

## Lipid Screening and Management

The following guideline recommends risk assessment, stratification, education, counseling and pharmacological interventions for the management of low-density lipoprotein cholesterol (LDL-C).

Eligible Population	Key Components	Recommendation and Level of Evidence		
Males ≥ 35 years of age	Risk Assessment	Screening: Initial fasting lipid profile (i.e., total, LDL-C, HDL-C, triglycerides); If in normal range, repeat at least every 5 years. <b>[D]</b> For adults at increased risk (e.g., diabetes, family history of elevated lipids or premature ASCVD), repeat annually <sup>2</sup>		
		Treatment is based on presence of clinical atherosclerotic cardiovascular disease (ASCVD), and ASCVD risk factors. [A]		
Females ≥ 45 years		Clinical ASCVD:	ASCVD Risk Factors:	
of age		TIA, Stroke	LDL-C ≥ 190 mg/dL and age ≥ 20, not caused by drugs or	
•		Angina, MI	underlying medical condition	
Males and Females		Acute Coronary Syndrome	Diabetes mellitus type 1 or 2, age 40-75 years of age with	
age ≥ 20 years of age		Peripheral arterial disease, aortic aneurysm	LDL-C 70-189 mg/dL	
if risk factors		Revascularization procedure	10-year ASCVD risk ≥ 7.5% for ages 40-75 years	
	Risk Stratification	Calculate¹ 10-year ASCVD risk for patients 40-75 years of age without clinical ASCVD, diabetes mellitus (type 1 or 2) or LDL-C ≥ 190 mg/dL [D]		
		Statin treatment benefit group	Statin dosing intensity <sup>1</sup>	
		Clinical ASCVD: Age ≤ 75 years	High-intensity [A]	
		In very high risk ASCVD (multiple events or 1 main event and	riigir interioriy [-1]	
		multiple risk factors), if LDL-C remains ≥ 70 mg/dL, consider		
		addition of ezetimibe to statin		
		Clinical ASCVD: Age > 75 years	Moderate-intensity [D]	
		LDL-C ≥ 190 mg/dL, age ≥ 21 years	High-intensity [A]	
		If LDL-C remains ≥ 100 mg/dL, consider addition of ezetimibe	3 4 7 1	
		to statin		
		Diabetes mellitus (type 1 or 2) and age 40-75 years with	Moderate-intensity [A], can consider high-intensity if 10-year ASCVD	
		LDL-C 70-189 mg/dL	risk ≥ 7.5% <b>[D]</b>	
		10-year ASCVD risk ≥ 7.5% and age 40-75 years	Moderate-to-high intensity [A]	
	Education and risk	Promote a healthy lifestyle throughout life. Discuss sleep hygiene,	stress management, and fostering healthy relationships at every visit.	
	factor modification	f indicated: smoking cessation, reduce excessive alcohol [A]		
		Recommend a dietary pattern that emphasizes intake of vegetables, fruits, and whole grains; includes low-fat dairy products, poultry, fish,		
		legumes, non-tropical vegetable oils and nuts; and limits intake of sweets, sugar-sweetened beverages and red meats [A]		
		Engage in at least 150 minutes per week of accumulated moderate-intensity physical activity or 75 minutes per week of vigorous-intensity [B]		
	Pharmacologic	Women of childbearing age who are treated with statins should be counseled to use a reliable form of contraception and to stop the statin 1-2		
	interventions	months before pregnancy is attempted.		
		Assess adherence and LDL-C percentage response to therapy with repeat lipid measurement 4-12 weeks after statin initiation or dose adjustment.		
		Obtain baseline ALT. If normal, no routine monitoring for patients on statin therapy is required. LFT at physician discretion for		
		patients with abnormal baseline ALT, liver disease or risk factors.		
	For prolonged myalgias, consider dosage reduction or statin change. Check creatine kinase (CK) only if symptomatic muscle			
		aches/weakness.		
		For patient > 75 years, statin use should be at patient/physician discretion.		
		If statins not tolerated, consider alternate medical therapy including ezetimibe or PCSK9 inhibitor. Consider bempedoic acid or iconsider to a second of the station of the		
	0:11: (1.5: 5	select patients. Refer to a specialist if needed	pgy/American Heart Association Task Force on Clinical Practice Guidelines   Circulation	

<sup>&</sup>lt;sup>1</sup>ACC/AHA <u>2019 ACC/AHA Guideline on the Primary Prevention of Cardiovascular Disease: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines | Circulation 

<sup>2</sup> LDL cholesterol management simplified in adults-Lower for longer is better: Guidance from the National Lipid Association 

<sup>3</sup> LDL Management Simplified</u>

Levels of Evidence for the most significant recommendations: A = randomized controlled trials; B = controlled trials, no randomization; C = observational studies; D = opinion of expert panel

This guideline represents core management steps. It is based on Grundy SM, et.al. 2018 AHA/ACC/AACVPR/AAPA/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA guideline on the management of blood cholesterol: executive summary: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. Circulation. 2019; 139:e1046-e1081. and based on Arnett DK, et.al., 2019 ACC/AHA guideline on the primary prevention of cardiovascular disease: executive summary: a

report of the American College of Cardiology/American Heart Association Task Force on Clinic Practice Guidelines. Circulation. 2019; 140:e563-e595. Individual patient considerations and advances in medical science may supersede or modify these recommendations.