# CVD Prevention National Picture \& Strategy 

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## Long Term Plan - the NHS in 10 years 2019-2029

## Prevention and Health Inequalities

- CVD Prevention
- Prevent 150,000 heart attacks, strokes and dementia cases
- Provide education and exercise programmes to tens of thousands more patients with heart problems, preventing up to 14,000 premature deaths



## CVDP Strategy

To do the basics correctly -
Prevention Everywhere
Good Processes
Good Guidelines


## The Role of the NHS in CVD Prevention?

- Chris Whitty (Chief Medical Officer)

Government should be putting more money into prevention
(https://www.youtube.com/watch?v=1hj9yBzC2-0)

NHS delivers CVD -- Prevention?

- Tobacco support
- Weight Management
- Alcohol
- CVD : ABC - Atrial Fibrillation/ Blood pressure / Cholesterol



## CVD Prevention - Strategy Clinical Leadership is Key



Development of CVD
Prevention Clinical
Leadership
at all levels


CVD Prevention Meetings and Educational Events (Webinars, Stroke Network Education Event, wider events)
Good Guidelines working as one

Data driven decisions


CVD Prevention
Communications Strategy
(Public and Professional)


Bringing together
departments \& organisations to embed the prevention agenda

NHS \& local authorities


Embracing new technology and new models of care Embracing innovation

## Health Inequalities



Blood Pressure --

- HYP008. The percentage of patients aged 79 years or under with hypertension in whom the last blood pressure reading (measured in the preceding 12 months) is $140 / 90 \mathrm{mmHg}$ or less (or equivalent home blood pressure reading)
- HYPO09. The percentage of patients aged 80 years or over, with hypertension, in whom the last blood pressure reading (measured in the preceding 12 months) is $150 / 90 \mathrm{mmHg}$ or less, (or equivalent home blood pressure reading)


## Prevalence of Hypertension - 16.6\%

$20 \%$


## More hypertension in Least Deprived

HYPERTENSION
DIAGNOSIS
CVDP001HYP: Prevalence of GP recorded hypertension in patients aged 18 and over

| Data Extract | Metadata |
| :--- | :--- |

All Persons Time Series Inequalities Marker Time Series Area Breakdown

Inequalities Marker Time Series: England

| Age group Deprivation quintile Sex Sex - Age Standardised | Deprivation quintile - Age Standardised |
| :--- | :--- |



## More Hypertension in Elderly Groups

## hYpertension diagnosis

## CVDP001HYP: Prevalence of GP recorded hypertension in patients aged 18 and over

| Data Extract | Metadata |
| :--- | :--- |

All Persons Time Series Inequalities Marker Time Series Area Breakdown

Inequalities Marker Time Series: England
Age group Deprivation quintile Sex Sex - Age Standardised Deprivation quintile - Age Standardised


# Age Standardised - More disease in the deprived areas 

HYPERTENSION DIAGNOSIS
CVDP001HYP: Prevalence of GP recorded hypertension in patients aged 18 and over

```
Data Extract Metadata
```

Inequalities Marker Time Series: England
Age group Deprivation quintile Sex Sex - Age Standardised Deprivation quintile - Age Standardised
$\qquad$

## Current \% of patients with hypertension treated to target

Percentage of patients aged 18 and over, with GP recorded hypertension, in whom the last blood pressure reading (measured in the preceding 12 months) is below the age appropriate treatment threshold


QOF - Lipids

- CHOL001. Percentage of patients on the QOF Coronary Heart Disease, Peripheral Arterial Disease, Stroke/TIA or Chronic Kidney Disease Register who are currently prescribed a statin, or where a statin is declined or clinically unsuitable, another lipid-lowering therapy 70-95\% (14)
- CHOL002. Percentage of patients on the QOF Coronary Heart Disease, Peripheral Arterial Disease, or Stroke/TIA Register, who have a recording of non-HDL cholesterol in the preceding 12 months that is lower than 2.5 $\mathrm{mmol} / \mathrm{L}$, or where non-HDL cholesterol is not recorded a recording of LDL cholesterol in the preceding 12 months that is lower than $1.8 \mathrm{mmol} / \mathrm{L}$ 20-35\% (16)

CHOLESTEROL MANAGEMENT
CVDP009CHOL: Percentage of patients aged 18 and over with GP recorded CVD (narrow definition), who are currently treated with lipid lowering therapy.

```
Data Extract
```

All Persons Time Series Inequalities Marker Time Series System Level Comparison Area Breakdown

## Inequalities Marker Time Series: North East and Yorkshire

Chart Table

| Age group | Deprivation quintile |
| :--- | :--- |



CVDP007CHOL: Percentage of patients aged 18 and over, with GP recorded CVD (narrow definition), in whom the most recent blood cholesterol level (measured in the preceding 12 months) is non-HDL cholesterol less than $\mathbf{2 . 5 m m o l} / \mathrm{I}$ or LDL-cholesterol less than $1.8 \mathrm{mmol} / \mathrm{l}$

```
Data Extract
```

All Persons Time Series
Inequalities Marker Time Series
System Level Comparison
Area Breakdown
Inequalities Marker Time Series: North East and Yorkshire

| Age group Deprivation quintile Ethnicity Sex |
| :--- | :--- |



## Summary of National Guidance for Lipid Management for Primary and Secondary Prevention of CVD

## INITIAL CONSIDERATIONS:

- Measure non-fasting full lipid profile (total cholesterol, HDL-C, non-HDL-C, triglycerides) and HbA 1 c as part of an initial baseline assessment. - Consider secondary causes of hyperlipidaemia and manage as needed.
$\bullet$ Ensure appropriate baseline and follow up tests as detailed on page 2. Measure BMI. - Identify and exclude people with contraindications/drug interactions • If non-fasting triglyceride above 4.5 mmol see page 2 .


Summary of National Guidance for Lipid Management for

InITIAL CONSIDERATIONS:

- Measure non-fasting full lipid profile (to
- Ensurure appropiate baseline and followt

| Consider stain therapy for adults who do not |
| :--- |
| below. Use ORISK risk assessment tool wherg |
| RSA |

Risk Assessment)


- Measure full lipid profie agan
- High intensity statid profile again after 3 months High intensity statin treatment should achieve
not achieved after 3 months; not achieved after 3 months;
- discuss treatment adherence
- discuss treatment adherence, timing of do
- If at tigher risk (based on comorbididities, ri 'Additional Risk Factors' consider increas Adoititonal Risk Factors) consid
dose of atorvastatin 80 mg dally.
- For how to increase in people with CKD st

| - If patients on a high-intensity statin have side |
| :--- |
| (see page 2 'Extent of flipidid lowering with avai | - (see page 2 'Extent of lipid lowering with avai

- If maximum tolerated dose of statin does not - If maximum tolerated dose of statin does not
value after 3 months consider adding Ezetimi - If statin treatment is contraindicated or not tol
- See AC Statin Intolerance Algorithm for al Ezetimibe 10 mg monotherapy may be cons - Ezetimibe $10 \mathrm{mg} /$ bempedoic acid 180 mg a
alone does not control non-HDL -C . 1 DL - Cu alone does not control non-HDL-C/LDL-C u


## If non-HDL-C reduction remains $<40 \%$ of $b$ therapy (including people with intolerances an

## PRIMARY PREVENTION

Consider statin therapy for adults who do not have established CVD but fall into the categories below. Use QRISK risk assessment tool where appropriate (see page 2, 'Primary Prevention Risk Assessment')


Identify and address all modifiable risk factors - smoking, diet, obesity, alcohol intake, physical activity, blood pressure and HbA1c.


PRIMARY PREVENTION
If lifestyle modification is ineffective or inappropriate offer statin treatment.
Atorvastatin $\mathbf{2 0 m g}$ daily

## Current \% of Patients with a Qrisk >20\% on Lipid Lowering Therapy

Percentage of patients aged 18 and over with no GP recorded CVD and a GP recorded QRISK score of $\mathbf{2 0 \%}$ or more, on lipid lowering therapy


NEY Breakdown

Mortality Profile

Data view
Compare areas

Q
Geography
Region in England

- Topic $\boldsymbol{\nabla}$

Premature mortality


## Indicator

$\rightarrow$ Legend Benchmark $\rightarrow$ Moreoptions

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Areas All in England ( Display Table 
```

Show $99.8 \% \mathrm{Cl}$ values

| Area | Recent Trend | Count | Value |  | 95\% Lower Cl | 95\% Upper Cl |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| England | - | 37,669 | 76.0 | H | 75.3 | 76.8 |
| North West region | - | 6,175 | 92.8 | H | 90.5 | 95.1 |
| Yorkshire and the Humber region | - | 4,288 | 86.8 | H | 84.2 | 89.4 |
| North East region | - | 2,166 | 84.5 | $\mathrm{H}^{-1}$ | 81.0 | 88.1 |
| West Midlands region | - | 4,339 | 83.5 | H | 81.1 | 86.1 |
| East Midlands region | - | 3,674 | 81.9 | H | 79.2 | 84.6 |
| London region | - | 4,394 | 74.3 | H | 72.1 | 76.6 |
| East of England region | - | 3,733 | 65.0 | H | 62.9 | 67.1 |
| South West region | - | 3,622 | 64.6 | H | 62.5 | 66.8 |
| South East region | - | 5,278 | 63.1 | H | 61.4 | 64.8 |

Source: Office for Health Improvement and Disparities (based on Office for National Statistics source data)
Indicator Definitions and Supporting_Information

## Why invest in cardiovascular disease prevention

PHE estimates that optimising detection of risk factors for CVD and the uptake of anticoagulants, antihypertensives and statins in line with the ambitions, could prevent:


# 150,000 GVD events 

Over 10 years the societal return on investment is estimated to be $\mathbf{\Sigma 2 . 3 0} 0_{\text {mane }} \mathbf{\Sigma 1}$ spent including the value placed on improved health

## Summary

- We are in a better place than some - thank you
- Big challenges ahead
- Still need more work in deprived communities
- Do the basics well
- Clinical leadership is key
- Use data
- Prevention everywhere
- Simple Guidelines and Professional \& Public Education
- Work together across organisations
- Identify the high risk individuals early.


## Thank you

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