Blood Pressure and Cholesterol

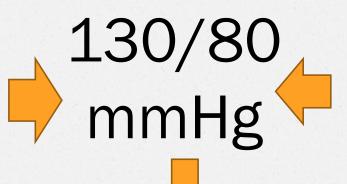
Hannah Beba and Patrick Holmes

@_diabetes101



Blood pressure is the force your heart needs to push blood around your body.

Systolic blood pressure is the force needed to push blood out of your heart



Diastolic blood pressure is the pressure when the heart is relaxed

Millimetres of mercury is the units of measurement

Tweet Poll

Targets for blood pressure are individualised, do you know your target blood pressure? Tell us about your experiences with this.

- yes
- no

What does it mean if I have high blood pressure?

If you have high blood pressure, your heart has to work harder to pump blood around your body



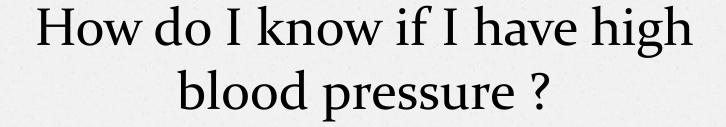




Tweet poll

How do you measure your blood pressure? Tell us about your experiences with this.

- Home blood pressure monitoring
- Clinic blood pressure monitoring
- Both



Mostly asymptomatic so it is REALLY important you monitoring your own blood pressure or you go for blood pressure checks





Things you might be able to control	Things you cannot
Salt intake	Age
Activity levels	Family history
Maintaining a healthy weight	Ethnicity
smoking	
Alcohol	
stress	
medications	

Tweet Poll

For those of you out there with high blood pressure what has worked for you?

- (a) Exercise
- (b) Dietary changes
- (c) Stopping smoking
- (d) Medications

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Common Medications used to treat hypertension in those living with diabetes

ACE 'angiotensin converting enzyme). Inhibitors	The names of these medicines commonly end in 'pril' (for example, lisinopril, perindopril and ramipril).
ARB (angiotensin receptor blocker)	The names of these medicines commonly end in 'artan' (for example, candesartan, losartan and valsartan).
CCB (calcium channel blocker)	The names of these medicines commonly end in 'dipine' (for example, amlodipine, felodipine and lacidipine).
Diuretics	Indapamide

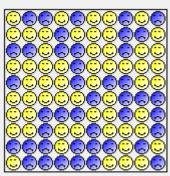
Tweet Poll

How many of you are taking the medications below for your blood pressure? Tell us about your experiences with your medications.

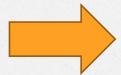
- (a) ACE inhibitors (e.g. ramipril)
- (b) ARBs (e.g. losartan)
- (c) Calcium Channel Blockers e.g. amlodipine
- (d) Diuretics



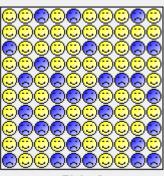
Mr BP, aged 75, non-smoker, type 2 diabetes has a blood pressure of 180/98mmHg. He makes some lifestyle changes and has additional medications added bringing his blood pressure to 130/80mmHg



Risk of a heart attack or stroke



If you treated 100 people like Mr BP, ten less people would have a heart attack or stroke over a 10 year period



Risk of a heart attack or stroke

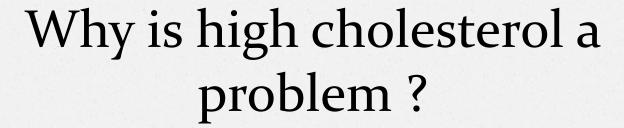


Cholesterol (lipids) is a type of fat in the blood.

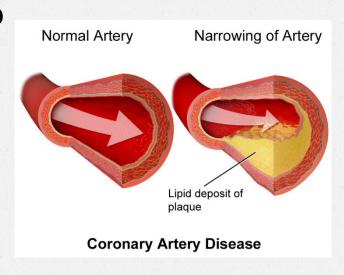
HDL (high-density lipoprotein) is good cholesterol which helps protect you from heart disease.

Both triglycerides and LDL (low-density lipoprotein) are bad for you





Fatty material can build up in the blood vessels supplying the brain and heart, making them narrower. This can lead to a blockage in blood vessels, which can cause a heart attack or stroke





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Activity levels	Age
Maintaining a healthy weight	Family history
smoking	Ethnicity
Alcohol	
medications	



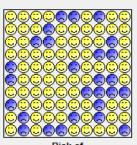
 Risk score – 10 year risk of having a heart attack or stroke

Your results

Your risk of having a heart attack or stroke within the next 10 years is:

27.1%

In other words, in a crowd of 100 people with the same risk factors as you, 27 are likely to have a heart attack or stroke within the next 10 years.



a heart attack or stroke

Twitter Poll

How many of you are taking the medications below for your cholesterol? Tell us about your experiences with your medications

- (a) Statins
- (b) Ezetimibe
- (c) PCSK9 (alirocumab or evolucumab)

Treatments

- Statins Atorvastatin, Rosuvastatin, pravastatin, simvastatin
- Ezetimibe
- PCSK9 inhibitors (injectable) therapies e.g. alircumab or – only for those with genetic changes which lead to high cholesterol e.g. familiar hypercholesterolemia or those who are at very high risk and may not tolerate statins

Statin Trouble Shooting

Some statins you can take at any time in the day where as others you have to take at night

Atorvatsatin and Rosuvastatin can be taken day or night

Simvastatin, Pravastatin and Fluvastatin should only be taken at night





Statin Troubleshooting

Some statin is better than none



Take statin once weekly



Take statin twice weekly (e.g. Monday and Friday)



Take statin three times weekly (e.g. Monday, Wednesday and Friday)



Take statin four times a week (e.g. alternate days)



Take statin five times a week (e.g. take on weekdays and rest on weekends)



Take statin six times a week (e.g. take every day except Sunday)



Take statin every day