PEDS 812J: Pediatric Cardiology

Course Director: Varsha Bandisode, MD
Email: bandisvm@musc.edu

Course Coordinator: Emily McGinnis
Telephone #: 843-792-8362
Email: mcginnie@musc.edu

BLOCK	#	BLOCK	#	BLOCK	#	BLOCK	#
Block 1A	2	Block 3A	2	Block 5A	2	Block 7A	2
Block 1B	0	Block 3B	0	Block 5B	0	Block 7B	0
Block 1C	2	Block 3C	2	Block 5C	2	Block 7C	2
Block 2A	0	Block 4A	0	Block 6A	0	Block 8A	0
Block 2B	2	Block 4B	2	Block 6B	2	Block 8B	2
Block 2C	0	Block 4C	0	Block 6C	0	Block 8C	0

COURSE DESCRIPTION:
On this course, students will have opportunities to strengthen their understanding of normal cardiac anatomy and physiology, interact and assist in management of patients with abnormalities in cardiac anatomy and physiology, and participate and view corrective and palliative procedures. Students will participate certain areas of pediatric cardiology including outpatient pediatric cardiac consultations for new patients, the outpatient established patient evaluation, step-down floor evaluation of the pre-operative and post-operative patient, and trans-catheter corrective procedures.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation, students should be able to do the following:
1. Demonstrate their understanding of normal cardiac anatomy and physiology. Be able to describe the various common congenital cardiac alterations in anatomy and physiology. Acknowledge their limitations in knowledge and correct those deficits. (MK4, MK1, MK8, PD2)
2. Demonstrate their ability to participate as a member of the diverse cardiac care team providing patient care in the outpatient and inpatient setting. Be able to demonstrate ownership of the patient, and responsibly provide continuity of care with each patient and the care team. (PC1, PC5, CS1, CS5, PR1, IP4)
3. Demonstrate an understanding of the barriers and socio-economic challenges for the complex congenital pediatric and adult patient, their families, and demonstrate an understanding of the necessary support structures integral to patient care. (PR3, PR1, SL4)
4. Participate in cardiac procedures with sterile preparation and management of a sterile environment in a cardiac procedural suite. Observe cardiac surgical procedures for an understanding of the complexity of congenital cardiac surgery. (PC6, MK5, PC7)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Participation as an integral member of the cardiac inpatient team.
2. Participation in the critical evaluation and assessment of the pediatric cardiac consult.
3. Evaluation and assessment of the preoperative pediatric cardiac patient, and follow-up of the patient in the early post-operative period focusing on the altered cardiac physiology.
4. Attendance at cardiology clinics to improve pediatric cardiac exam skills and outpatient evaluation techniques.
5. Participation in specialized therapeutic modalities that aide in diagnosis and management of the complex pediatric cardiac patient. The student will be given opportunities to observe cardiac catheterization available for delineating complex anatomy and interventional techniques for therapy.
6. Attend weekly care conferences: surgical and cath conferences – to understand the integration of medical and surgical care teams in the care of each congenital patient, and attend educational conferences for didactic teaching of congenital heart disease.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Patient with a common cardiac diagnosis (i.e. VSD, ASD, and PDA, AV Canal defect, TOF, etc.)
2. Complex cardiac patient, including patients with Single ventricular physiology in varying stages of repair
3. Critically ill premature or full-term neonate patient with secondary pulmonary hypertension
4. Acquired heart disease, including cardiomyopathy, myocarditis, or Kawasaki's disease
5. Cyanotic neonatal or pediatric patient

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. E*Value Clinical Performance Evaluation.
2. Direct observation and in-person feedback by attending physicians and residents.

Will students be expected to participate in call? ☐ YES ☒ NO