pm	Genetics/Dysmorphology Clinic	6th Floor Pavilion CMC	
	4:00pm	Hospital Consultations (Check	6th Floor Pavilion CMC	
	4.00μπ	w/ Fellows and Attending)	Oth Floor Favillon Civic	
		Optional Clinic(s)		
	12:30pm – 4:00pm	Holoprosencephaly Clinic (Optional Clinic)	Texas Scottish Rite Hospital	
	8:30am – 12:00pm	Metabolic Clinic	6th Floor Pavilion CMC	
	1:30pm – 4:00pm	Metabolic Clinic	6th Floor Pavilion CMC	
	4:00pm -	Hospital Consultations (Check	6th Floor Pavilion CMC	
	4.00pm -	w/ Fellows and Attending)	BUT FIDOT PAVIITOTI CIVIC	
Tuesdays		Optional Clinic(s)		
lucsuuys		Tuberous Sclerosis Clinic (1st,		
	12:30pm – 4:00pm	3 rd ,5 th Tuesdays only) (Optional	Texas Scottish Rite Hospital	
		clinic)		
	1:30pm – 4:00pm	Adult Genetics Clinic (Optional	Aston Center 8 th Floor	
	·	Clinic)		
	9:00am – 12:00pm	Genetics Clinic	6th Floor Pavilion CMC	
	1:00pm – 3:00pm	Metabolic Case Conference	TBD – Check with Attending	
	Optional Clinic(s)			
Wednesdays	9:00am – 12:00pm	Rainbow Developmental Clinic (Optional Clinic)	6th Floor Pavilion CMC	
	1:00pm – 3:00pm	Spina Bifida Clinic	Texas Scottish Rite Hospital	
	12:30pm – 4:00pm	Neurofibromatosis Clinic	Bldg NB, 10th floor, Room 1022	
	12.50pm = 4.00pm	(weekly)	Blug NB, 10th 11001, NOOH 1022	
	8:30am – 12:00pm	Down Syndrome Clinic &		
		Newborn Screening Follow up	6th Floor Pavilion CMC	
		(every other week)		
Thursdays	1:00pm – 4:00pm	Genetics/Dysmorphology Clinic	6th Floor Pavilion CMC	
maisaays	4:00pm -	Hospital Consultations (Check w/ Fellows and Attending)	6th Floor Pavilion CMC	
	1:00pm – 4:00pm	Molecular Genetics (One	McDermott Center, North	
		Thursday during rotation)	Campus	
Fridays	8:30am – 12:00pm	Down Syndrome Clinic	6th Floor Pavilion CMC	
	2:00pm -	Hospital Consultations (Check	6th Floor Pavilion CMC	
		w/ Fellows and Attending)		
Saturdays	9:00am or 9:30am	Metabolic Patient Rounds	Main CMC Hospital (Check with	
			Fellows and Attending)	
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III. Overview of Student Responsibilities

- Evaluate new inpatients, present to attending and follow until discharge.
- In clinics, see new patients and present patient information to attending.

IV. Method of Evaluation of Students and Requirements

Pass-fail grades; there are no examinations. Evaluations of the student by the faculty will be based on achievement of the stated objectives of the course. This will be assessed by the student's preparation, fund of knowledge, participation in clinic, and participation in didactic sessions.