

# Adult Congenital Heart Disease Service

Location: UWMC

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## Introduction:

The ACHD services provides care to patients with congenital heart disease as well as women with structural heart disease during pregnancy and the post-partum period. Care involves both inpatient and outpatient management, perioperative care, and ACHD imaging.

## Learning Goals and Objectives

Medical knowledge and patient care. Please refer to supplementary material for more details on specific lesions

1. Learn to evaluate patients with ACHD in the outpatient setting
  - a. Become familiar with a broad group of congenital heart disease conditions
  - b. Learn about the late complications of different repairs for CHD
  - c. Learn about the natural history of unrepaired CHD, particularly simple lesions such as VSD, PDA, BAV but also complex physiology such as Eisenmenger syndrome
  - d. Learn the components of the history and physical examination which indicate complications of repaired CHD
  - e. Learn appropriate follow-up for patients with repaired and unrepaired CHD.
2. Understand the indications for intervention to treat CHD including but not limited to:
  - a. Indications for PVR in patients with tetralogy of Fallot
  - b. Indications for closure of ASD, VSD, PDA
  - c. Indications for intervention on a native or repaired coarctation
  - d. Indications for tricuspid valve intervention in Ebstein anomaly
3. Understand the common complicating comorbidities in patients with CHD
  - a. Arrhythmias associated with CHD
  - b. Pulmonary vascular disease in patients with CHD
4. Learn to evaluate ACHD patients in the inpatient setting
  - a. How to manage ACHD patients hospitalized with cardiac complications such arrhythmia, heart failure, or endocarditis
  - b. Manage and consult on complex ACHD patients admitted with non-cardiac medical conditions
5. Learn to manage ACHD patients in the peri-operative setting
  - a. Learn consultative management of post-surgical ACHD patients
6. Learn to evaluate and manage pregnant women with CHD or valvular heart disease
  - a. Learn normal and abnormal physiology and physical exam findings in pregnancy
  - b. Learn to risk stratify patients with CHD who are considering pregnancy or are pregnancy
  - c. Learn about medical management of cardiac conditions during pregnancy

- d. Learn about the physiology of labor and delivery in women with cardiovascular disease and the role of epidural, caesarean section delivery, vaginal delivery
7. Become comfortable interpreting echocardiograms in patients with repaired and unrepaired CHD and familiar with indications for cardiac CT and cardiac MRI

### System based practice and practice based learning

1. Participate in multi-disciplinary ACHD case conference
2. Effectively communicate between multiple services including ACHD, CT surgery, Anesthesia, Echo, inpatient cardiology, OBGYN, medicine services.
3. Recognize/address social, cultural, and financial barriers to patient compliance
4. Recognize/address barriers to care.
5. Examine evidence for common practice decisions and review existing practice guidelines

### Professionalism and communication

1. Practice patient-centered care with shared decision-making and appreciation of patients' values and preferences
2. Interact respectfully with patients, families, and members of the healthcare team, including ancillary and support staff
3. Communicate effectively with patients and families across a broad spectrum of ethnic, social, cultural, socioeconomic, and religious backgrounds
4. Concisely report diagnostic and therapeutic reasoning in documentation.

### Clinical responsibilities

1. At beginning of rotation, orientation with Jilian Angiulo, ACHD RN team, ACHD faculty member
2. Prepare for and attend ACHD clinic according to schedule throughout the week. Fellows often find it beneficial to prepare for clinic the day before given that anatomy and repairs may be unfamiliar. "Diagnosis and Management of Adult Congenital Heart Disease" 3rd Edition is a good resource to learn about the CHD diagnoses. You may also be assigned to other clinics during your rotation such as pregnancy clinic, connective tissue disorder clinic, cardiogenetic clinic.
3. Work with the senior ACHD fellows and faculty to prepare for ACHD surgical conference on Thursday AM. Present 1 patient per week at ACHD surgical conference Thursday, 7 AM.
4. When time permits, pre-read ACHD echocardiograms and read them out with the designated ACHD reader of the day
5. Round with the inpatient ACHD attending on inpatients and write consult notes as appropriate. You may be partnered with a senior ACHD fellow on your month in which case you can share the responsibilities depending on daily schedules and patient census.
6. Attend other ACHD learning opportunities during your month including journal club, ACHD didactics if they do not pose clinical conflicts.