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# Top Take-Home Messages for Pediatric Clinicians

Adapted from: 2026 ACC/AHA/AACVPR/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA  
Guideline on the Management of Dyslipidemia

Developed by Sarah D. de Ferranti, MD, MPH, FAHA, Guideline Writing Committee Member

## 1. **Promote lifelong heart-healthy behaviors starting in early childhood to lower cholesterol and improve cardiovascular health**

Support your patients in consuming a healthy diet (emphasizing fruits, vegetables, nuts, legumes, whole grains, fiber, and monounsaturated or polyunsaturated fats), getting regular physical activity, achieving a healthy weight, avoiding nicotine exposure, getting the right amount of good quality sleep, and managing stress from early childhood through adulthood to reduce dyslipidemia and atherosclerotic cardiovascular disease (ASCVD) risk (*Section 4.1.1*).

## 2. **Screen all children and adolescents to identify lipid disorders such as familial hypercholesterolemia**

Children aged 9–11 years not previously screened should have a lipid profile to identify familial hypercholesterolemia (FH) and other significant lipid disorders. Screening is recommended again at age 19 years and then at least every 5 years thereafter (*Section 3.1*).

## 3. **Children with a concerning family history can be screened for FH as early as age 2 years**

It is reasonable for children with a first- or second-degree relative with premature ASCVD, severe hypercholesterolemia, or FH to be screened for lipid disorders starting at age  $\geq 2$  years (cascade screening) (*Section 3.1*).

#### 4. **Nonfasting lipid levels are generally sufficient for lipid screening**

Children and adolescents can be screened nonfasting; fasting is reserved for elevated triglycerides (TG  $\geq$ 400 mg/dL), suspected disorders of triglyceride metabolism, or strong family history of hyperlipidemia. Non-high-density lipoprotein-cholesterol, or non-HDL-C (calculated as total cholesterol minus HDL-C) is reliable, whether fasting or not, and is a good reflection of lipid-related ASCVD risk. Routine advanced lipoprotein testing is not recommended in childhood (*Section 3.2*).

#### 5. **Consider genetic testing for FH**

Testing children with suspected FH using an FH genetic panel can be useful to confirm the diagnosis, guide cascade screening, and inform treatment (*Section 4.2.8.1*).

#### 6. **The foundational treatment for pediatric dyslipidemias is lifestyle management**

Lifestyle management is recommended for all children and adolescents with lipid abnormalities to improve low-density lipoprotein-cholesterol (LDL-C), TG, and non-HDL-C (*Section 4.2.8.1*).

#### 7. **Lipid-lowering therapy is recommended for children and adolescents with familial hypercholesterolemia**

Randomized controlled trials of statin use in children show significant LDL-C lowering with good short- and medium-term safety. In children aged  $\geq$ 8 years with LDL-C  $\geq$ 160 mg/dL and a presentation consistent with FH, statin therapy is recommended if 3–6 months of lifestyle therapy does not sufficiently lower LDL-C (*Sections 4.2.8.1 and 4.2.4.4*).

#### 8. **Refer to a pediatric lipid specialist if homozygous FH (HoFH) is suspected, as there may be coronary obstruction in childhood**

Most children with lipid disorders can be treated with lifestyle modification, and sometimes statins. However, individuals with HoFH can have significant heart disease in early childhood and require evaluation by a pediatric cardiologist and an experienced lipid specialist for aggressive lipid-lowering therapy at diagnosis. Individuals with severe or monogenic lipid disorders may similarly benefit from expert input (*Sections 4.2.3 [Table 9], 4.2.8.1, and 4.2.4.4*).