

Vascular Disease Screening Now and the Future

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CVS: Preventing Harm



Global

• 17.9 million deaths worldwide CVD

• 31% of all deaths

Scale of the problem

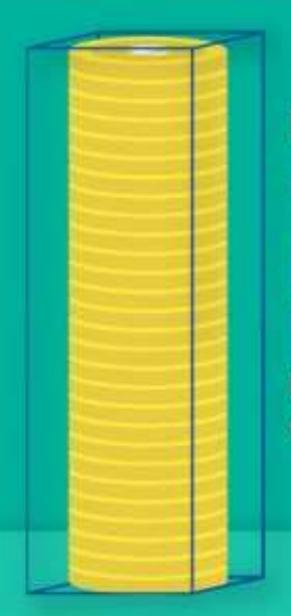
Cardiovascular disease (CVD)
is the leading cause of death worldwide



In England, CVD causes

1 in 4 deaths
which equates to
1 death every 4 minutes

Costs of cardiovascular disease to the NHS and wider society



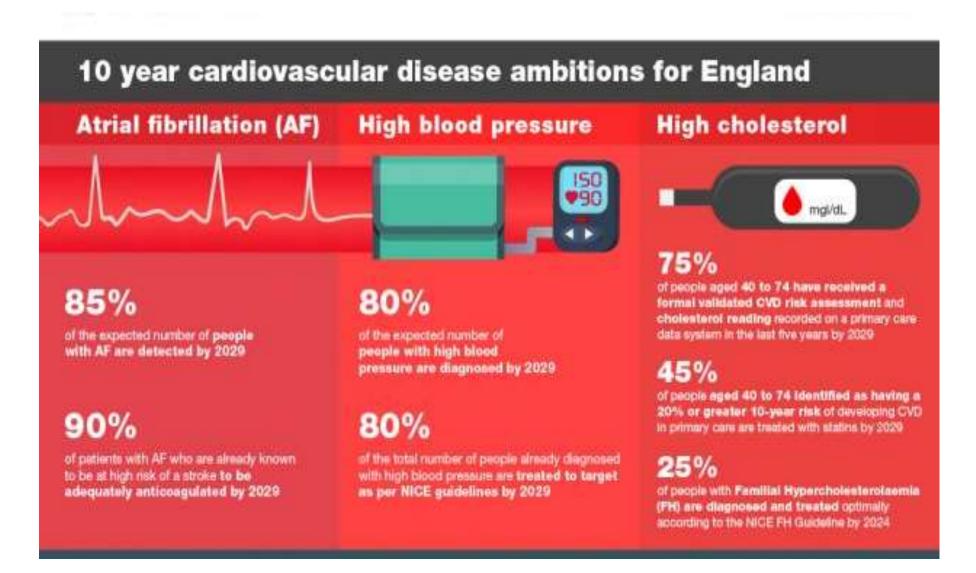
Estimated
£15.8
billion
per year
Non-healthcare
costs

6.8 million people with CVD



Healthcare costs alone in England stand at an estimated

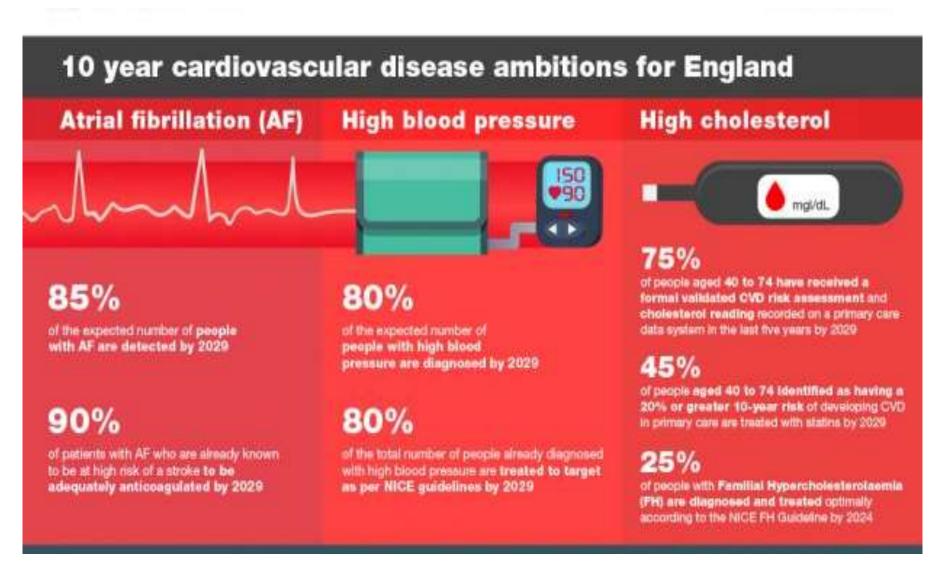
NHS Long Term Plan

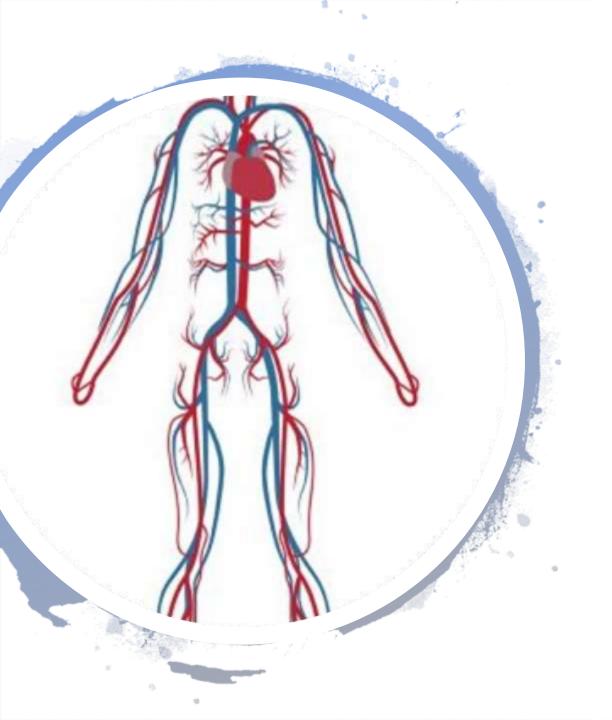


NHS Long Term Plan

49k Strokes

31k MIs



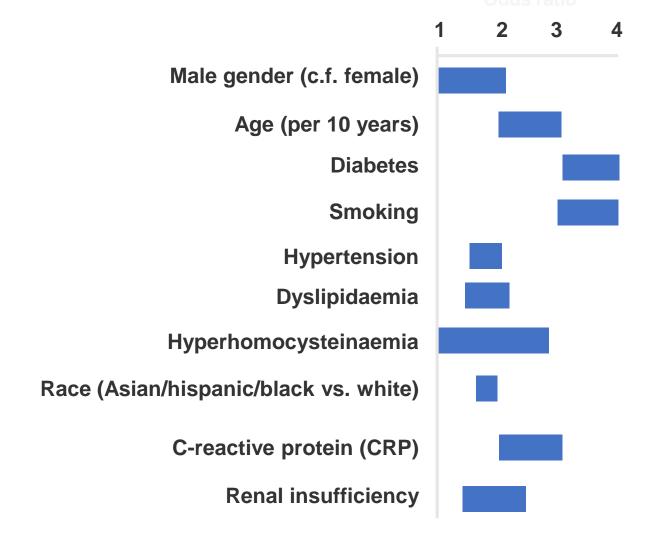


Vascular Disease

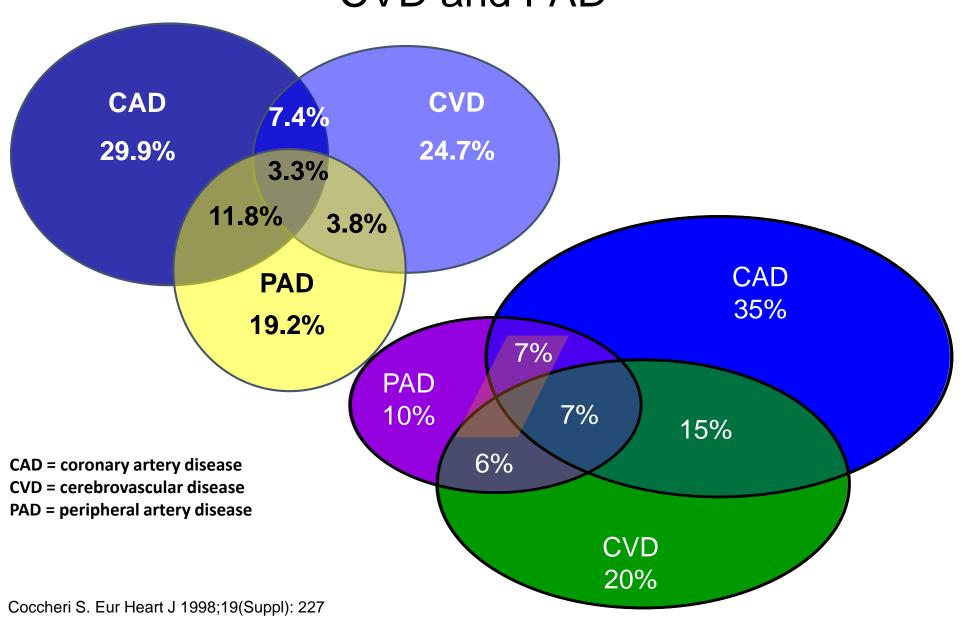
Peripheral Arterial
Disease
Aortic Aneurysms



Risk factors for PAD



CAPRIE/AGATHA: overlap between CAD, CVD and PAD



Prevalence of polyvascular disease in registries

Study	Patients (n)	Stroke	Stroke and PAD	Stroke and CHD	Stroke PAD CHD	Polyvascular
REACH ¹	67,888	18,843 (16.6%)	815 (2.8%)	5703 (10%)	1086 (1.6%)	15.9%
CAPRIE ^{2,3}	19,000	7391 (39.2%)	722 (7.1%)	1387 (10.7%)	627 (3.3%)	26.3%
DETECT ⁴	753	753	94 (12.5%)	119 (15.8%)	45 (6.0%)	34.3%
SCALA ⁵			433 (50.8%)	349 (41%)	?	>50%
GetABI ⁶	6880	1218 (17.7%)	165 (13.5%)	468 (38.4%)	186 (15.3)	67.2%

¹Bhatt DL et al. *JAMA* 2006;295:180–189; ²Morrell J *Br.J.Cardiol* 2007;14:supplement 3; ³Coccheri S. *Eur Heart J* 1998;19(Suppl) 227 ⁴Levs D *et al.Cerebrovasc Dis* 2006:21:60–66: ⁵Weimar C *et al. J Neurol* (in press): ⁶Diehm C et al. *Eur Heart J* 2006:27:1743–1749

QOF PAD 001.1

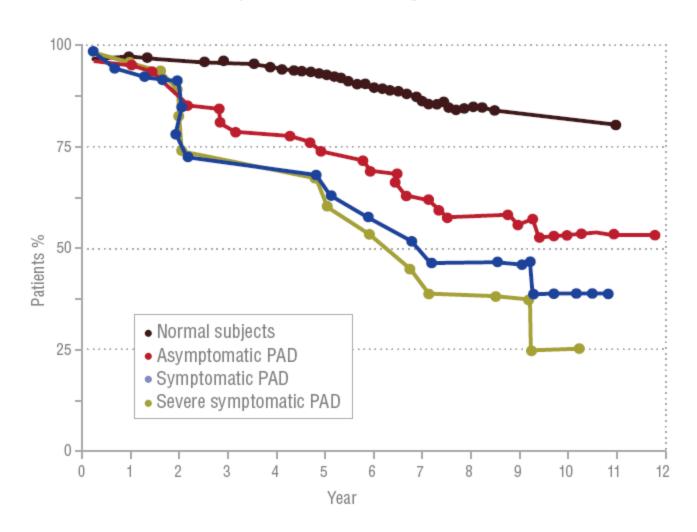
PAD Register

- Symptomatic (>60. only 20%)
- Asymptomatic

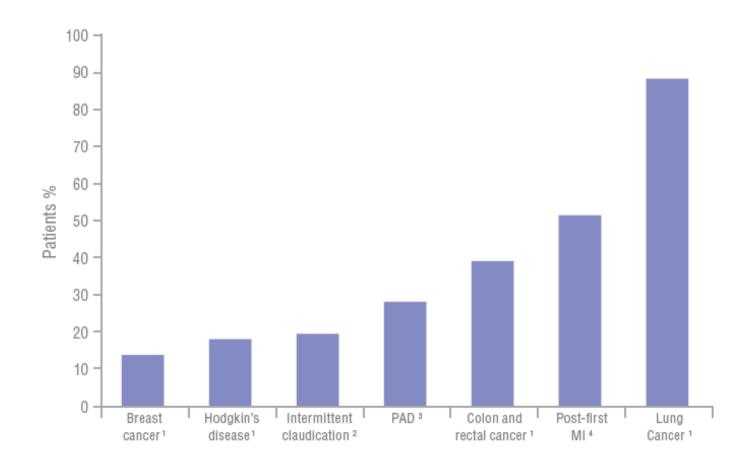
Reduced ankle brachial pressure index is an independent predictor of cardiac and cerebrovascular morbidity and mortality and may help to identify patients who would benefit from secondary prevention

Long-term survival in patients with PAD

565 patients >66 years old



5-year mortality rate in PAD compared with other conditions



Graph adapted from Criqui MH. Vasc Med. 2001;6(3 Suppl):3-7.

- American Cancer Society. Cancer facts and figures 1997.
- 2 Leng GC et al. Int J Epidemiol 1996. 25 (6): 1172–1181.
- 3 Kampozinski RP, Bernard VM. In: Rutherford RB (ed). Vascular surgery. Philadelphia: WB Saunders, 1989: chapter 53.
- 4 Capewell S et al. Eur Heart J 2000. 21 (22): 1833-1840.

Aneurysmal Disease

Aneurysm screening in

An abdominal aortic aneurysm (AAA) is a dangerous swelling of the aorta, the largest blood vessel in the body.

England, Wales, Scotland and Northern Ireland all have similar screening programmes that prevent hundreds of premature deaths in older men.

Together, the 4 nations each year invite about 400,000 men aged 65 for screening, sharing learning and best practice to improve health outcomes.





	England	Wales	Scotland	Northern Ireland
Men screened	233,426	15,800	61,942	7,601
Uptake	79.5%	80.1%	85.8%	83.0%
AAAs detected	2,773	208	936	111
Prevalence	1.2%	1.3%	1.5%	1.5%



www.gov.uk/phe/screening

@PHE_Screening

Who should be screened?

- men aged 65 or over AAAs are up to 6 times more common in men than women, and the risk of getting one goes up as you get older
- people who smoke if you smoke or used to smoke, you're up to 15 times more likely to get an AAA
- people with <u>high blood pressure</u> high blood pressure can double your risk of getting an AAA
- people with a parent, sibling or child with an AAA you're about 4 times more likely to get an AAA if a close relative has had one

Foot Screening in Patients with Diabetes

Who is at Risk?

- Neuropathic prevalence 58%¹ (85%)²
- Ischaemic 4 X non diabetic
- Neuroischaemic
- Structural abnormality



¹Harati Y. Diabetic peripheral neuropathy. In: Kominsky SJ, ed. Medical and surgical management of the diabetic foot. St. Louis: Mosby, 1994:73-85.

²Pecoraro RE, Reiber GE, Burgess EM. Pathways to diabetic limb amputation. Basis for prevention. Diabetes Care 1990;13:513-21.

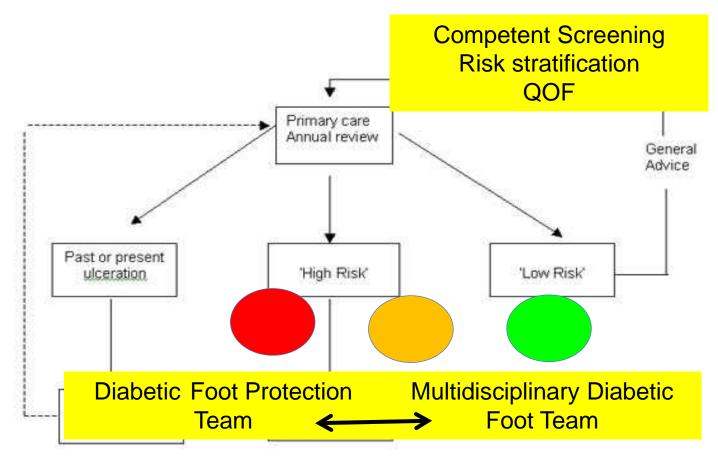
Diabetic Foot Complications

- Deformity
- Corn and callous
- Ulceration
- Gangrene
- Osteomyelitis
- Amputation (15 -46%)

Ischaemia



Integrated Care Pathways



National Diabetes Foot Ulcer Audit

NICE Guidance

- Any inpatient with diabetes should have a diabetic foot check
- Patients with diabetic foot disease should be referred to a Multidisciplinary
 Foot Team

Waterlow scores, Pressure reporting.....Stop the red

Nationally failing abysmally!



Mr/Mrs X

Blood Tests

Blood Pressure Measurement

ECG

ECHO

ABPI

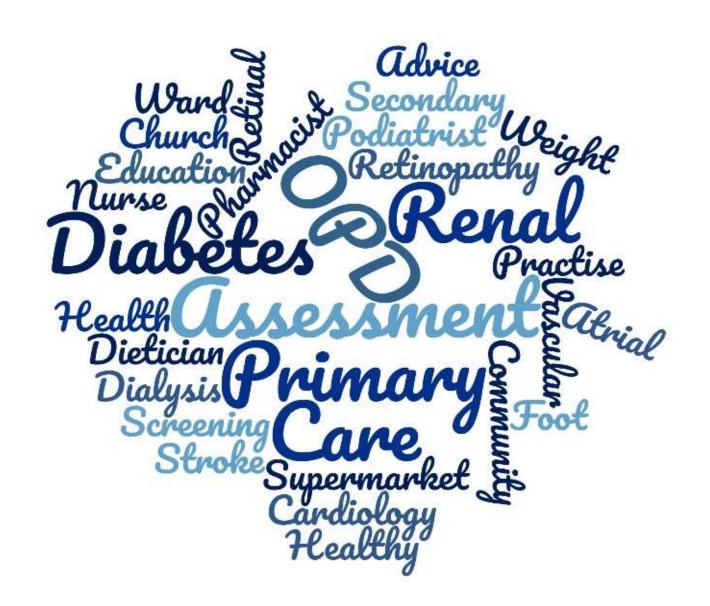
USS Aorta

Foot Check

Neuropathy assessment



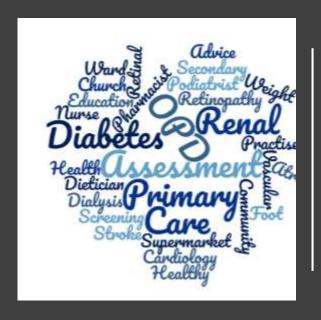
Networked Care: Every Opportunity Counts



Changing Roles

- Extending Roles
- Increased Training
- Consider Skill Mix and Ambitions
- Opportunities for Local Investment
- Manchester Model for PAD Pods
- St Thomas' Haematology/Primary Care AF
- Foot HCA Champions at St Heliers
- Dialysis Foot Checks
- Community Checks with Open Access
- Increased use of Pharmacist Screeners/Advice
- Chair side Atrial Fibrillation testing in Pod clinics











Networked Care: Every Opportunity Counts