CT Children’s CLASP Guideline Algorithm

Lipid Abnormalities – Screening, Evaluation & Management

**UNIVERSAL SCREENING:**
Age: 9, 11, and 12-21

**TARGETED SCREENING:**
At age > 2 years, with any of the below:
- Positive family history
- Parent with total cholesterol > 240 or known dyslipidemia
- > 2 high-level RFs OR 1 high-level RF PLUS > 2 medium-level RFs

**INITIAL SCREENING**
Low-fasting non-HDL C and HDL C level

- Age < 20:
  - non-HDL C > 165 or HDL C < 40
  - 2 Age 20:
  - non-HDL C > 275 or HDL C < 40

**HIGH-LEVEL RISK FACTORS (RF)**
- BMI > 95th percentile
- Hypertension requiring drug therapy
- Current cigarette smoker
- Diabetes mellitus – Type 1 and Type 2
- Chronic kidney disease
- Post-transplant heart transplant
- Kawasaki disease with current aneurysms

**MODERATE-LEVEL RISK FACTORS (RF)**
- BMI > 90th percentile
- Hypertension not requiring drug therapy
- HDL C < 40 mg/dl
- Kawasaki disease with regressed coronary aneurysms
- Chronic inflammatory disease (SLE, RA)
- HIV infection
- Nephrotic syndrome

**SCREENING, EVALUATION & MANAGEMENT**

- LDL-C > 190
- LDL-C 110-190 (BORDERLINE)
- LDL-C < 110 (ACCEPTABLE)

- Age < 10 yrs: TG < 75
- Age > 10 yrs: TG < 90

- Age < 10 yrs: TG 75-99
- Age > 10 yrs: TG 90-129 (BORDERLINE)

- Age < 10 yrs: TG > 100
- Age > 10 yrs: TG > 130

**OBTAIN FASTING LIPID PANEL (FLP)**

- LDL-C ≥ 190
- LDL-C 160-190
- LDL-C 130-160

- Family Hx
- > 1 high-level RF OR > 2 medium-level RFs
- 2 high-level RFs OR 1 high-level PLUS 3 medium-level RFs

**REACH TO CT CHILDREN'S LIPID CENTER**

- Nutrition referral for weight loss
- FLP in 6 months

**REPEAT FLP**

- LDL-C ≥ 190
- LDL-C 160-190
- LDL-C 130-160

**REPEAT FLP**

- TG ≥ 500
- Age < 10 yrs: TG 100-299
- Age ≥ 10 yrs: TG 130-299

**REPEAT TG**

- No
- Yes

**Repeat FLP (LDL ≤ 130)**
- Follow CHILD-1 DTH
- See Appendix B

**Repeat FLP (LDL > 130)**
- Continue CHILD-2 DTH
- Repeat FLP in 6 months

**Repeat FLP (LDL > 130)**
- Intensive CHILD-2 DTH with nutrition
- If overweight, facilitate weight loss
- Repeat FLP in 6 months

**Repeat FLP (LDL > 130)**
- Intensive CHILD-2 DTH
- Repeat FLP in 6 months

**If prefer to initiate statin or trig-lowering treatment, See Appendix C**

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