

# Conference over coffee: Lipids and blood pressure

The 18<sup>th</sup> National Conference of the Primary Care Diabetes Society took place in Birmingham on 23–24<sup>th</sup> November 2022. This short report covers two selected Masterclasses from the event, providing take-home messages on these essential aspects of diabetes care. Look out for part 2 (retinopathy, high HbA<sub>1c</sub>, and diet) in the next issue. Readers can also access the on-demand keynote presentations for free by [clicking here](#).

## Lipids lowdown

**Kevin Fernando** GP, North Berwick

**Hannah Beba** Consultant Pharmacist, West Yorkshire

- Every 1 mmol/L reduction in LDL-cholesterol results in an annual cardiovascular risk reduction of up to 28%, regardless of the intervention used.
- Growing evidence has driven down LDL-C targets over time; the [2019 ESC guideline](#) recommends <1.4 mmol/L and a >50% decrease from baseline for those at very high cardiovascular risk.
  - Combination lipid-lowering therapy should now be the norm to achieve these tighter LDL-C targets.
- If **statin intolerance**, consult the [NHS England pathway](#).
  - Risk factors include female gender, age >75 years, frailty, history of muscle disorders, impaired renal or hepatic function, personal or family history of intolerance to lipid-lowering therapies, hypothyroidism, excessive alcohol intake, high-intensity exercise, dehydration, vitamin D deficiency, statin drug interactions.
- Adding **ezetimibe** to statins achieves >20% additional reduction in LDL-C (doubling effective statin dose reduces LDL-C by around 6%).
- **Bempedoic acid (Nilemdo®)**: [NICE TA694](#) recommends use with ezetimibe where statins are not tolerated or contraindicated; licensed for use with statins and other lipid-lowering drugs.
  - Increases in AST, ALT, uric acid, urea and creatinine and decreased haemoglobin seen in trials – monitor U&Es, LFTs
  - Gout more common if elevated urate or previous gout at baseline.
- **Icosapent ethyl (Vaskepa®)**: [NICE TA805](#) recommends use for secondary prevention to decrease cardiovascular events if TGs are ≥1.7 mmol/L, statins are being used, and LDL levels are >1.04 and ≤2.60 mmol/L.
- **PCSK9 inhibitors (alirocumab, evolocumab)** – see [NICE TA393](#) and [NICE TA394](#):
  - Primary prevention: only if familial hyperlipidaemia and LDL-C >4.0 mmol/L.
  - Secondary prevention:
    - In high risk (single CVD event), if LDL-C >4.0 mmol/L.
    - In very high risk (multiple CVD events or events in different vascular beds), if LDL-C >3.5 mmol/L.
    - In familial hyperlipidaemia, if LDL-C >3.5 mmol/L.
- **Inclisiran (Leqvio®)**: [NICE TA733](#) recommends use for primary (heterozygous familial and non-familial) or mixed dyslipidaemia when LDL is ≥2.6 mmol/L persistently despite maximum tolerated lipid-lowering therapy.

**Resource:** [Lipids, cardiovascular risk and treatment targets factsheet](#)

## Diagnosis and management of hypertension in 2022

**Richard McManus** GP and Professor of Primary Care Research, Oxford

**Helen O'Neil** Lead Clinical Pharmacist, Sunderland

- One third of people on hypertension registers remain uncontrolled: 6–8 million people living with undiagnosed or uncontrolled high BP in England ([NHS Digital, 2020](#)).
- Reducing systolic blood BP by 10 mmHg reduces stroke risk by 36% and CHD events by 25% ([Law et al, 2009](#)). Diabetes increases absolute stroke and CHD risk, so amplifies risks of hypertension and benefits of treatment.
- Delays in follow-up and treatment intensification beyond 6 weeks increases cardiovascular events ([Xu et al, 2015](#)).
- Diagnose hypertension as for those without T2DM. **Treatment:**
  - Lifestyle advice (diet and exercise, alcohol, smoking cessation, salt and caffeine intake) reduces BP and CVD risk: **offer at diagnosis and periodically**.
  - ACE inhibitor (ARB if African–Caribbean or ACEi not tolerated).
  - Add CCB or thiazide diuretic.
  - ACEi/ARB, CCB and thiazide diuretic.
  - Resistant hypertension (uncontrolled on 3 treatments): add spironolactone; check potassium prior to commencing; regular potassium monitoring – higher risk of hyperkalaemia as on ACEi.
    - If potassium ≥4.5 mmol/L, consider alpha-blocker or cardioselective beta-blocker instead of spironolactone.
  - If BP remains elevated despite optimal dose of 4 drugs, refer for specialist advice.
- Same-day specialist review if severe hypertension (clinic BP ≥180/120 mmHg) with:
  - Retinal haemorrhage or papilloedema.
  - Accelerated or malignant hypertension.
  - Life-threatening symptoms.
  - New-onset confusion.
  - Chest pain, signs of heart failure.
  - Acute kidney injury.
  - Suspected pheochromocytoma.
- NICE targets (clinic BP):
  - Diabetes and no CKD: <140/90 mmHg (<150/90 mmHg if >80 years).
  - CKD and ACR <70 mg/mmol: <140/90 mmHg.
  - CKD and ACR ≥70 mg/mmol: <130/80 mmHg.
- Home monitoring is a good option for ongoing management ([McManus et al, 2018](#)).

**Resources:** ● [How to diagnose and treat hypertension in type 2 diabetes](#)  
● [Diabetes UK blood pressure Information Prescription](#)