

Case 1. **High-risk CVD** **<70** mg/dL



Age **55 years**
BMI **28.2 kg/m²**
Diabetic **No**
Smoker **No**
Family history **Brother with FH and recent MI**

Hypertensive before ACEi treatment **Yes, BP 138/94**
Receiving **Perindopril 4 mg**

Lipid profile and current treatments

Jun 2019: LDL-C 197, TG 197 no Rx
Dec 2019: LDL-C 174 dietary changes only
Mar 2020: LDL-C 81 on rosuvastatin 20 mg

Therapeutic options

Increase statin to 40 mg/day
Predicted 6% drop to achieved LDL-C of 73;
>50% LDL-C reduction from baseline

Add ezetimibe to statin
Predicted 20% drop to achieved LDL-C of 68

Case 2. **Very high-risk CVD** **<55** mg/dL



Age **58 years**
BMI **33.8 kg/m²**
Diabetic **Yes, type 2**
Smoker **No**

Hypertensive before ACEi treatment **Yes, BP 148/98**
Receiving **Metformin 1000 mg and ramipril 5 mg**

Presents with stable angina; significant disseminate disease in LAD and RCA on coronary CT imaging

Lipid profile and current treatments

Predicted baseline: LDL-C 155
Jan 2019: LDL-C 93, TG 177 on atorvastatin 20 mg
Mar 2020: LDL-C 85, TG 168 on atorvastatin 40 mg (intolerant of higher dose)

Therapeutic options

Add ezetimibe to statin
Predicted 20% reduction to achieved LDL-C of 70; >50% LDL-C reduction from baseline

Add PCSK9i to statin
Predicted 60% drop to achieved LDL-C of 35

Case 3. **Very high-risk CVD** **<40** mg/dL

multiple previous events



Age **62 years**
BMI **29.5 kg/m²**
Diabetic **No**

Hypertensive before ACEi treatment **Yes, BP 138/87**
Receiving **Lisinopril 20 mg and amlodipine 5 mg**

Jan 2017: positive stress ECG; >50% stenosis in LAD and CFX; angioplasty + stent

Mar 2019: NSTEMI; successful PCI with further stent in LAD

Lipid profile and current treatments

Predicted baseline: LDL-C 190
Mar 2017: LDL-C 116, TG 213 on atorvastatin 20 mg
Jul 2019: LDL-C 73, TG 151 on atorvastatin 80 mg

Therapeutic options

Add ezetimibe to statin
Predicted 20% reduction to achieved LDL-C of 58; >50% LDL-C reduction from baseline

Add PCSK9i to statin
Predicted 60% drop to achieved LDL-C of 35