

Nottinghamshire LPC NHS Community Pharmacy Hypertension Case-Finding Advanced Service Webinar

23rd February 2022



Agenda



- Introductions
- Context
- NHS direction and background to the service
- Lifestyle information and importance of the service
- What is the service and the service spec
- How to take a blood pressure reading
- Blood pressure equipment choices
- Signposting to other training available including
- Close





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Lifestyle interventions for hypertension



Lifestyle intervention for blood pressure reduction

| Intervention | Recommendation | Expected systolic BP reduction (range) |
|----------------------------|--|--|
| Weight reduction | Maintain ideal body mass index (20- 25 kg/m²). | 5- 10 mmHg per 10 kg weight loss |
| Dash eating plan | Eat diet rich in fruit, vegetables, low-fat dairy products. Eat less saturated and total fat. | 8- 14 mmHg |
| Dietary sodium restriction | Reduce dietary sodium intake to < 100 mmol/day < 2.4 g sodium or < 6 g salt (sodium chloride). | 2- 8 mmHg |
| Physical activity | Regular aerobic physical activity, e.g. brisk walking for at least 30 min most days. | 4- 9 mmHg |
| Alcohol moderation | Men ≤ 14 units per week. Women ≤ 14 units per week. | 2- 4 mmHg |



The Hypertension Alphabet Strategy

BMI

r u g s





Alcohol



- Reducing alcohol intake
 - < 14 units per week
 - Spread units through the week
 - Try low alcohol options
- How to count units



One exception to the rule...

Red wine

There has been some evidence to show cardio protective qualities and 3 - 5 glasses of red wine is to be encouraged (per week)









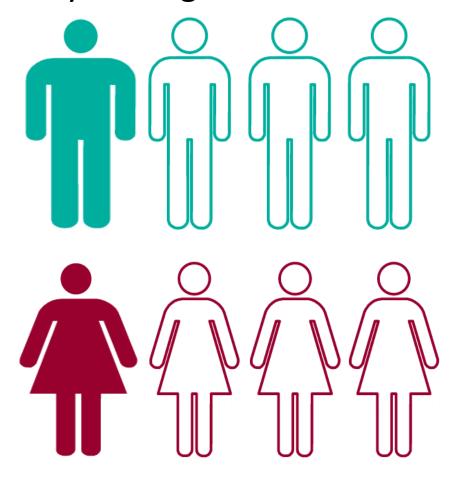
BMI



- Weight/height²
- Weight, height and girth measurement
- 5 -10mmHg BP reduction for 10kg weight loss
- Discuss local services



Obesity among adults Health Survey for England 2011-2013



One out of four **men** is obese (24.7%)

One out of four **women** is obese (24.9%)



- Smoking increases blood pressure
- Mediated by nicotine
- What is the role of nicotine replacement; ecigarettes, NRT, etc.?



Cigarettes







Drugs



- Most people with hypertension will need two drugs to manage it.
- Non-adherence is much higher in hypertension than with other drugs (50-80%)
- Opportunity for NMS



- 5 x 30 minute sessions per week
- Moderate intensity
- Don't focus on steps
- Build up slowly
- Caution with BP over 180/100



Exercise







Food



- Salt content
 - 2-8mmHg reduction
- Dietary approaches
 - 8-14 mmHg



Salt reduction

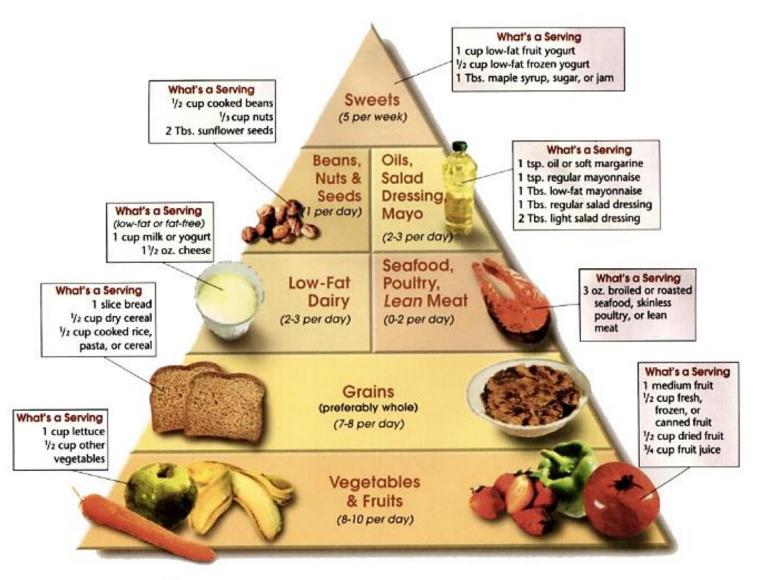
- A total of a teaspoon of salt per day = 6 gm (this is the maximum patients should be having)
- Salt in the afro-caribbean population
- Adding at the table or in cooking?
- Try to help people assess how much salt they are having





DASH

- Low saturated fat
- Low salt
- High in fruit and veg
- High in fiber
- High in calcium and magnesium
- Low fat dairy









The Socratic Fallacy

"If men know what is good they will do what is good."



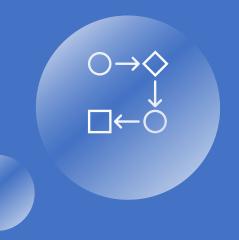


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The hypertension service – an overview

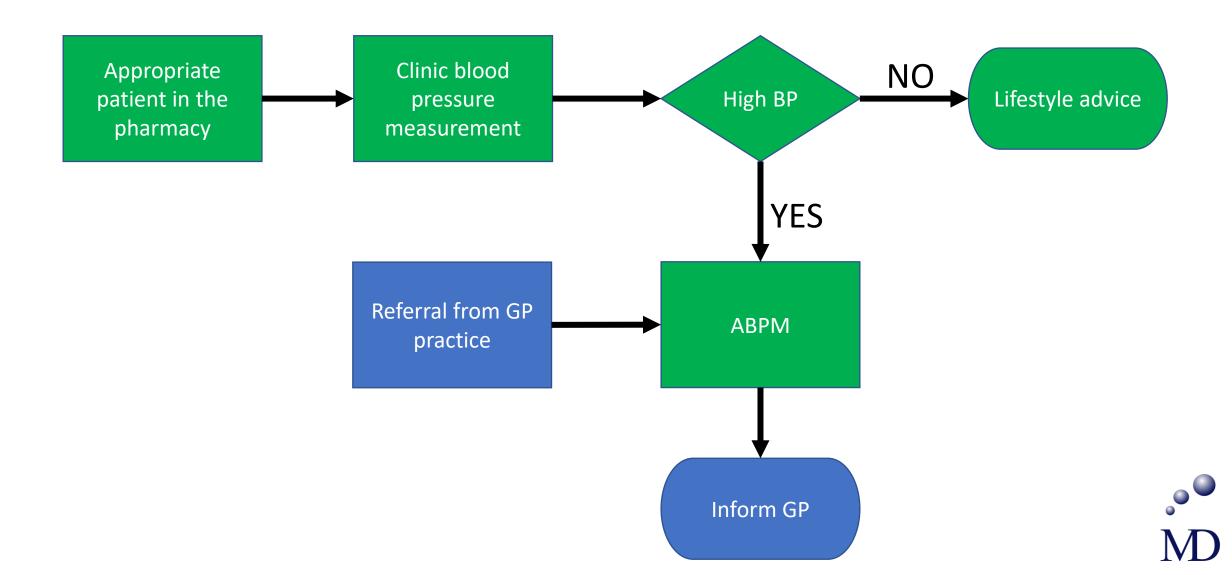
Service Description

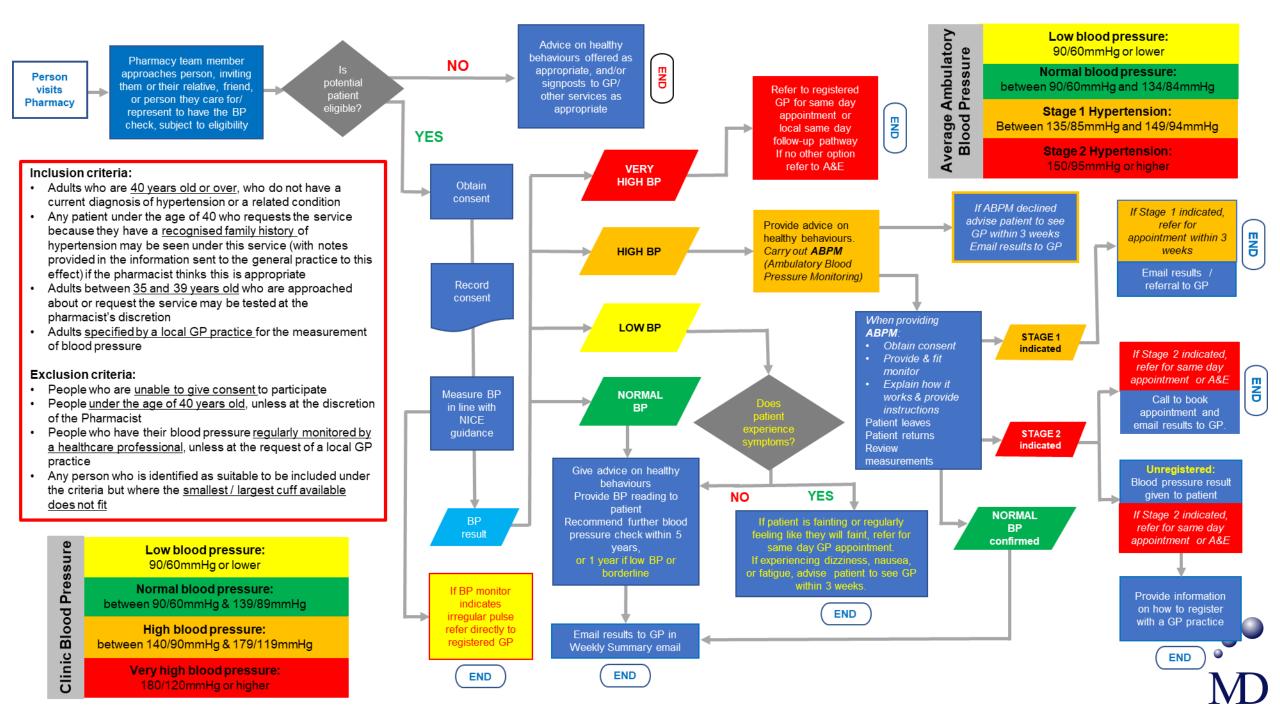


- Advanced service
- Started on 1st October 2021
- Two stages:
 - Stage 1 identify people at risk of hypertension – 'Clinic check'
 - Stage 2 24-hour ambulatory blood pressure monitoring (ABPM)
- Contractors must be able to provide both stages
- Currently only provided by pharmacists



Service in a nutshell





- Premises
 - Consulting room
 - Appropriate furniture
 - IT
- Training
 - Pharmacist
 - Pharmacy team
- Registration MYS
- SOPs
- Engage with GP practices / PCN

Pre-commencement



Patient eligibility



Inclusion criteria

- Adults ≥ 40 years with no diagnosis of hypertension
- By exception, < 40 years with family history of hypertension (pharmacist's discretion)
- Approached or self requested 35-39 years old (pharmacist's discretion)
- Adults specified by a general practice (clinic and ambulatory blood pressure checks)

Exclusion criteria

- Unable to give consent
- Under 40 years old
- People who have their blood pressure regularly monitored by a healthcare professional

Additional consideration

• Unable to support due to cuff size



- Both normal BP checks and ABPM
- Locally agreed process
- ABPM referrals best done electronically
- Template referral form available

Patient referral from GP





ABPM



- Supply the monitor
 - Fit the ABPM to the patient
 - Educate the patient
- Arrange a follow up appointment
- Record average daytime, night-time and 24 hr BP
- Interpret on 24hr BP
- Notify GP of all three readings



- Normal
 - 90/60 134/84mmHg
 - Provide advice
 - Weekly email results to GP
- Stage 1
 - 135/85 149/94mmHg
 - Refer within three weeks
 - Email results/referral
- Stage 2
 - >150/95mmHg
 - Same day referral
 - Call GP for appointment /email results

ABPM Informing the GP





Remuneration



- Setup fee £440
- Clinic check £15
- ABPM £45
- Incentive fees
 - £1,000 if 5 ABPMs in 2021/22;
 - £400 if 15 ABPMs in 2022/23 and
 - £400 for 20 ABPMs in 2023/24.





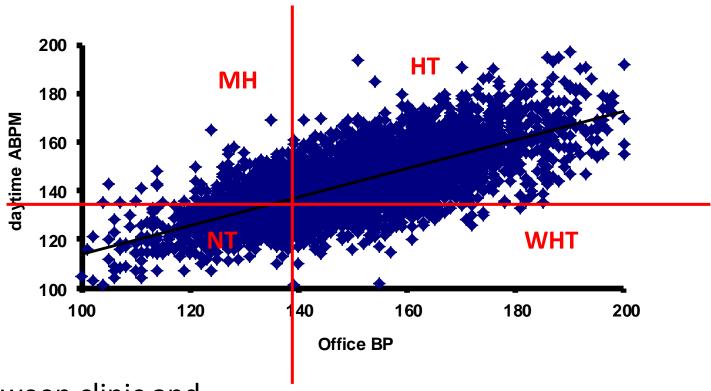
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Measuring BP correctly



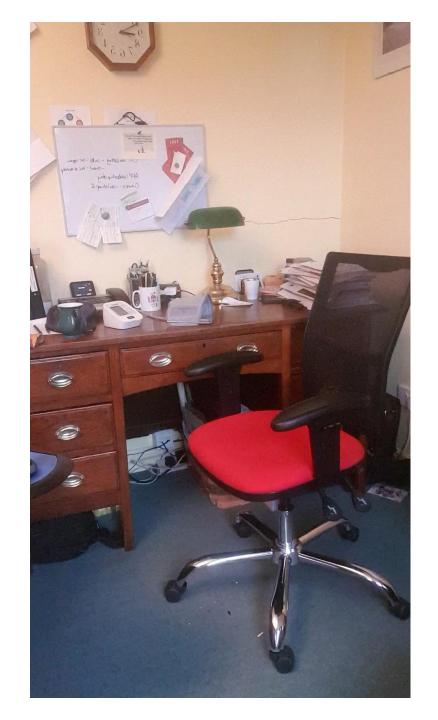
Out of Office BP



Relationship between clinic and ambulatory blood pressure



Measuring blood pressure





Situations affecting correct BP reading

Activity

- Cuff too small
- Cuff over clothing
- Back/feet unsupported
- Legs crossed
- Not resting 3 5 minutes
- Patient talking
- Pain

Systolic mmHg

10 to 40 mmHg 个

10 to 40 mmHg \uparrow or \downarrow

5 to 15 mmHg 个

5 to 8 mmHg 个

10 − 20 mmHg ↑

10 to 15 mmHg 个

10 − 30 mmHg ↑

Wisconsin Heart Disease and Stroke Prevention Program 2010

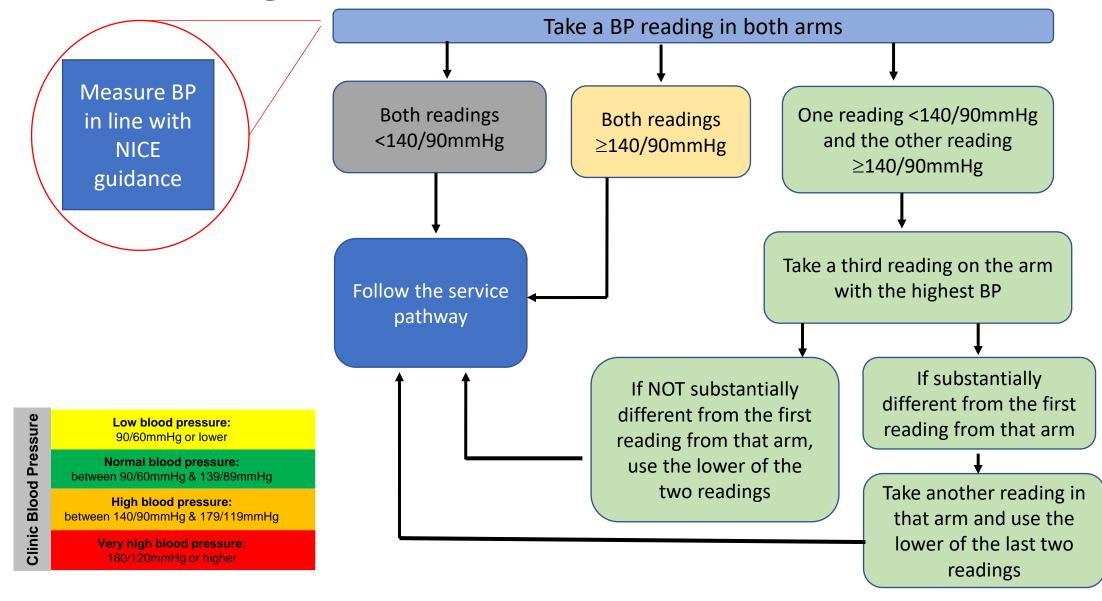


Checklist for measuring blood pressure

- Check for irregular heart beat
- Rest for at least 5 min, 30 minutes without smoking, caffeine or eating a meal
- No excessive alcohol
- Seated, back supported and arm supported on table/desk/box
- Legs uncrossed and both feet on ground
- Use the right size cuff and place properly
- Avoid constrictive clothing
- Support the arm at heart level

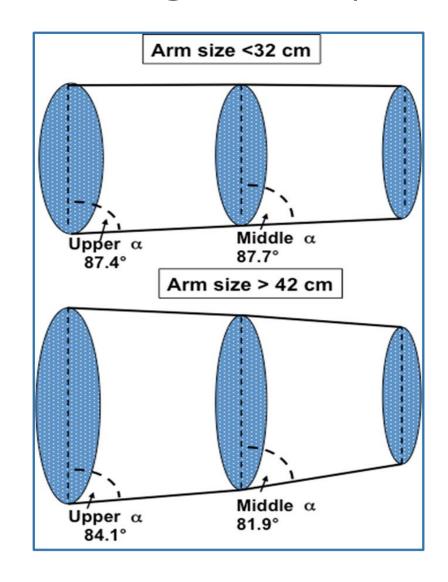


Providing the service – Clinic check





Measuring blood pressure in obese patients









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Choosing BP monitors



Blood pressure monitors

Auscultatory measurement

- Stops blood flow in arm
- Slow release of pressure
- Listen to sounds of blood flow returning
- Korotkoff sounds

Oscillometric measurement

- Arterial pulse wave leads to increase and decrease in pressure
- Pressure wave detected in cuff
- Pressure calculated with an algorithm

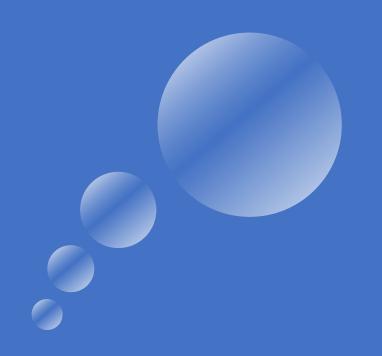
Manual monitors

Digital monitors



- BIHS validated
- Multi-position cuff
- Record of measurements
- Irregular heartbeat detection
- AF detection
- Automatic multiple tests
- Stroke risk identification
- Connection to smartphone

Useful additional features



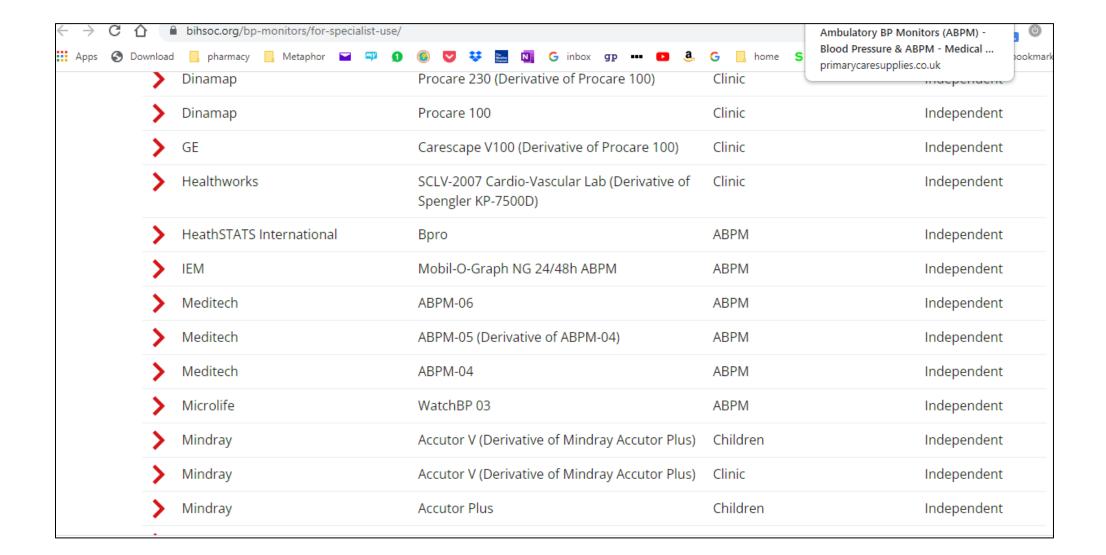
Monitor considerations



- Maintenance and training
- Service contract
- Calibration versus replacement cost
- Consumables;
- Complexity of use
- Software
- Insurance to cover accidental damage / theft



BIHS validated







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Other available training



