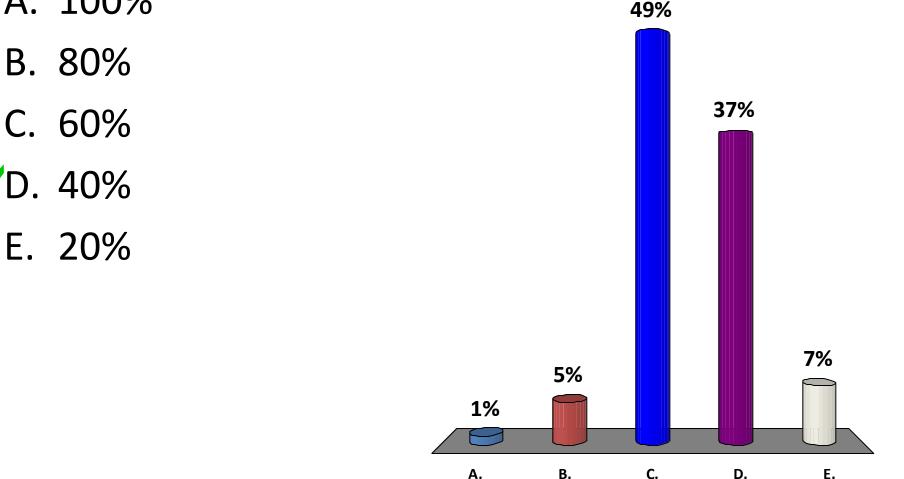
Hypertension

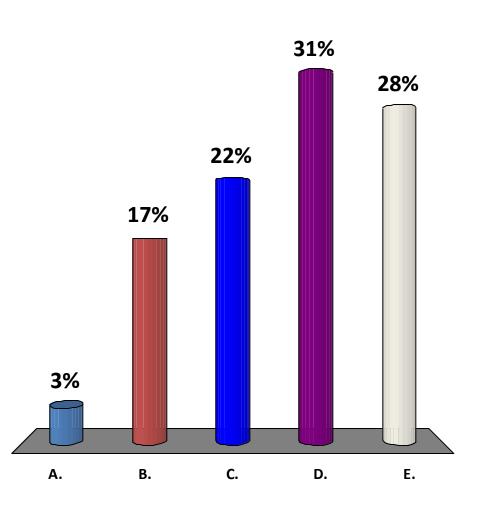
How many people with Hypertension are being diagnosed and treated correctly?



Of every **10** people with high blood pressure: 4 are undiagnosed 2 are on treatment but their blood pressure isn't controlled 4 are on treatment and their blood pressure is controlled

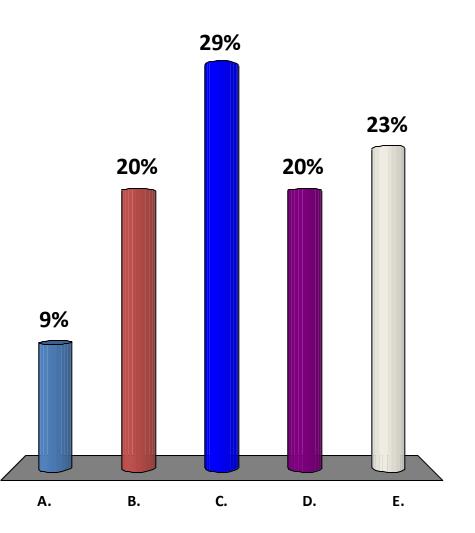
Barnsley premature mortality from CVD higher than average by how much?

- A. 5%
- B. 10%
- C. 15%
- **D.** 20%
 - E. 30%



Undiagnosed hypertensive population in Barnsley?

- A. 5,000
- B. 10,000
- C. 15,000
- D. 20,000
- E. 25,000





1 thing I did right?

List 7 things I did wrong!

- Only one arm
- Didn't palpate pulse
- On top of clothes?
- Talking
 - 15mmHg
- Crossed legs
 - 10mmHg
- Wrong Cuff size
 8 mmHg
- Didn't support her arm
 - 2mmHg

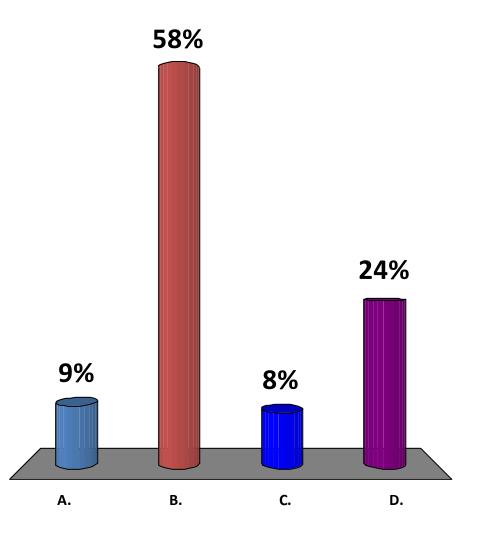
Cases

Mary

- 38 contraception check
- clinic blood pressure 158/94 mmHg
- (138/75- one year ago)

The magic clinic number above which you consider hypertension?

- A. 140/80
- **/**B. 140/90
 - C. 145/85
 - D. 150/90

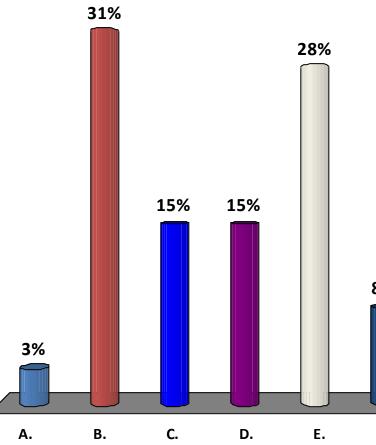


Mary

- 38 contraception check
- clinic blood pressure 158/94 mmHg
- (138/75- one year ago)

What next ?

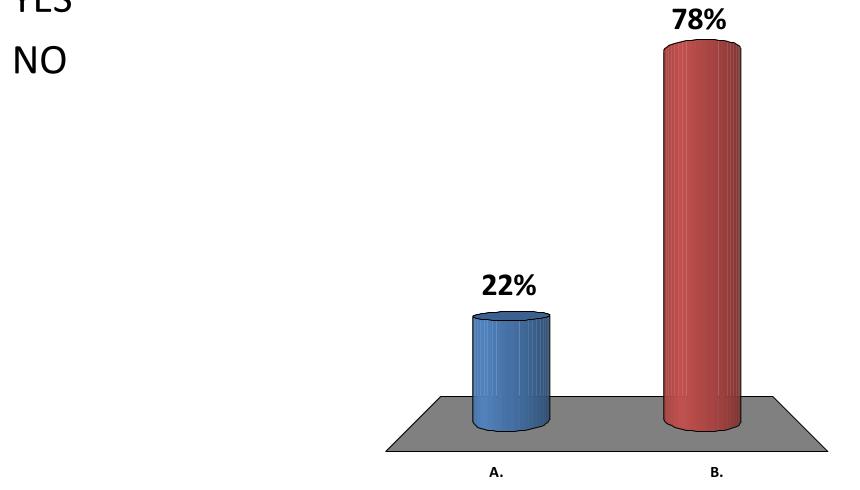
- A. Come back in a month see HCA – get BP re-checked?
- B. Check BP in other arm?
- C. Repeat BP in 1 minute?
- D. Offer ambulatory BP ?
- E. B and D
 - F. A and C



If first Clinic BP recording>140/90

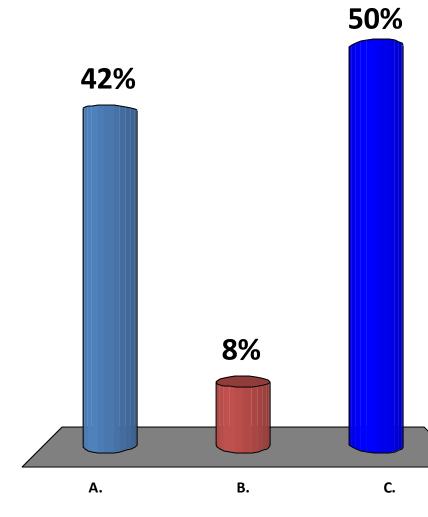
- Check BP in both arms
- If difference >20mm Hg ?
- Which arm recordings would you use ? Higher/Lower
- What can a 20mm difference represent?
- If not much difference between the two arms?
- repeat in clinic again in 5 minutes

Can Stage 1 or 2 Hypertension be diagnosed on Clinic recordings alone?



What will you offer patient?

- ✓A. Ambulatory BP monitor
 - B. Home BP monitor?
 - C. Give patient a choice?

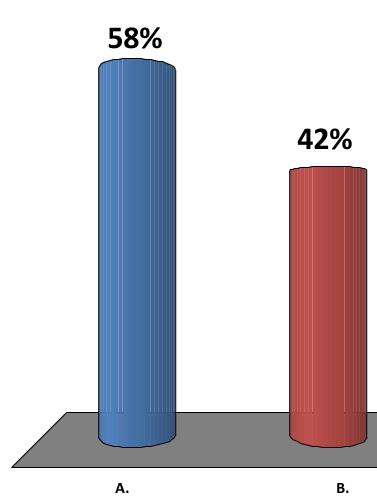


WHY do you have to offer AMBP/HMBP?

- Exclude White coat hypertension?
- 20/10

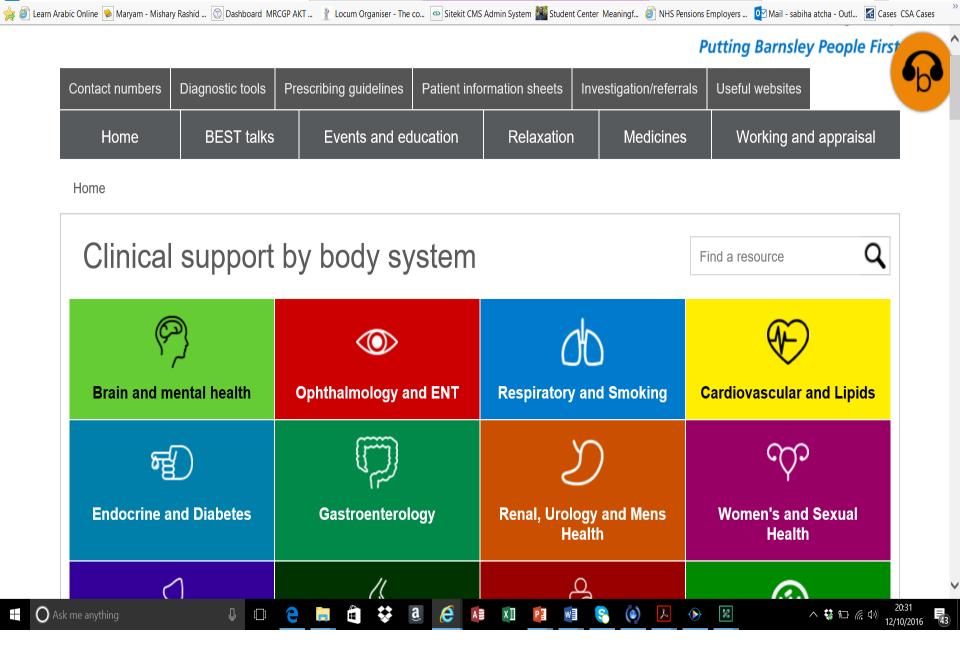
AMBP recordings

- ✓ A. Avg of 14 day time results?
 - B. Avg of 14 results over 24 hours?



Home BP recordings

How do you instruct them to take the recordings?

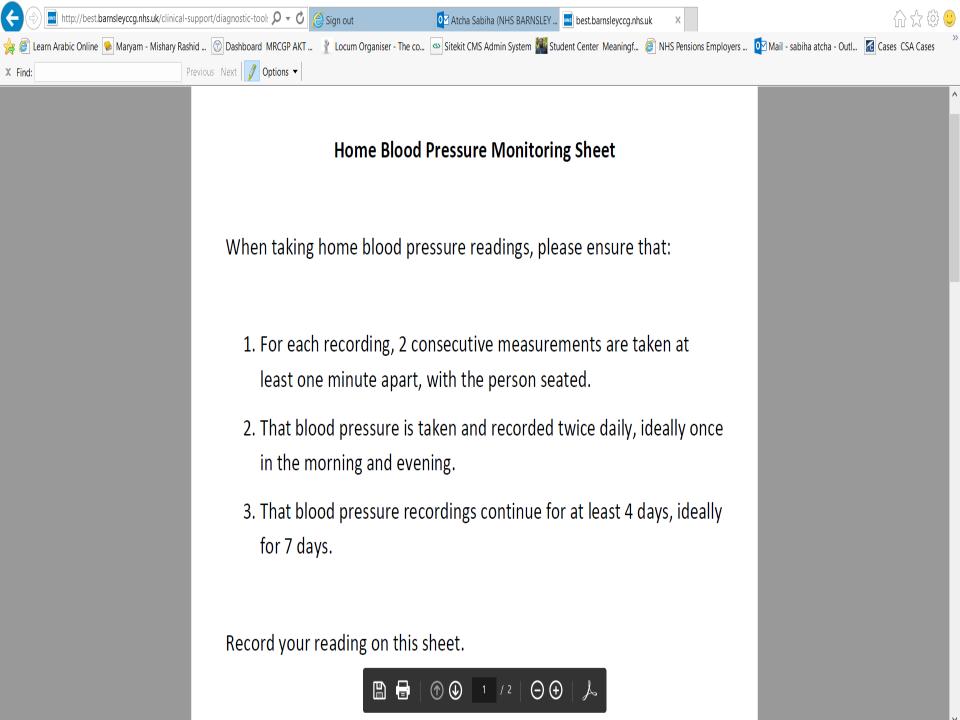


				F	Putting Barnsley	/ People Firs
Contact numbers	Diagnostic tools	Prescribing guidelines	Patient information sheets	Investigation/referrals	Useful websites	
Top patie	nt inform	ation sheets				
Fluid input/ outpu						
Headache diary						
Peakflow diary						
Menstrual diary						
DNACPR form /What happens if my heart stops						
Home Blood pressure monitoring chart						
URTI - Treating Your Infection						
Cough / Sore T	hroat / Ear infection					
Fever in Childre	<u>n- what to look out f</u>	for				
2 week wait info	sheet					
Physiotherapy- s	self referral					
	op diary 2016					

Z

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X Find:	Previous Next	🖉 Options 🔻					

PATIENT NAME	
EMIS NUMBER	
CONTACT NUMBER	
DOCTOR	

	BLOOD PRESSURE READINGS				
DATE	MOR	NING	AFTERNOON		
	First	Second	First	Second	
Example 15/8/16	151/70	145/69	143/68	147/72	

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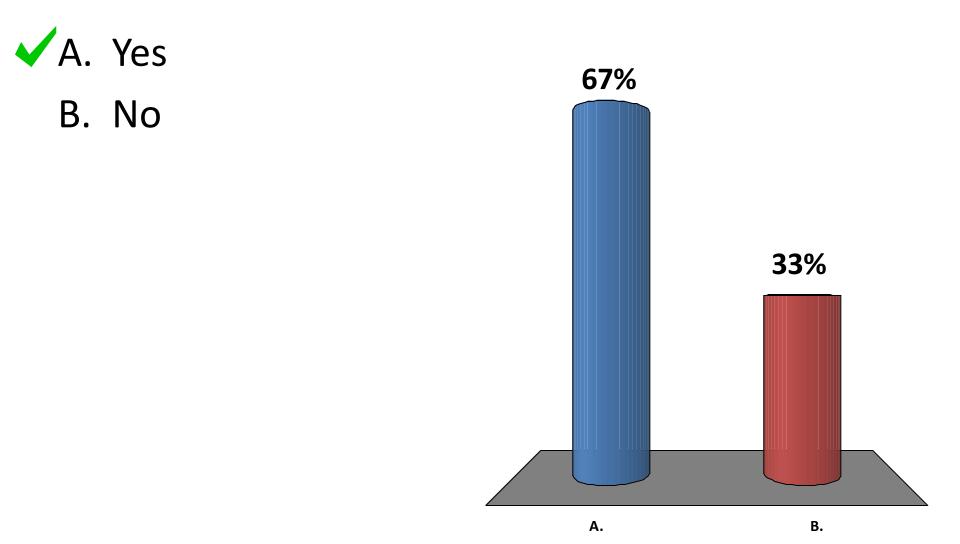
Mary

- Clinic:
- 158/94
- 149/93
- ABPM:
- 145/92
- Thoughts ?
- Stage 1 hypertension

What next?

- Test for end organ damage?
 - LVH- ECG
 - Retinopathy- fundoscopy
 - Renal-
 - urine dipstick- blood
 - Protein A:CR
- Bloods
 - U+E,eGFR
 - Glc
 - Total chol and HDL

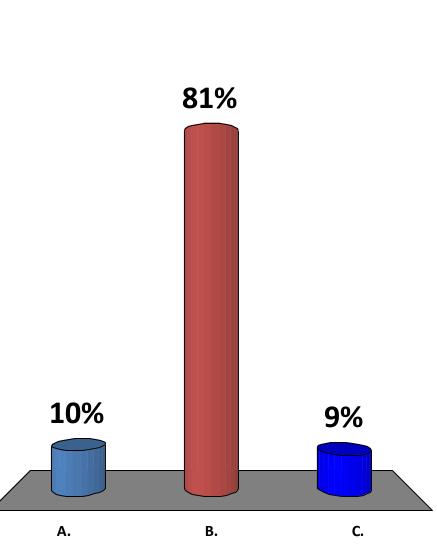
Q risk calculation ?



Would you refer Mary to the hospital?

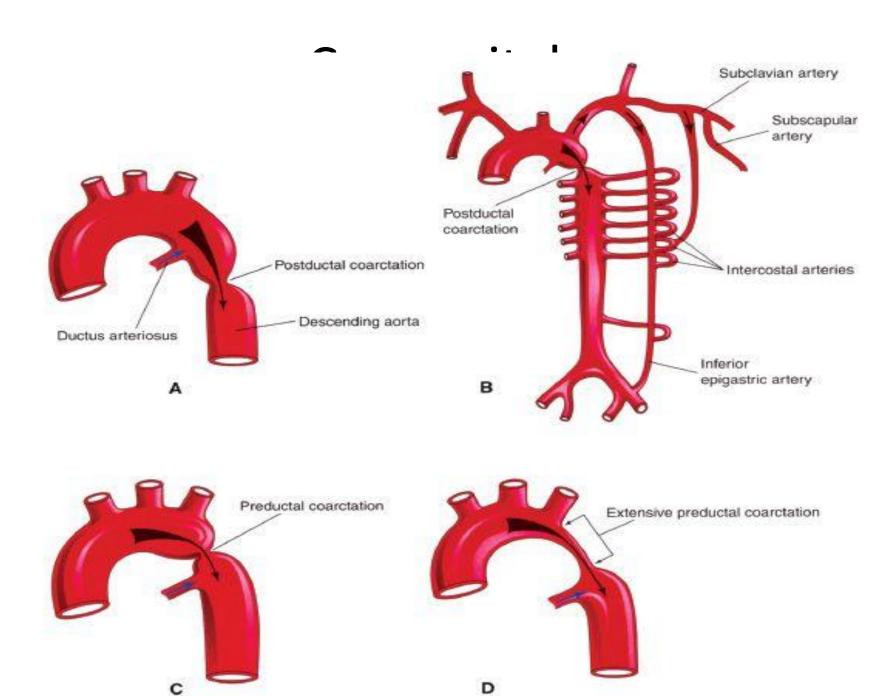


- B. No!
- C. unsure



Secondary Causes of hypertension?

- Drugs
 - Steroids
 - NSAIDs
 - COCP
 - Illicit
- Endocrine
 - hyperthyroidism
 - Conns
 - Cushings
 - Phaeochromocytoma
 - acromegaly
- Renal
- Congenital ?



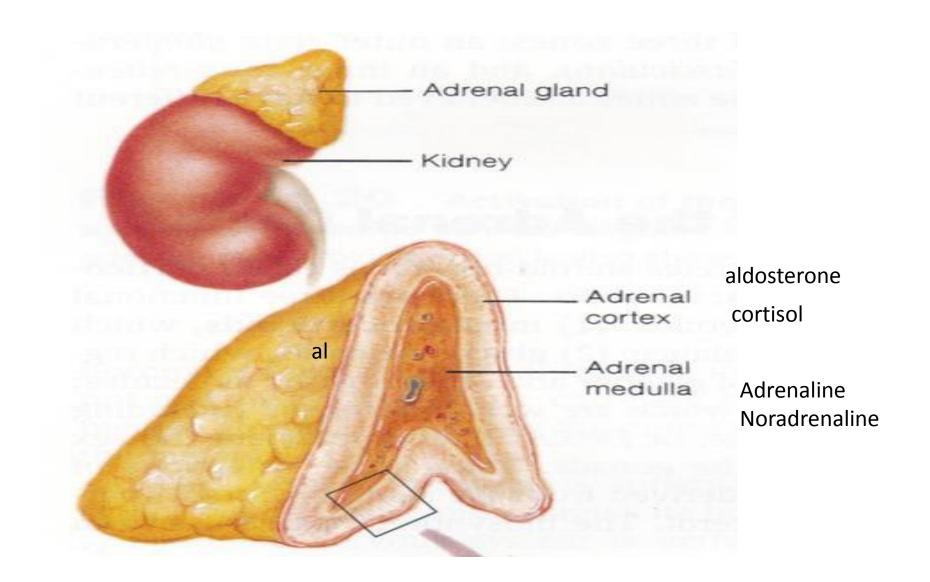
 A 28-year-old who is 10 weeks pregnant is noted to be hypertensive on her booking visit.
 Blood show a potassium of 3.1 mmol/l.
 Clinical examination is unremarkable

• ? Cause for hypertension?

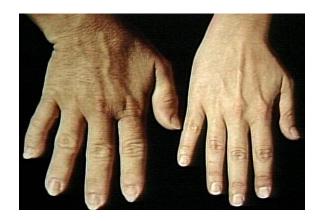
- Sodium
 - high
- Potassium
 - Low
- Glucose
 - high



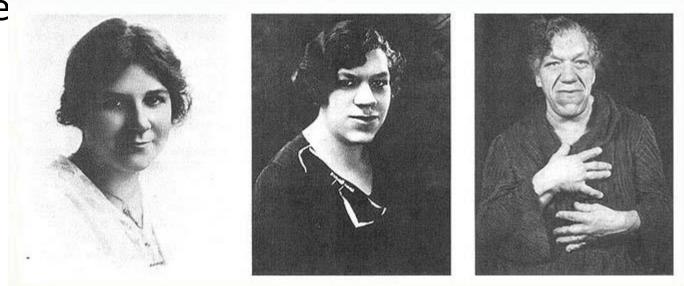
- Headaches, palpitations, sweating+, anxiety
- Settles within the hour !
- Postural hypotension



Case...



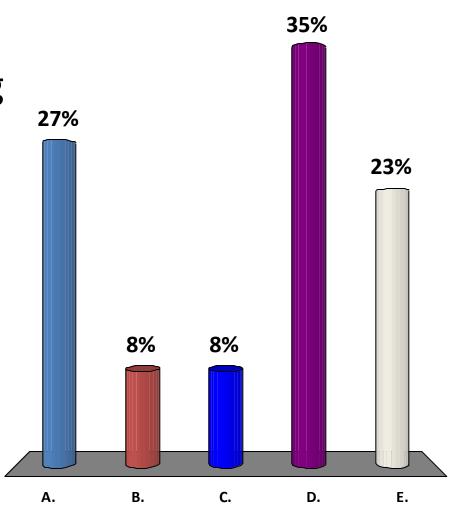
- Headaches
- sweating
- visual loss
- hyperte



- A 68-year-old with a history of ischaemic heart disease is seen in the hypertension clinic.
 Despite four anti-hypertensives his blood pressure is 174/94 mmHg.
- An abdominal ultrasound shows asymmetrical kidneys

How will you manage Mary?

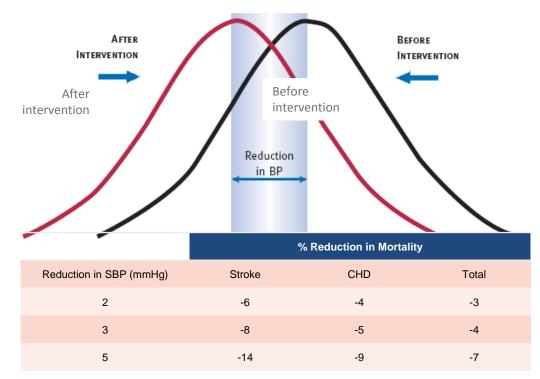
- A. Start ACE inhibitor
- B. Start amlodipine 5mg
- C. Lifestyle advice
 - D. A and C
 - E. B and C



Life Style Advice . Is it Really effective?

- Salt ***
 - 7-10 mmHg
- Fruit/veg –DASH diet
 - 10mmHg
- Alcohol limits
 - 7mm Hg
- Exercise- 2-3 hrs/wk
 - 5mmHg
 - "Sedentary Death Syndrome"
 - Exercise : not a miracle Cure, just good medicine
- Weight loss- 1kg
 - 1mmHg

Modest reductions in SBP can substantially reduce cardiovascular mortality



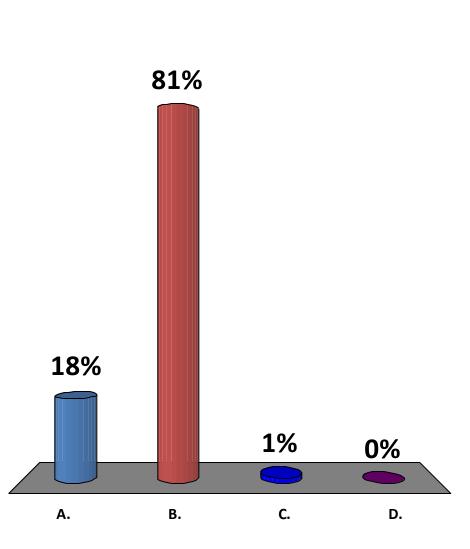
SBP = systolic blood pressure; CHD = coronary heart disease

Adapted from Whelton PK, et al. JAMA 2002;288:1882-1888.

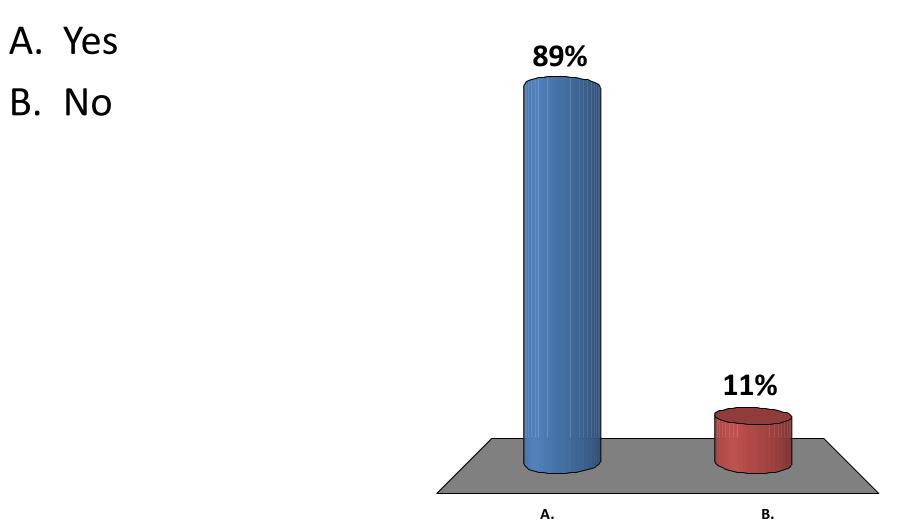
Salt:

Daily recommended amount?

- A. 3g B. 6g
 - C. 12g
 - D. 24g

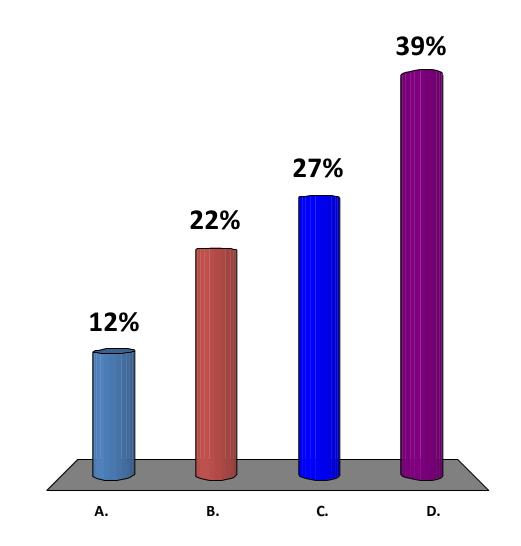


Do you know how much 6g of salt looks like?



How much salt is there in:-8 tabs co-codamol 8/500 (soluble)

- A. 1.5g
- B. 3g
- C. 6g
- ✓D. >6g



Mary -Summary

Case 2 Danny 39yrs

- Clinic
 - 149/91
 - 150/92
- ABPM
 - 147/89

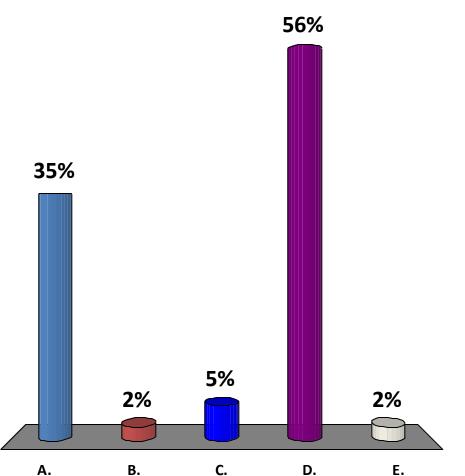
• Diagnosis?

What next?

- Test for end organ damage?
 - LVH- ECG 🗸
 - Retinopathy- fundoscopy
 - Renal-
 - urine dipstick- blood
 - Protein A:CR
- Bloods
 - U+E,eGFR
 - Glc
 - Total chol and HDL

How will you manage Danny?

- A. Start ACE inhibitor
- B. Start amlodipine 5mg
- C. Lifestyle advice
- D. A and C
- E. B and C



BP Targets

- Danny's BP after one month treatment 135/86
- Normal target 140/90
- Special values if :-
- Diabetic
- CKD3-5
- ACR>70
- MI/CVA/TIA

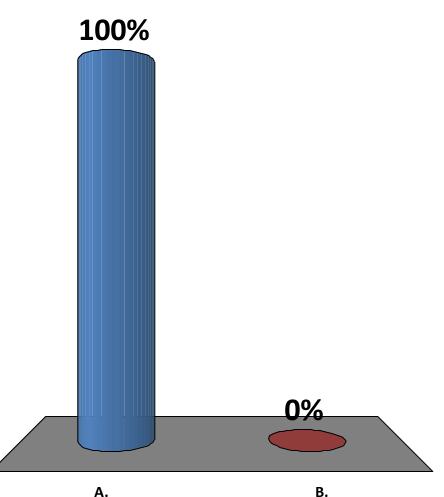
Doris 81 yrs old

- Clinic
 - 174/100
- ABPM
 - 170/95

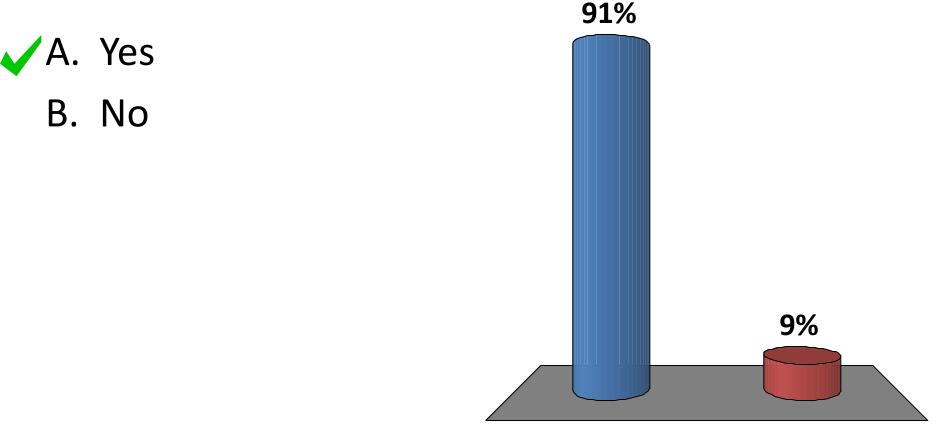
- Has Doris got white coat hypertension?
- What is her Diagnosis?

What treatment will you commence?

✓A. Amlodipine 5 mg B. Amlodipine 10 mg



Doris's BP 1 month after amlodipine 5mg is 145/85. Is this acceptable?



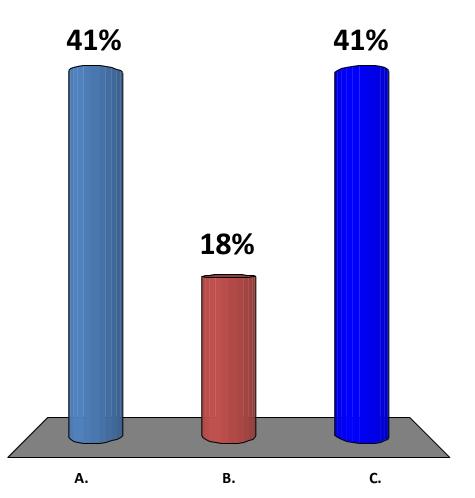
Derek 53 – bus driver

- Clinic
 - 176/108
- ABPM x
- HBPM
 - 155/97

Clinic 176/108-HBPM- 155/97 Diagnosis?

- A. Stage 2 hypertension
- B. White coat hypertension

C. A&B

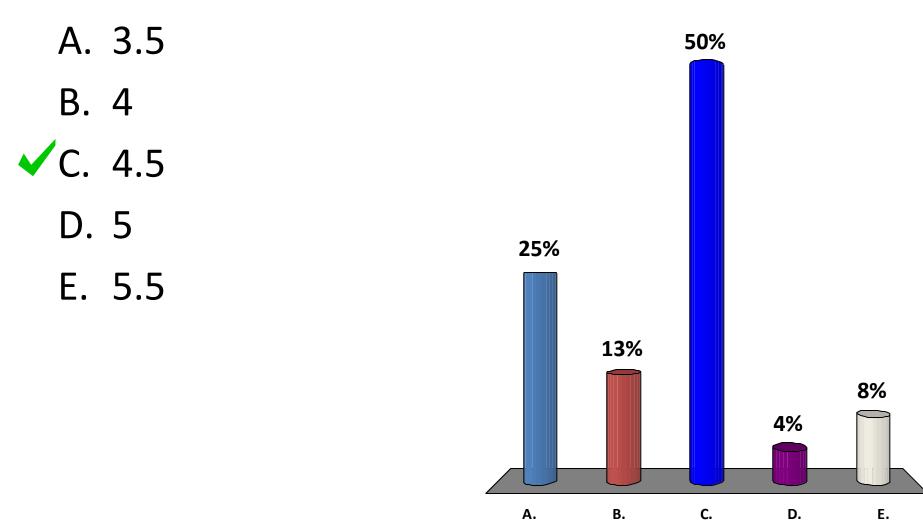


Treatment for Derek?

- Ace/ARB
- CCB
- Diuretic
- Alpha blockers/ beta blockers/ (spironolactone)

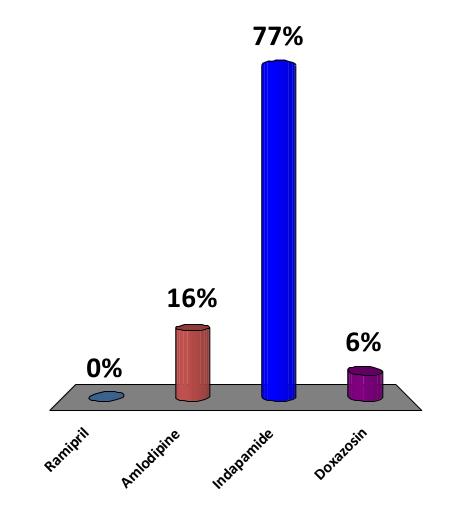
• Target BP?

Spiranolactone and potassium. Magic number ?



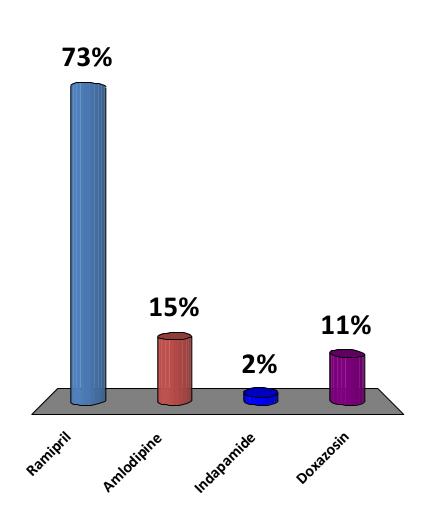
Diabetes, gout, high cholesterol

- A. Ramipril
- B. Amlodipine
- C. Indapamide
- D. Doxazosin





- A. Ramipril
- B. Amlodipine
- C. Indapamide
- D. Doxazosin



- Stage 1 Hypertension
- Stage 2 Hypertension

Severe Hypertension

 Clinic Sys >180 OR
 Clinic Diastolic >110

