CHOC Specialists

PEDIATRIC CARDIOLOGY REFERRAL GUIDELINES

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

PALPITATIONS [ICD-9 CODE: 785.1] [ICD-10 CODE: R00.2]
ARRHYTHMIA [ICD-9 CODE: 427.9] [ICD-10 CODE: I49.9]
ABNORMAL ECG [ICD-9 CODE: 794.31] [ICD-10 CODE: R94.31]

Refer to Cardiology	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
Asymptomatic	First available	None	Consult; ECG; Echocardiogram; 24-hour Holter monitor	30-day event monitor; Exercise stress test; Electrophysiology study

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

Refer to Cardiology	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
Exertional	Within one week or call Cardiology clinic nurse for triage 714-509-3939	None-Recommend activity restriction until cardiology visit	Consult; ECG; Echo-cardiogram; Exercise stress test w/ pulmo-nary function test	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	Timeframe	Pre-Referral Workup	Pre-Authorization	Further Testing May Include:
Average SBP/DBP ≥ 90th % with comorbid factors over 3 visits or ≥ 95th % for age/sex/ height	First available	Basic metabolic panel, CBC, Thyroid function tests based on history: +/- HgbA1C, Cholesterol panel, Renal workup	Consult; ECG; Echo-cardiogram	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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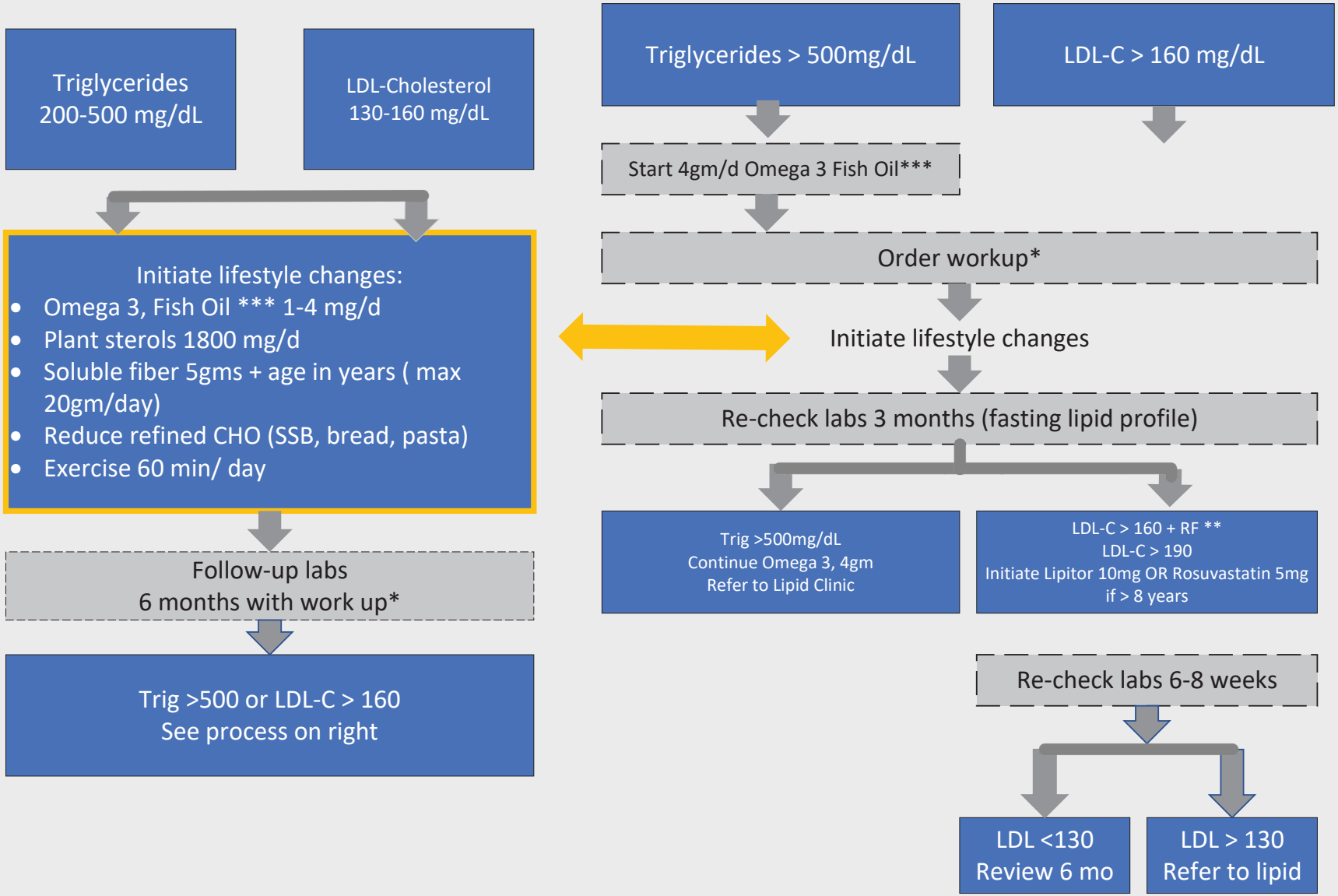
Lipid Referral and Treatment Guidelines



*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

Updated: 10.31.2023

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CHOC COMMERCE TOWER
505 S. MAIN ST., SUITE 600
ORANGE, CA 92868

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