



Arterial Ultrasound Testing to Predict
Atherosclerotic Cardiovascular Events:
The Cyprus Atherosclerosis Study

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How can the presence of an Ax carotid stenosis
(ACS) or common femoral artery stenosis on
ultrasonography trigger treatment of dyslipidemia?

• Check if the patient has already an established atherosclerotic disease, e.g.
LEAD requiring Tx of dyslipidemia.

• Often guidelines are ignored or interpreted differently across the various specialties.

• Great opportunity to review implementation of BMT.

• Isolated, subclinical atherosclerosis?

What is the current trial evidence to treat dyslipidemia in a patient with an isolated ACS? NONE — THERE IS NO RCT!

The Society for Vascular Surgery implementation document for management of extracranial cerebrovascular disease

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European Society for Vascular Surgery (ESVS) 2023 Clinical Practice

Guidelines on the Management of Atherosclerotic Carotid and Vertebral

Artery Disease\*

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Recommendation 13

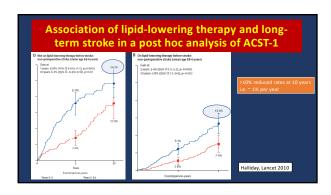
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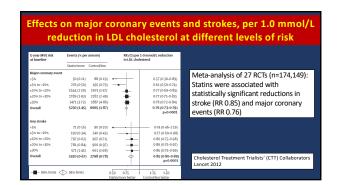
For patients with asymptomatic carotid stenosis, lipid lowering therapy with statins (with or without ezetimibe) is recommended for the long-term prevention of stroke, myocardial infarction, and other cardiovascular events.

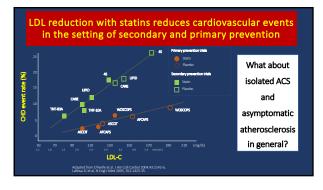
Class Level References ToE

I B Zhan et al. (2018)<sup>111</sup>, Halliday et al. (2010)<sup>228</sup>, Cholesterol Treatment Trialists Collaboration (2012)<sup>229</sup>

## Where does this evidence derive from? Observational in nature Extrapolation from similar patient populations Not all outcomes (e.g. stroke, MI, etc) have been reported







LDL target for Ax patients

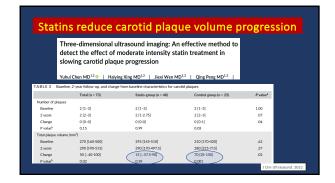
At present, evidence is lacking to support specific LDL-C targets in ACS patients (2023 ESVS GLs)

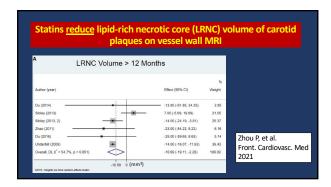
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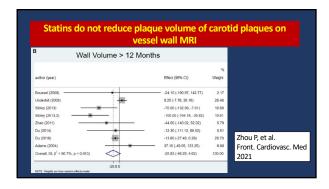
2017 ESC Guidelines on the Diagnosis and Treatment of Peripheral Arterial Diseases. Eur Heart J, 2018

In patients with PADs, it is recommended to reduce LDL-C to < 1.8 mmol/L (70 mg/dL) or decrease it by ≥ 50% if baseline values are 1.8–3.5 mmol/L (70–135 mg/dL).<sup>25</sup>

PADs = peripheral arterial diseases.







## Conclusions Statins positively affect atherosclerotic plaque composition. Statins reduce cerebrovascular events in patients with ACS, based on OBSERVATIONAL data. Lipid lowering Tx (e.g. statins, PCSK9 inhibitors, inclisiran, etc) and LDL targets should be tested further by future RCTs in this setting.

