

PEDIATRIC CARDIOLOGY REFERRAL GUIDELINES

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For appointments, please call the Patient Access Center at: 888-770-2462 (888-770-CHOC)

Complete the CHOC Specialists Cardiology Referral Request Form located at <http://www.choc.org/chocdocs/referral-guidelines/>

Fax the Referral Request Form along with ALL pertinent medical records to: 855-246-2329 (855-CHOC-FAX)

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HEART MURMUR

[ICD-9 CODE: 785.2] [ICD-10 CODE: R01.1, R01.0]

Refer to Cardiology

< 1 month or any age with symptoms: (Failure to thrive/poor feeding, cyanosis, decreased pulses, respiratory distress)

1 to 6 months AND asymptomatic

> 6 months AND asymptomatic

Timeframe

Please call Cardiology for immediate consultation 714-509-3939

Within two weeks

First Available

Pre-Referral Workup

None

None

None

Pre-Authorization

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

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

Consult; Pulse oximetry; ECG; Echocardiogram

Further Testing May Include:

Cardiac catheterization; Chest CT with angiogram; Cardiac MRI

Cardiac catheterization; Chest CT with angiogram; Cardiac MRI

Cardiac catheterization; Chest CT with angiogram; Cardiac MRI

PALPITATIONS ARRHYTHMIA ABNORMAL ECG

[ICD-9 CODE: 785.1] [ICD-10 CODE: R00.2]

[ICD-9 CODE: 427.9] [ICD-10 CODE: I49.9]

[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

Cont'd>>>

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CHEST PAIN SYNCOPE

**[ICD-9 CODE: 786.5*] [ICD-10 CODE: R07.*]
[ICD-9 CODE: 780.2] [ICD-10 CODE: R55]**

Refer to Cardiology

Exertional

Timeframe

Within one week or call
Cardiology clinic nurse
for triage 714-509-3939

Pre-Referral Workup

None-Recommend
activity restriction
until cardiology visit

Pre-Authorization

Consult; ECG; Echo-
cardiogram; Exercise
stress test w/ pulmo-
nary function test

Further Testing May Include:

30-day event monitor;
Exercise stress test; Cardiac
catheterization with electro-
physiology study; Cardiac MRI

Nonexertional

First available

None

Consult; ECG; Echo-
cardiogram

30-day event monitor;
Exercise stress test; Cardiac
catheterization with electro-
physiology study; Cardiac MRI

HYPERTENSION

[ICD-9 CODE: 401.9] [ICD-10 CODE: I10]

Refer to Cardiology

Average SBP/DBP \geq
90th % with comorbid
factors over 3 visits or
 \geq 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; Echo-
cardiogram

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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ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD) [ICD-9 CODE: 314.01] [ICD-10 CODE: F90]

Refer to Cardiology	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
Abnormal ECG	First available	None	Consult; ECG; Echo-cardiogram; 24-hour Holter monitor	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

KAWASAKI DISEASE [ICD-9 CODE: 446.1] [ICD-10 CODE: M30.3]

Refer to Cardiology	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
Uncomplicated (No or transient coronary artery ectasia/minimal cardiac involvement)	2 weeks and 6-8 weeks post onset of illness	None	Follow up visit; ECG; Echocardiogram	None
Complicated	To be determined based on inpatient cardiology consult	None	Follow up visit; ECG; Echocardiogram	Chest CT with angiogram; Cardiac catheterization

Reference:

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:

MARFAN	[ICD-9 CODE: 759.82] [ICD-10 CODE: Q87.4*]
TURNER	[ICD-9 CODE: 758.6] [ICD-10 CODE: Q96.*]
DOWNS	[ICD-9 CODE: 758.0] [ICD-10 CODE: Q90.*]
DIGEORGE	[ICD-9 CODE: 279.11] [ICD-10 CODE: D82.1]
NOONAN	[ICD-9 CODE: 759.89] [ICD-10 CODE: Q87.89]
MUSCULAR DYSTROPHY	[ICD-9 CODE: 359.*] [ICD-10 CODE: G71.*]

Refer to Cardiology	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
When suspected	First available	None	Consult; Pulse oximetry; ECG; Echocardiogram; Chest X-ray	Chest CT with angiogram; Cardiac catheterization

PREMATURE [ICD-9 CODE: V21.3*] [ICD-10 CODE: P07.0*, P07.1*, P07.3*] **OR TERM INFANTS WITH:**

PATENT DUCTUS ARTERIOSUS (PDA)	[ICD-9 CODE: 747.0] [ICD-10 CODE: Q25.0]
ATRIAL SEPTAL DEFECT (ASD)	[ICD-9 CODE: 745.5] [ICD-10 CODE: Q21.1]
SMALL VENTRICULAR SEPTAL DEFECT (VSD)	[ICD-9 CODE: 745.4] [ICD-10 CODE: Q21.0]

Refer to Cardiology	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
Asymptomatic	1 - 2 months post discharge	None	Consult; Pulse oximetry; ECG; Echocardiogram; Chest X-ray	None
Symptomatic	To be determined based on inpatient cardiology consult	None	Follow up visit; Pulse oximetry; ECG; Echo-cardiogram; Chest X-ray	None

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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

Workup

Fasting lipid profile

Refer to Cardiology

- Triglyceride level >200
- Patients with BMI ≥ 90th % and elevated triglycerides (<500mg/dl) See lipid referral and treatment guidelines
- LDL > 160 and no family history of CVD
- LDL > 130 with family history of premature CVD or cerebrovascular disease.

Timeframe

- First available
- Priority scheduling for TG ≥ 500
- Please call the Cardiology clinic nurse for triage on TG ≥ 1000 714-509-3939

Pre-Referral Workup

- Fasting Lipid Profile, Complete Metabolic Panel, Urinalysis, T4, TSH, HgbA1c
- 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 May Include:

None

Reference:

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

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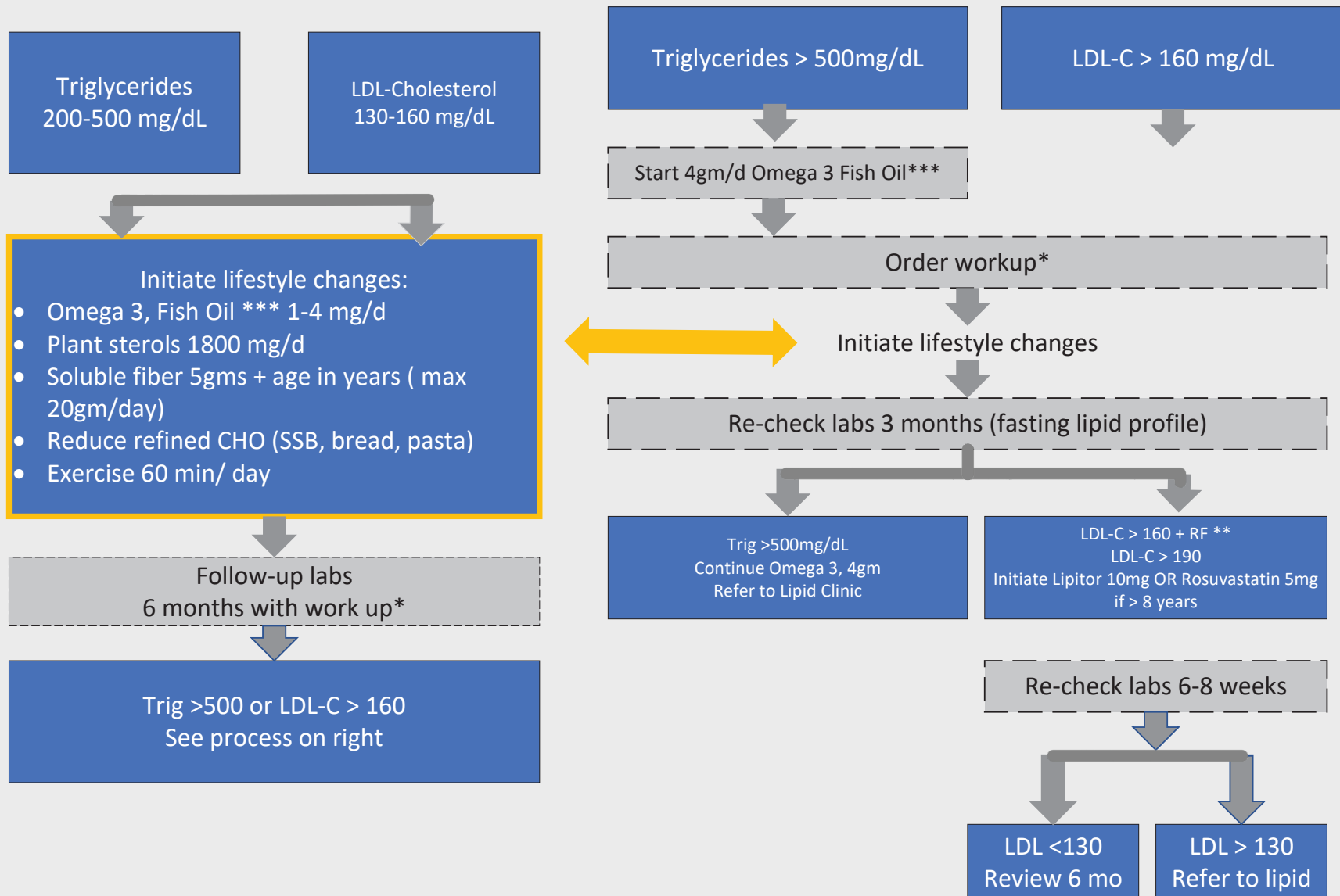
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Lipid Referral and Treatment Guidelines



*Workup to include: FLP, CMP, UA, T4, TSH, HgbA1c

** Risk factors: BMI > 85%, HTN, smoking, DM, CKD, ESRD, Inflammatory disease, CM, Kawasaki, PCOS, NAFLD, Pulmonary HTN, CHD c/w coronary translocation

*** If allergy to Fish use plant based Omega 3 such as Flax Seed



CHOC SPECIALISTS CARDIOLOGY
CHOC COMMERCE TOWER
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ORANGE, CA 92868

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