



Fairfield
Medical Center

Cardiovascular Risk Factor Management

Steven Mould, MD
FHP Cardiology

Disclosures

- None



Objectives

- To review hypertension thresholds, lifestyle modification options and pharmacotherapy
- To discuss cholesterol goals for primary prevention based on risk profile
- To evaluate treatment options for cholesterol control
- Treatment strategies for the statin intolerant





Hypertension

Hypertension – ACC 2017

Definitions & Blood Pressure Categories

- Normal: $<120/<80$ mmHg
- Elevated: $120\text{--}129/<80$ mmHg
- Stage 1 Hypertension: $130\text{--}139$ or $80\text{--}89$ mmHg
- Stage 2 Hypertension: ≥ 140 or ≥ 90 mm



Hypertension – How do we check?

Out-of-office BP monitoring (home BP monitoring or ambulatory BP monitoring) is increasingly recommended to confirm diagnosis and better assess true BP than single clinic readings.



Hypertension – Lifestyle Management

- Diet
 - DASH eating plan
 - Reduced sodium intake
- Physical activity
- Weight loss
- Alcohol moderation
- Smoking cessation
- Stress and sleep management



Hypertension – Pharmacologic Treatment

- Treatment goals
 - Common target: <130/80 mmHg
 - PREVENT Score (replacing ASCVD score)
 - Individualization for elderly/complex cases
- First-line medications
 - Thiazide diuretics
 - ACE inhibitors / ARBs
 - Calcium channel blockers
- Use of combination therapy (fixed-dose preferred)
- Reassessment for resistant hypertension



Hypertension – The Take Away

Early and aggressive BP control
Lifestyle modification is foundational
Individualized treatment approach
Home BP monitoring is invaluable





Lipid Management

Lipids – Old Guidelines

2018 AHA/ACC Guideline on the Management of Blood Cholesterol

- Goal LDL < 70 mg/dl for secondary prevention
 - Consider non-statin therapy if on maximally tolerated statin
- Step-wise approach to therapy
 - Ezetimibe as first additional non-statin
 - PCSK9 inhibitor after Ezetimibe
- Primary prevention patients with borderline or intermediate risk should have risk benefit discussion
- Consider coronary artery calcium (CAC) for non-diabetic ASCVD 7.5% - 20% if uncertain about statin therapy



Lipids – Newer Guidance

2022 ACC Expert Consensus Decision Pathway

- Goal LDL < 55 mg/dL in “very high” risk groups and secondary prevention
- Goal LDL < 70 mg/dL for not “very high” risk groups and secondary prevention
- Goal LDL < 70 mg/dL for primary prevention, diabetes, and ASCVD risk > 7.5%
- Goal LDL < 100 mg/dL for primary prevention, diabetes, and ASCVD risk < 7.5%
- Earlier initiation of combination therapy
- Use of ezetimibe in high-risk primary prevention
- Use of PCSK9 in very high-risk primary prevention
- Guidelines for statin intolerance management





Lipid Management Secondary Prevention

Lipids

2022 ACC Expert Consensus Decision Pathway

- Goal LDL < 55 mg/dL in “very high” risk groups and secondary prevention
- Very High Risk is 1 major and 2 High-Risk
- If you don’t meet this criteria, then goal is < 70 mg/dL

TABLE 1

Criteria for Defining Patients at Very High Risk* of Future ASCVD Events

Major ASCVD Events

Recent ACS (within the past 12 months)

History of MI (other than recent ACS event listed above)

History of ischemic stroke

Symptomatic PAD (history of claudication with ABI <0.85 or previous revascularization or amputation)

High-Risk Conditions

Age ≥65 years

Heterozygous familial hypercholesterolemia

History of prior coronary artery bypass surgery or percutaneous coronary intervention outside of the major ASCVD event(s)

Diabetes

Hypertension

CKD (eGFR 15-59 mL/min/1.73 m²)

Current smoking

Persistently elevated LDL-C (LDL-C ≥100 mg/dL [≥2.6 mmol/L]) despite maximally tolerated statin therapy and ezetimibe

History of congestive HF

*Very high risk includes a history of multiple major ASCVD events or 1 major ASCVD event and multiple high-risk conditions. Reprinted with permission from Grundy et al.⁷

ABI = ankle-brachial index; ACS = acute coronary syndrome; ASCVD = atherosclerotic cardiovascular disease; CKD = chronic kidney disease; eGFR = estimated glomerular filtration rate; HF = heart failure; LDL-C = low-density lipoprotein cholesterol; MI = myocardial infarction; PAD = peripheral artery disease



Lipid Management Primary Prevention

Lipid – Newer Guidance

- If LDL is >190 then be aggressive
- If you're 40 and have DM, you should be on a statin. But what is your LDL goal?

2022 ACC Expert Consensus Decision Pathway

- Goal LDL <70 mg/dL for primary prevention, diabetes, and ASCVD risk >7.5%
- Goal LDL <100 mg/dL for primary prevention, diabetes, and ASCVD risk <7.5%

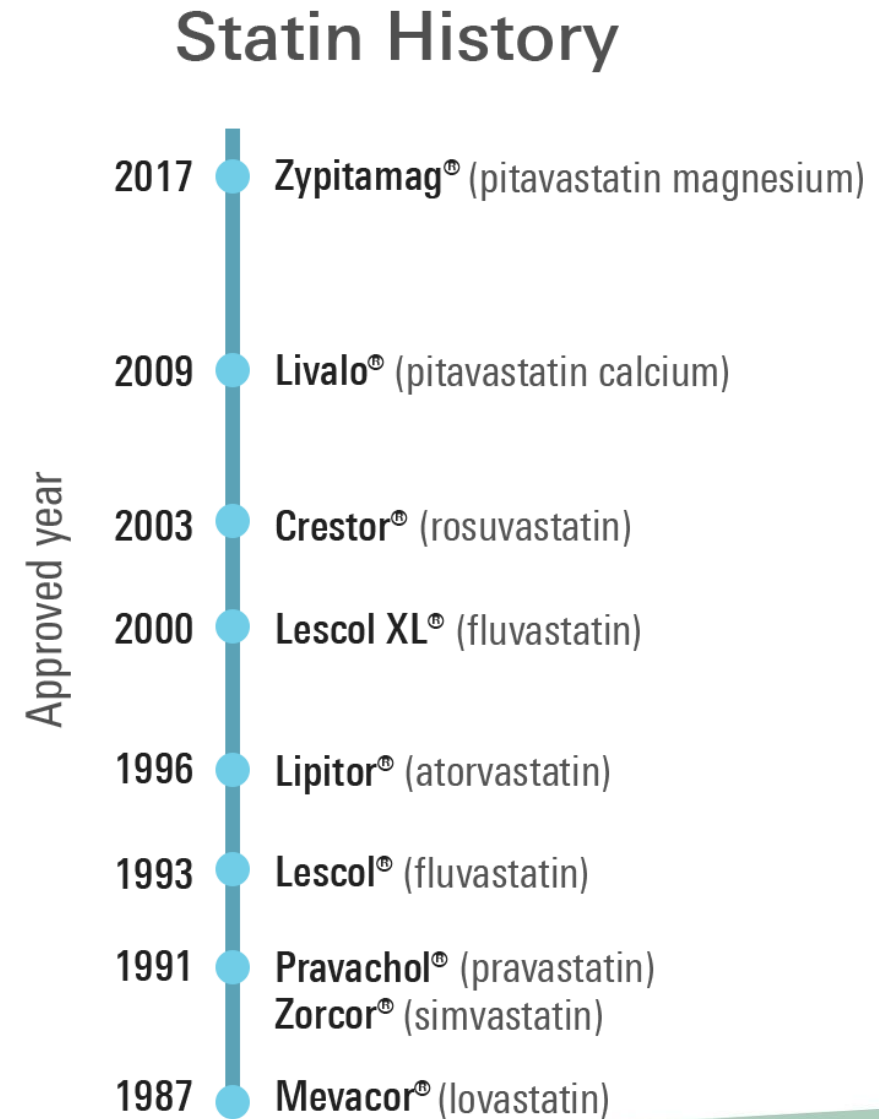




Lipid Management: How do we get there?

First Line – Still Statins

- **Affordable, effective**
- **Expect a 50% reduction in LDL when starting high intensity**
- **Reduced benefit from max dose statin**



Second Line - Ezetimibe/Zetia

- Affordable
- Zetia alone ~18% reduction in LDL
- Zetia + Statin: ~25% reduction in LDL

ezetimibe 10mg
30 tablets at Costco



\$13.33

BIN 015995

PCN GDC

Group DR33

Member ID DDJ752803

GoodRx Coupon • Last updated May 6



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Third Line – PCSK9

Insurance can be a pain

- Statin + Zetia and not at goal
- If statin intolerant, want to see intolerance of 2 statins at low doses

Injection every 2 weeks

- Comes from specialty pharmacy

Can expect a 50% reduction in LDL

Mortality benefit

Praluent

1 carton 2 pens of 75mg/ml



\$480.15

BIN	015995
PCN	GDC
Group	DR33
Member ID	DHJ876697

GoodRx Coupon • Last updated May 6

Repatha

2 sureclicks 1ml of 140mg/ml



\$536.65

BIN	015995
PCN	GDC
Group	DR33
Member ID	DHJ877468

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But there's more!

The Others

- Bempedoic acid
- Incliseran
- Evinacumab
- Lomitapide

Nexletol
30 tablets 180mg



\$388.03

BIN	015995
PCN	GDC
Group	DR33
Member ID	DHJ891825

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Statin Intolerance

Strategies for Statin Intolerance

Option 1

- Start Crestor/Rosuvastatin 2.5 mg one day out of the week.
- After 2 weeks, have them take it two days out of the week.
- Continue to increase frequently every two weeks. Escalate as tolerated.
Decrease frequency if intolerance develops

Option 2

- Zetia and then likely PCSK9





Thank you