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# Top Take-Home Messages for Clinicians: Using PREVENT-ASCVD Equations for Risk-Based Lipid Management

Adapted from: 2026 ACC/AHA Guideline on the Management of Dyslipidemia

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## 1. Use the PREVENT-ASCVD equations as a first step in contemporary ASCVD risk assessment

The 2026 Dyslipidemia Guideline now recommends a new approach to atherosclerotic cardiovascular disease (ASCVD) risk assessment with the PREVENT-ASCVD equations. The PREVENT-ASCVD equations replace the prior Pooled Cohort Equations with more accurate and contemporary risk estimates for ASCVD, which include fatal and non-fatal myocardial infarction and stroke (Section 4.2.3.2).

## 2. Apply the PREVENT-ASCVD equations in appropriate primary prevention populations

The PREVENT-ASCVD equations are recommended in adults without known ASCVD or subclinical atherosclerosis and with LDL-C 70–189 mg/dL to calculate 10-year risk in those aged 30–79 years and 30-year risk in those aged 30–59 years (Section 4.2.3.2).

## 3. Initiate lipid-lowering therapy based on new, lower PREVENT-ASCVD risk thresholds

The guideline recommends new risk thresholds for initiation of lipid-lowering therapy (LLT), in addition to health behavior recommendations, according to 10-year or 30-year risk with the PREVENT-ASCVD equations. With more accurate risk estimates, LLT is recommended for adults with a 10-year ASCVD risk  $\geq 5\%$  (intermediate or high risk) and is reasonable for those with a 10-year ASCVD risk of 3% to  $< 5\%$  (borderline risk) after clinician–patient discussion. In selected adults aged 30–59 years at low 10-year ASCVD risk ( $< 3\%$ ) but with LDL-C 160–189 mg/dL or 30-year ASCVD risk  $\geq 10\%$ , statin therapy is reasonable (See summary table below and Section 4.2.3.2).

**4. Select moderate- or high-intensity lipid-lowering therapy according to PREVENT-ASCVD risk category**

In adults aged 30–79 years with LDL-C 70–189 mg/dL and no history of ASCVD, statin intensity should align with PREVENT-ASCVD risk. A moderate-intensity statin is reasonable for those at borderline (3% to <5%) ASCVD risk and in selected younger adults at low (<3%) 10-year ASCVD risk but with LDL-C 160–189 mg/dL or high 30-year ASCVD risk ( $\geq 10\%$ ). At least a moderate-intensity statin is recommended for intermediate 10-year ASCVD risk (5% to <10%), and a high-intensity statin is recommended for high 10-year ASCVD risk ( $\geq 10\%$ ). For LDL-C  $\geq 190$  mg/dL, maximally tolerated statin therapy is recommended regardless of estimated risk (See summary table below and Section 4.2.3.7).

**5. Guide intensification of lipid-lowering therapy according to LDL-C goals and PREVENT-ASCVD risk**

Intensification of LLT should be guided by ASCVD risk and the degree of LDL-C lowering achieved. Adults at borderline or intermediate risk should achieve a 30% to 49% LDL-C reduction, with consideration of greater LDL-C lowering at the higher end of the intermediate risk range. Adults at high risk should achieve at least a 50% LDL-C reduction, with additional LDL-C lowering as needed to reach guideline-recommended goals. If LDL-C goals are not achieved on maximally tolerated statin therapy in adults who are at high risk, adding ezetimibe and, when appropriate, a PCSK9 inhibitor or bempedoic acid is reasonable (See summary table below and Section 4.2.3.7).

**6. Incorporate the PREVENT-ASCVD equations into holistic risk assessment using the “CPR” framework**

Use the Calculate–Personalize–Reclassify (CPR) model: Calculate 10-year ASCVD risk with PREVENT; Personalize risk by considering factors not included in the equations (risk enhancers, reproductive history, long-term LDL exposure); Reclassify when needed using coronary artery calcium (CAC), especially in adults with borderline (3% to <5%) or intermediate (5% to <10%) risk. Explain risk in absolute terms and use shared decision-making tools to support patient understanding (Section 4.2.3.2).

**7. Calculate 30-year PREVENT-ASCVD risk estimates to refine prevention strategies when indicated**

In adults aged 30–59 years with low (<3%) 10-year ASCVD risk, use the 30-year ASCVD risk to inform management decisions. If LDL-C is <160 mg/dL and the 30-year ASCVD risk is <10%, emphasize counseling on health behaviors to reduce LDL-C and ASCVD risk. If LDL-C is 160–189 mg/dL or the 30-year ASCVD risk is  $\geq$ 10%, initiating a moderate-intensity statin is reasonable to reduce cumulative exposure to atherogenic lipoproteins (Section 4.2.3.7).

**8. Consider risk enhancers to refine PREVENT-ASCVD risk estimates and personalize treatment decisions**

In adults who are at borderline (3% to <5%) risk, consider additional factors that may increase ASCVD risk, including family history of premature ASCVD, chronic inflammatory diseases, persistently elevated triglycerides, elevated lipoprotein(a) [Lp(a)] or high-sensitivity C-reactive protein (hsCRP), and female-specific risk markers (e.g., preeclampsia, premature menopause). These help personalize treatment decisions and may support earlier or more intensive therapy (Section 4.2.3.3).

**9. Consider coronary artery calcium (CAC) scoring to refine PREVENT-ASCVD risk estimates when treatment decisions are uncertain**

If the decision about LLT is uncertain, use CAC to refine risk. Also consider incidental CAC identified on noncardiac computed tomography (CT) scans when deciding whether to start or intensify LLT; and in selected higher-risk groups (e.g., HIV, Type 1 or Type 2 diabetes, inflammatory disorders), selective coronary computed tomography angiography (CCTA) may help inform treatment intensity (Section 4.2.3.6).

## 10. Recognize key populations at higher ASCVD risk

In adults 40 years of age and older with Type 1 or Type 2 diabetes, chronic kidney disease stage 3 or higher, or HIV, lipid-lowering therapy has demonstrated benefit even at lower absolute ASCVD risk. However, risk varies across these groups, and those at higher estimated risk are more likely to benefit from higher-intensity LLT. The PREVENT-ASCVD equations are recommended to help identify people in these subgroups who may benefit from more intensive LLT (Sections 4.2.5, 4.2.8.8, and 4.2.8.9).

**Summary Table: Risk-Based Management of Dyslipidemia with the PREVENT-ASCVD Equations**

Risk Category	PREVENT-ASCVD 10-Year Risk Estimate	Lipid-Lowering Therapy	Statin Intensity	LDL-C Reduction Goal
Low	<3%	Emphasize lifestyle; statin is reasonable if LDL-C is 160–189 mg/dL or 30-year risk $\geq$ 10% (ages 30–59).	Moderate intensity	
Borderline	3% to <5%	Consider statin after clinician–patient discussion and assessment of risk enhancers.	Moderate intensity	$\geq$ 30% to 49% LDL-C reduction; LDL-C <100 mg/dL and non-HDL-C <130 mg/dL
Intermediate	5% to <10%	Initiate statin therapy.	At least moderate intensity; high intensity is beneficial in the higher end of this risk range	$\geq$ 30% to 49% LDL-C reduction; $\geq$ 50% LDL-C reduction is beneficial in the higher end of this risk range; LDL-C <100 mg/dL and non-HDL-C <130 mg/dL
High	$\geq$ 10%	Initiate statin therapy.	High intensity	$\geq$ 50% LDL-C reduction; LDL-C <70 mg/dL and non-HDL-C <100 mg/dL