# CVD risk identification & reduction in Primary Care

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# Primary Care Cardiovascular Society website



OME ABOUT US - NEWS STORIES PCCS ANNUAL CONFERENCE 2020

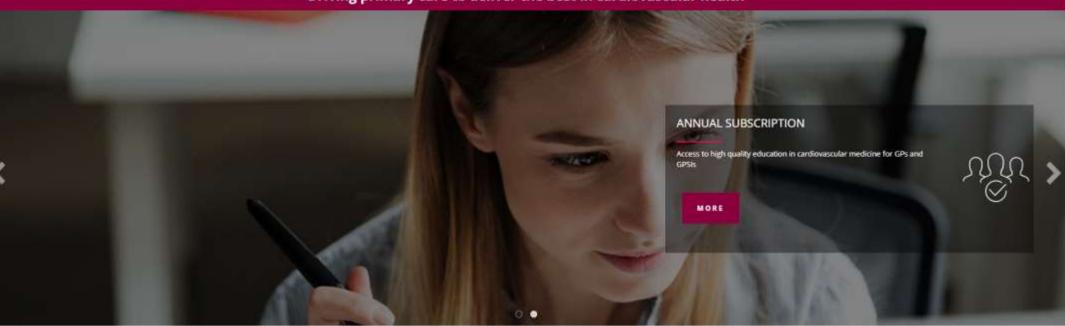
BECOME A MEMBER PCCS DIARY

PCCS DIARY GUIDELINES RESOURCES ASK THE EXPERT

SEMBER AREA

REGISTER/LOGIN

Driving primary care to deliver the best in cardiovascular health



### ANNUAL SUBSCRIPTION

GPs - £50
Pharmacists, GP Registrars and Nurses - £25

#### PCCS OBJECTIVES

- Represent primary care cardiovascular health needs at policy level
- » Promote best practice in primary care cardiovascular health through education, training and service development
- Support the development of primary health care professionals in cardiovascular medicine.
- » Facilitate and lead primary care cardiovascular research
- » influence commissioners for the next decade (or longer)

### How to register for Membership

### **Annual Subscription**

GPs £40

Pharmacists, GP Registrars and Nurses £20

### **How to Register**

To register for membership please follow this link <a href="http://pccs.lcwmed.co.uk">http://pccs.lcwmed.co.uk</a>

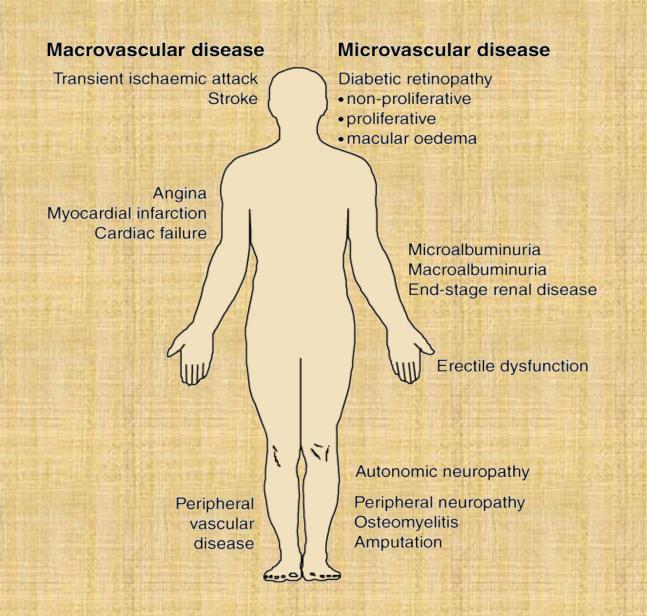
Or call 01444 414264
Or email registrations@LCWmed.co.uk

### Take aim!

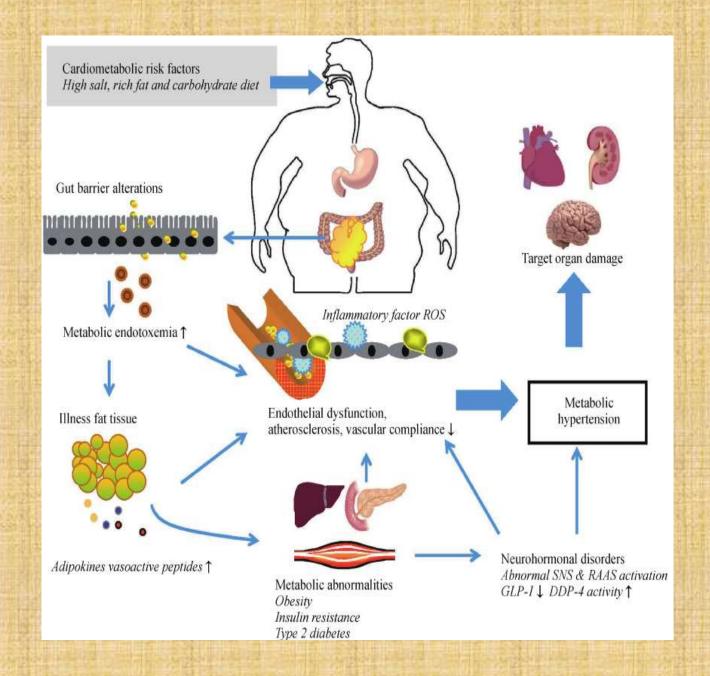
- Aims of the session:
- Recognise why people living with diabetes are at increased risk of vascular complications
- Evaluate a tailored approach to assessing and reducing risk
- Implement lifestyle interventions to reduce risk
- Assess the impact of medication in reducing vascular risk

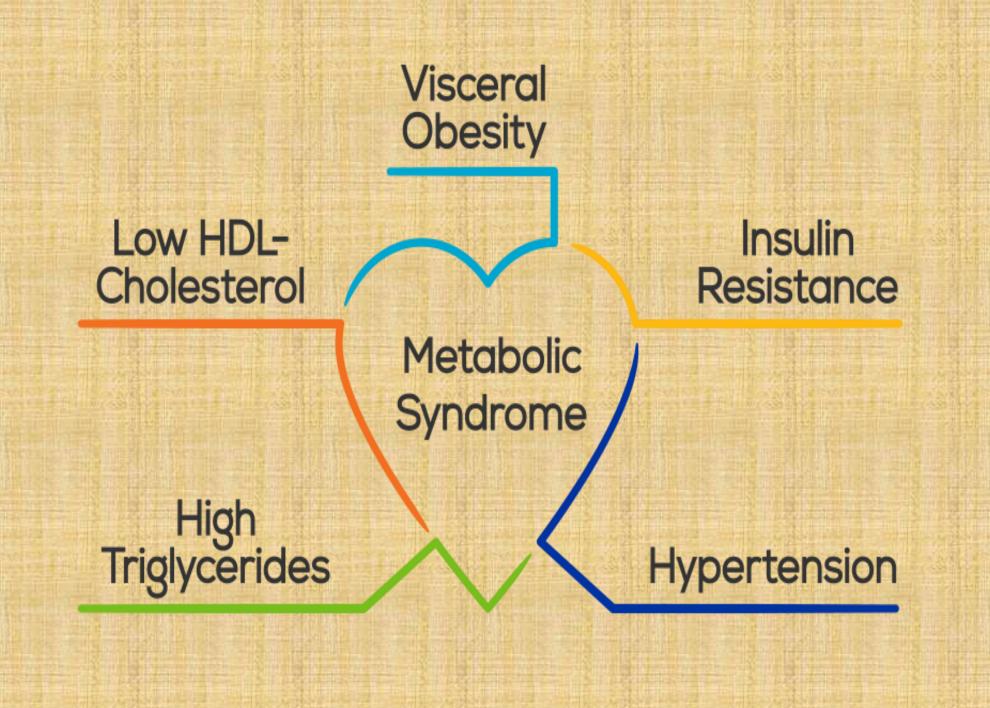


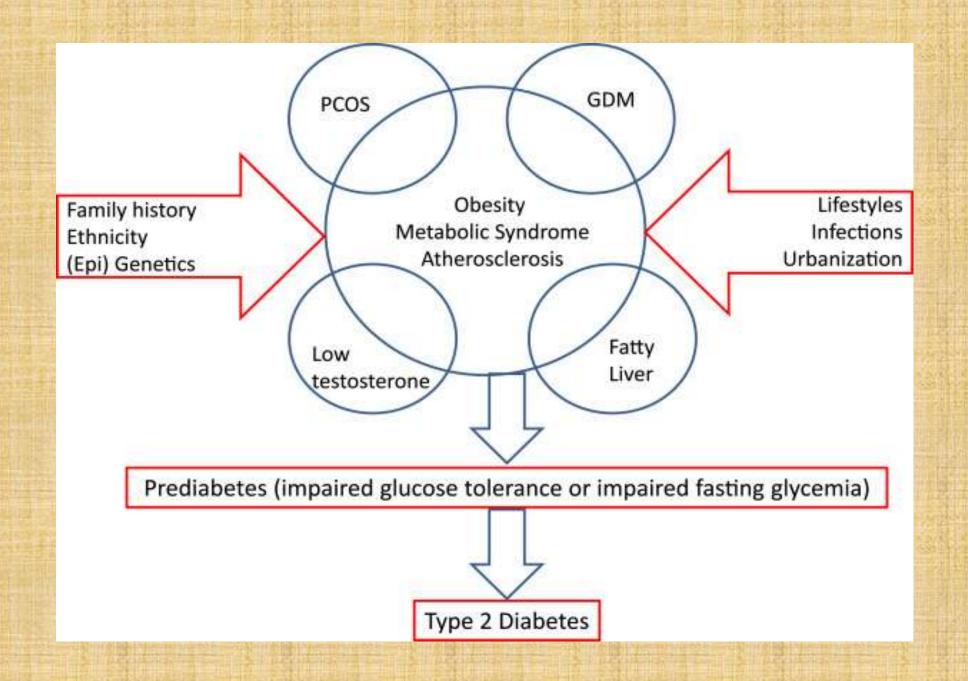
# What happens?

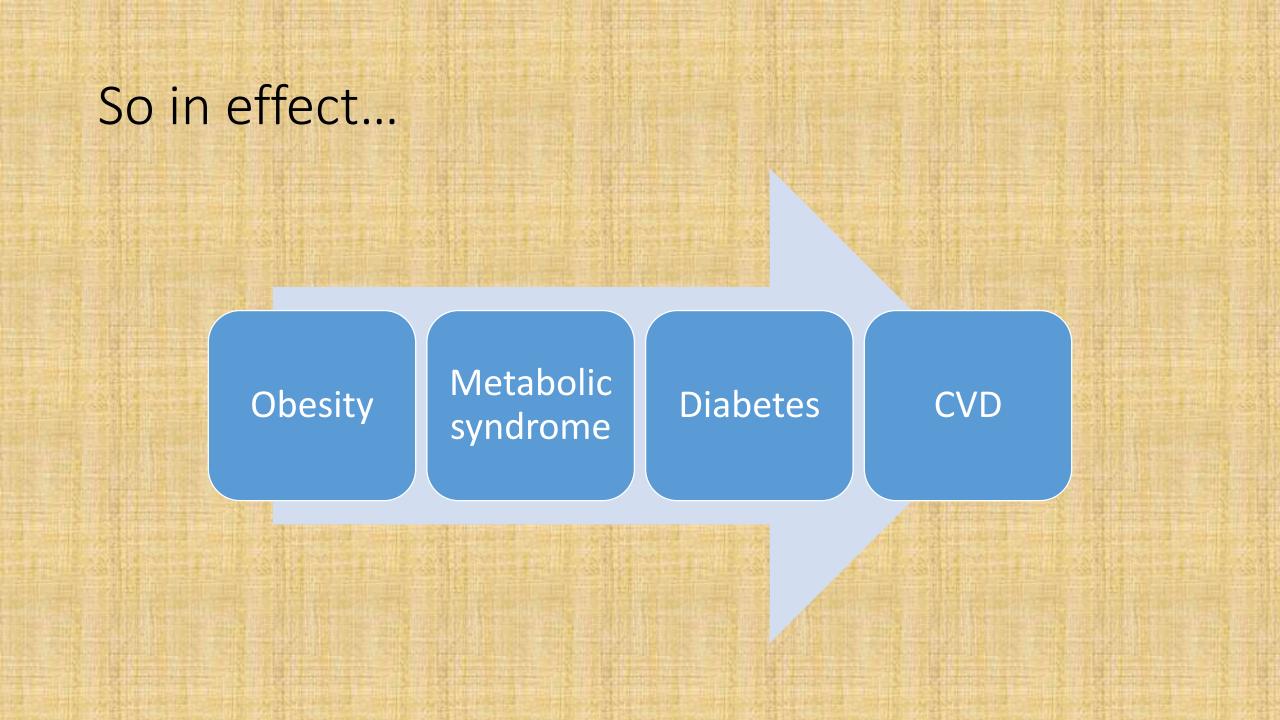


# Why?









Risk assessment: all for one?



Reset Copyright Algorithm	
About you  Age (25-84): 44  Sex: • Male • Female  Ethnicity: White or not stated • UK postcode: leave blank if unknown — Postcode:	Your results  Your risk of having a heart attack or stroke within the next 10 years is:  22.5%  In other words, in a crowd of 100 people with the same risk factors as you, 23 are likely to have a heart attack or stroke within the next 10 years.
Clinical information  Smoking status: Heavy smoker (20 or over)  Diabetes status: None  Angina or heart attack in a 1st degree relative (60?  Chronic kidney disease (stage 3, 4, or 5)?  Atrial fibrillation?  On blood pressure treatment?  Do you have migraines?  Rheumatoid arthritis?  Systemic lupus erythematosus (SLE)?  Severe mental illness?  On atypical antipsychotic medication?  Are you on regular steroid tablets?  A diagnosis of or treatment for erectile dysfunction?  Leave blank if unknown  Total cholesterol: HDL cholesterol ratio: 2  Systolic blood pressure (mm Hg): 132  Standard devlation of at least two most recent systolic blood pressure readings 10 (mm Hg):  Body mass index  Height (cm): 165  Weight (kg): 85	Risk of a heart attack or stroke  Your score has been calculated using estimated data, as some information was left blank.  Your body mass index was calculated as 31.22 kg/m³.

# Lifestyle



### Medication

Triple whammy:

Glycaemic control

• BP

Lipids



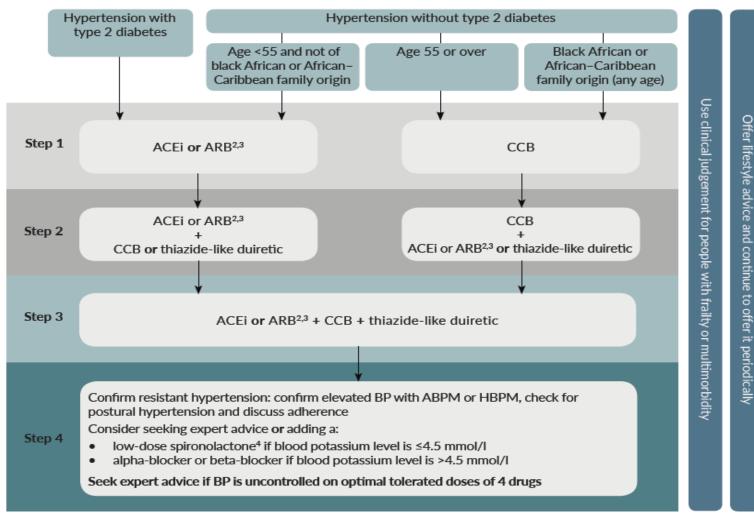
## Newer glycaemic agents – the great HOPE?

- SGLT2 inhibitors:
  - Lower plasma glucose & HBA1c
  - Induce moderate natriuresis
  - Reduce blood pressure and
  - Reduce weight and
  - Exert cardio-protective properties on the heart



• GLP1- RAs & CVD

### Choice of antihypertensive drug1, monitoring treatment and BP targets



<sup>&</sup>lt;sup>1</sup> For women considering pregnancy or who are pregnant or breastfeeding, see NICE's guideline on <u>hypertension in pregnancy</u>. For people with chronic kidney disease, see NICE's guideline on <u>chronic kidney disease</u>. For people with heart failure, see NICE's guideline on <u>chronic heart failure</u>

<sup>2</sup>See MHRA drug safety updates on <u>ACE inhibitors and angiotensin-II receptor antagonists: not for use in pregnancy</u>, which states 'Use in women who are planning pregnancy

should be avoided unless absolutely necessary, in which case the potential risks and benefits should be discussed', ACE inhibitors and angiotensin II receptor antagonists: use during breastfeeding and clarification: ACE inhibitors and angiotensin II receptor antagonists. See also NICE's guideline on hypertension in pregnancy.

Consider an ARB, in preference to an ACE inhibitor in adults of African and Caribbean family origin.

Monitoring treatment

Use clinic BP to monitor treatment.

Measure standing and sitting BP in people with:

- type 2 diabetes or
- · symptoms of postural hypotension or
- aged 80 and over.

Advise people who want to self-monitor to use HBPM. Provide training and advice.

Consider ABPM or HBPM, in addition to clinic BP, for people with white-coat effect or masked hypertension.

### **BP** targets

Reduce and maintain BP to the following targets:

#### Age <80 years:

- Clinic BP <140/90 mmHg</li>
- ABPM/HBPM <135/85 mmHg</li>

#### Age ≥80 years:

- Clinic BP <150/90 mmHg</li>
- ABPM/HBPM <145/85 mmHg</li>

### Postural hypotension:

· Base target on standing BP

### Frailty or multimorbidity:

Use clinical judgement



This visual summary builds on and updates previous work on treatment <u>published by the BIHS</u> (formerly BHS)

Abbreviations: ABPM, ambulatory blood pressure monitoring; ACEi, ACE inhibitor; ARB, angiotensin-II receptor blocker; BP, blood pressure; CCB, calcium-channel blocker; HBPM, home blood pressure monitoring

<sup>\*</sup>At the time of publication (August 2019), not all preparations of spironolactone have a UK marketing authorisation for this indication.

# Lipids



### In summary

- CVD risk is increased in populations of people living with diabetes
- Individual risk assessment remains important
- Treat multiple risk factors to reduce risk
- Treat to (individualised) targets
- Respect autonomy and balance beneficence and non-maleficence

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