

CT Children's CLASP Guideline

Connecticut Adult Congenital Heart Service (CTACH)

INTRODUCTION	Congenital heart disease (CHD) is the most common birth defect, accounting for ~1% of all live births. 20,000-40,000 children with CHD graduate to adulthood each year. There are over 1.4 million adults with congenital heart disease living in the USA. Adults with CHD have been shown to have better outcomes when followed in a specialized adult congenital heart disease (ACHD) center. CT Children's became the first accredited ACHD program in the state in 2018.
INITIAL EVALUATION AND MANAGEMENT	INITIAL EVALUATION: <ul style="list-style-type: none">▪ The focus of the initial evaluation by the referring provider should be on classifying the CHD into mild, moderate, or great complexity. This determines where the patient should receive care, and how often. (<i>See Appendix: Referral Guidelines to CTACH</i>)▪ Obtain routine blood work, ECG per referring provider discretion▪ All other testing (echocardiogram, cardiac MRI, cardiac cath, EP evaluation, etc.) is preferred to be completed through Connecticut Adult Congenital Heart Service (CTACH)
WHEN TO REFER	URGENT REFERRAL to Connecticut Children's CTACH Service: (will be seen within 1 week or less) for any of the following, regardless of complexity of CHD: <ul style="list-style-type: none">▪ Acute cardiac issues: Worsening of pre-existing arrhythmia or new arrhythmia, symptoms of heart failure, or worsening cyanosis▪ Worsening of pre-existing pulmonary hypertension (PH) or new development of PH▪ Patients who become pregnant or plan on becoming pregnant ROUTINE REFERRAL to Connecticut Children's CTACH Service: (initial consultation within 4 weeks) for: <ul style="list-style-type: none">▪ Mild complexity CHD: patient can be managed by their general cardiologist or internist. CTACH providers can provide support and advice to the referring provider by phone, or can see patients for consultation as needed▪ Moderate complexity CHD: can be co-managed. CTACH program will manage the congenital abnormalities, while the general adult cardiologist can manage coronary disease, hypertension, hyperlipidemia, etc. Management of heart failure is done collaboratively▪ Great complexity CHD: Cardiac care should primarily occur within the CTACH program
HOW TO REFER	Referral to Connecticut Adult Congenital Heart (CTACH) Disease Service via CT Children's One Call Access Center For more information on how to place referrals to Connecticut Children's, click here . Phone: 833.733.7669 Fax: 833.226.2329 Information to be included with the referral: <ul style="list-style-type: none">▪ Most recent office visit note▪ Available copies of ECG, echocardiogram or other imaging data, preferably with image CDs and operative reports
WHAT TO EXPECT	What to expect from CT Children's Visit: <ul style="list-style-type: none">▪ Outpatient clinic visit with an adult congenital specialist. We have 3 board certified ACHD doctors and 1 highly trained ACHD APRN▪ In office testing, including an ECG and an echocardiogram, are completed during the first appointment▪ Subsequent testing such as a cardio-pulmonary exercise testing, cardiac MRI, right heart cath, and EP study will be scheduled as needed based on the initial visit

APPENDIX: Referral Guideline to Connecticut Adult Congenital Heart Service (CTACH)

Mild Complexity CHD	Moderate Complexity CHD	Great Complexity CHD
<p><u>Native disease</u></p> <ol style="list-style-type: none"> 1. Isolated congenital aortic valve disease 2. Isolated congenital mitral valve disease (e.g., except parachute valve, cleft leaflet) 3. Small atrial septal defect Isolated small ventricular septal defect (no associated lesions) 4. Mild pulmonary stenosis Small patent ductus arteriosus <p><u>Repaired conditions</u></p> <ol style="list-style-type: none"> 1. Previously ligated or occluded ductus arteriosus 2. Repaired secundum or sinus venosus atrial septal defect without residua 3. Repaired ventricular septal defect without residua <div data-bbox="151 1291 443 1696" style="border: 1px solid green; padding: 5px; margin-top: 20px;"> <p style="text-align: center;">LOCUS OF CARE RESTS WITH GENERAL CARDIOLOGY</p> <p style="text-align: center;">Phone/email/clinic consultation with CTACH if needed</p> </div>	<ol style="list-style-type: none"> 1. Aorto–left ventricular fistulas drainage Partial or total 2. Atrioventricular septal defects (partial or complete) 3. Coarctation of the aorta 4. Ebstein’s anomaly 5. Infundibular right ventricular outflow obstruction of significance 6. Ostium primum atrial septal defect 7. Patent ductus arteriosus (not closed) 8. Moderate to severe pulmonary valve regurgitation or stenosis 9. Sinus of Valsalva fistula/aneurysm 10. Sinus venosus atrial septal defect 11. Subvalvular AS or Supra AS (except HOCM) 12. Tetralogy of Fallot 13. Ventricular septal defect with: <ul style="list-style-type: none"> - Absent valve or valves - Aortic regurgitation - Coarctation of the aorta - Mitral disease - Right ventricular outflow tract obstruction - Straddling tricuspid/mitral valve - Subaortic stenosis <div data-bbox="625 1239 917 1705" style="border: 1px solid orange; padding: 5px; margin-top: 20px;"> <p style="text-align: center;">CO-MANAGEMENT BETWEEN GENERAL CARDIOLOGY AND CTACH</p> <p style="text-align: center;">Annual follow-up, alternating with CTACH or sooner as needed</p> </div>	<ol style="list-style-type: none"> 1. Conduits, valved or non-valved 2. Cyanotic congenital heart (all forms) 3. Double-outlet ventricle 4. Eisenmenger syndrome 5. Fontan procedure 6. Mitral atresia 7. Single ventricle (also called double inlet or outlet, common, or primitive) 8. Pulmonary atresia (all forms) 9. Pulmonary vascular obstructive disease 10. Transposition of the great arteries 11. Tricuspid atresia 12. Truncus arteriosus/hemitruncus 13. Other abnormalities of atrio-ventricular or ventriculo-arterial connection not included above: <ul style="list-style-type: none"> - Crisscross heart - L-isomerism - Heterotaxy syndromes - Ventricular inversion (L-transposition) <div data-bbox="1128 1207 1421 1705" style="border: 1px solid red; padding: 5px; margin-top: 20px;"> <p style="text-align: center;">PRIMARY MANAGEMENT BY CTACH, CONSULTATION WITH GENERAL CARDIOLOGY AS NEEDED</p> <p style="text-align: center;">Annual CTACH evaluation or sooner as needed</p> </div>
<p>Please call to discuss whether referral is needed and/or if diagnoses do not fall under above classification, refer to CTACH service for determination of complexity and further management.</p>		