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A. Heart Murmur [ICD-9 Code: 785.2] [ICD-10 Code: R01.1, R01.0]

Refer to Cardiology	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
 < 1 month or any age with symptoms: (Failure to thrive/poor feeding, cyanosis, decreased pulses, respiratory distress) 	► Please call Cardiology for immediate consultation 714-509-3939	► None	► Consult; Pulse oximetry; ECG; Echocardiogram; Chest X-ray	► Cardiac catheterization; Chest CT with angiogram; Cardiac MRI
 1 to 6 months AND asymptomatic 	► Within two weeks	► None	► Consult; Pulse oximetry; ECG; Echocardiogram; Chest X-ray	► Cardiac catheterization; Chest CT with angiogram; Cardiac MRI
 > 6 months AND asymptomatic 	► First Available	► None	► Consult; Pulse oximetry; ECG; Echocardiogram	► Cardiac catheterization; Chest CT with angiogram; Cardiac MRI

- B. Palpitations [ICD-9 Code: 785.1] [ICD-10 Code: R00.2]
- C. Arrhythmia [ICD-9 Code: 427.9] [ICD-10 Code: 149.9]
- D. Abnormal ECG [ICD-9 Code: 794.31] [ICD-10 Code: R94.31]

Refer to Cardiology

Asymptomatic

Timeframe

► First available

Pre-Referral Workup

▶ None

Pre-Authorization

► Consult; ECG; Echocardiogram; 24-hour Holter monitor

Further Testing May Include:

➤ 30-day event monitor; Exercise stress test; Electrophysiology study

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E. Chest Pain [ICD-9 Code: 786.5*] [ICD-10 Code: R07.*]

F. Syncope [ICD-9 Code: 780.2] [ICD-10 Code: R55]

Refer to Cardiolog

Exertional

Timeframe

► Within one week or call Cardiology for immediate consultation

Pre-Referral Workup

► None-Recommend activity restriction until cardiology visit

Pre-Authorization

► Consult; ECG; Echocardiogram; Exercise stress test w/ pulmonary function test

Further Testing May Include:

➤ 30-day event monitor; Exercise stress test; Cardiac catheterization with electrophysiology study; Cardiac MRI

Nonexertional

► First available

714-509-3939

None

- ► Consult; ECG; Echocardiogram
- ➤ 30-day event monitor; Exercise stress test; Cardiac catheterization with electrophysiology study; Cardiac MRI

G. Hypertension [ICD-9 Code: 401.9] [ICD-10 Code: I10]

Refer to Cardiology

 Average SBP/DBP ≥ 90th % with comorbid factors over 3 visits or ≥ 95th % for age/sex/height

Timeframe

► First available

Pre-Referral Workup

► Basic metabolic panel, CBC, Thyroid function tests based on history: +/- HgbA1C, Cholesterol panel, Renal workup

Pre-Authorization

► Consult; ECG; Echocardiogram

Further Testing May Include:

Cardiac catheterization; Chest CT with angiogram

Reference:

Diagnosis, management and treatment of high blood pressure in children and adolescents (2004) http://www.nhlbi.nih.gov/health/prof/heart/hbp/hbp_ped.pdf

Tables 3 and 4-Blood pressure levels for boys and girls by age and height percentile

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H. Attention Deficit Hyperactivity Disorder (ADHD) [ICD-9 Code: 314.01] [ICD-10 Code: F90.*]

Refer to Cardiology

Abnormal ECG

Timeframe

► First available

Pre-Referral Workup

▶ None

Pre-Authorization

► Consult; ECG; Echocardiogram; 24-hour Holter monitor

Further Testing May Include:

► Exercise stress test

Reference:

AHA scientific statement for cardiovascular monitoring of children receiving medications for ADHD (2008)

http://circ.ahajournals.org/content/117/18/2407.full.pdf

Table 3-Cardiac effects of medications used to treat ADHD

Table 4-ECG findings and referral recommendations

I. Kawasaki Disease [ICD-9 Code: 446.1] [ICD-10 Code: M30.3]

Refer to Cardiology

 Uncomplicated (No or transient coronary artery ectasia/minimal cardiac involvement)

Timeframe

▶ 2 weeks and 6-8 weeks post onset of illness

▶ To be determined

based on inpatient

cardiology consult

Pre-Referral Workup

▶ None

▶ None

Pre-Authorization

► Follow up visit; ECG; Echocardiogram

► Follow up visit: ECG: Echocardiogram

Further Testing May Include:

None

► Chest CT with angiogram; Cardiac catheterization

Reference:

Complicated

Diagnosis, treatment, and long term management of Kawasaki Disease (2004) http://circ.ahajournals.org/content/110/17/2747.full.pdf

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Genetic Disorders:

J. Marfan [ICD-9 Code: 759.82] [ICD-10 Code: Q87.4*] K. Turner [ICD-9 Code: 758.6] [ICD-10 Code: Q96.*] L. Downs [ICD-9 Code: 758.0] [ICD-10 Code: Q90.*] M. DiGeorge [ICD-9 Code: 279.11] [ICD-10 Code: D82.1]

N. Noonan [ICD-9 Code: 759.89] [ICD-10 Code: Q87.89] O. Muscular Dystrophy [ICD-9 Code: 359.*] [ICD-10 Code: G71.*]

Refer to Cardiology

When suspected

Timeframe

► First available

Pre-Referral Workup

▶ None

Pre-Authorization

► Consult; Pulse oximetry; ECG; Echocardiogram; Chest X-ray

Further Testing May Include:

► Chest CT with angiogram; Cardiac catheterization

P. Premature [ICD-9 Code: V21.3*] [ICD-10 Code: P07.0*, P07.1*, P07.3*]

Or Term Infants with:

Q. Patent Ductus Arteriosus(PDA) [ICD-9 Code: 747.0] [ICD-10 Code: Q25.0] R. Atrial Septal Defect (ASD) [ICD-9 Code: 745.5] [ICD-10 Code: Q21.1] S. Small Ventricular Septal Defect (VSD) [ICD-9 Code: 745.4] [ICD-10 Code: Q21.0]

Refer to Cardiology

Asymptomatic

Symptomatic

Timeframe

▶ 1 - 2 months post discharge

► To be determined

based on inpatient

cardiology consult

Pre-Referral Workup

▶ None

▶ None

Pre-Authorization

► Consult; Pulse oximetry; ECG; Echocardiogram; Chest X-ray

► Follow up visit; Pulse oximetry; ECG; Echocardiogram; Chest X-ray

Further Testing May Include:

None

None

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T. Hyperlipidemia [ICD-9 Code: 272.4] [ICD-10 Code: E78.4, E78.5]

Screen Patients

- Age 2 10 yrs. if family history of dyslipidemia or early cardiovascular disease (< 55 yrs. for men/
 < 65 yrs. for women)
- Patient overweight (body mass index 85 95th %) or obese (BMI > 95th %)
- Systemic hypertension (SBP/DBP ≥ 95th %)
- Diabetes mellitus

Refer to Cardiology

- Triglyceride level >300
- Patients with BMI ≥ 90th % and elevated triglycerides (<500mg/dl) refer patient to a weight management program and demonstrate participation for 6 months without affect on triglyceride levels before referring to the lipid disorders clinic
- LDL > 160 and no family history of CVD
- LDL> 130 with family history of premature CVD or cerebrovascular disease.

Workup

► Fasting lipid profile

Timeframe

- ► First available
- Priority scheduling for TG ≥ 500
- Please call Dr. Muhonen for consult on TG ≥ 1000

714-509-3939

Pre-Referral Workup

- Hepatic and thyroid function panel; fasting insulin and glucose levels; Urinalysis
- ► Consider Referral to:
 - PODER (Prevention of Obesity and Diabetes through Education and Resources) for all ages

714-509-7323

 N.E.W. You Nutrition Class for adolescents

714-509-8455

Pre-Authorization

► Consult; ECG; Echocardiogram

Further Testing:

None

Reference:

Lipid screening and cardiovascular health in childhood (2008) http://pediatrics.aappublications.org/content/122/1/198.full.pdf

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