

Protecting and improving the nation's health

### A look back and a glimpse ahead -Risk reduction at scale and at pace From modest ambitions to implementation: Public Health England – A Journey

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#### **Conflicts of interest**

The presentation is done in total independence from the event organiser.

I am also lead for dementia at Public Health England and also Chief Clinical Officer of HIMSS ( a global "not for profit") based in the US.

I have no link of interest to declare with the topic I am presenting

#### From Research to Policy to the Coalface

•Whatever the outcomes and quality of evidence, there is no guarantee that anything will ensue, in fact the converse is the more common occurrence

•The delivery vehicle we assume will deliver, often fails to deliver

•Transparency and personalization may well be the most effective vehicles for delivering change

#### **Risk Factors**



#### **Dementia Risk Reduction: A Priority**

Around a **third** of Alzheimer's disease cases might be attributable to potentially modifiable risk factors.

A 20% reduction in risk factors per decade could reduce UK prevalence by 16.2% (300,000 cases) by 2050

## What's good for the heart is good for the brain

#### Dementia risk reduction timeline: England



#### consensus. Jointly published by PHE and the UK Health Forum, and endorsed by over 60 public health practitioners, policy makers, voluntary and community representatives, and researchers. as well as all four UK Health ministers, was clear that the evidence is "sufficient to justify considered action and further research on dementia risk reduction'.

**Blackfriars** 

From Evidence into Action. Public Health England (PHE) identified dementia as one of its seven priority areas with the ambition to reduce the incidence and prevalence of dementia amongst 65-74 year olds Dementia Programme Board

established

Partnership agreement signed with Alzheimer's Society on dementia risk reduction.

Work programme formally established in division

Stakeholder Engagement strategy developed

PHE centre network established

WHO Ministerial UK Conference on **Global Action** Against Dementia: Call for Action. The UK was recognised for its leadership in driving the global risk reduction agenda at the Healthy People March 2015 ministerial conference in Geneva. Over 90 countries signed up to a Call for Action which included dementia risk reduction.

aligned work program me with Devolved Nations on dementia risk reduction.

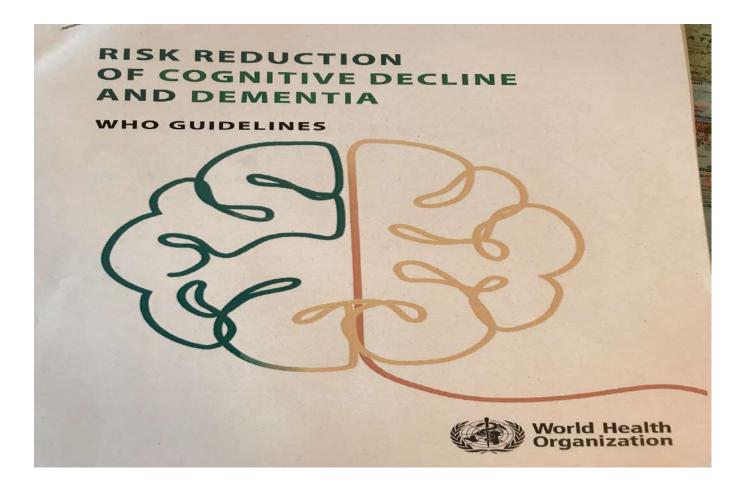
Published NICE guidance on mid-life approaches to delay or prevent the onset of dementia. disability and frailty in later life sets out the case for risk he reduction approaches

ΡM dementia Challenge 2020 Implement ation plan. Recognises dementia risk reduction as one of four key themes to addressed as a priority.

Dementia Risk Reduction messages included in NHS Health Check enabling healthcare professional s to provide dementia prevention information to people over 40 as part of their free NHS Health Check .

World Health Organisation publishes Dementia Risk Reduction Guidelines providing evidencebased recommendat ions on lifestyle behaviours and interventions to delay or prevent cognitive decline and dementia

# Global Risk Reduction Dementia - 14<sup>th</sup> May 2019



### **Raising Public Awareness**

## *'What's good for your heart is good for your brain'*

#### **External promotion**

- **Health Matters** on dementia (2016): a resource for public health professionals, brings together facts, figures and evidence of effective interventions
- Social Marketing activity Dementia Friends and One You Campaign
- NHS Health Check Expanded to include dementia risk reduction discussions with people in midlife, not just over 65s.
- Leaflets- NHS Health Check, Joint leaflet with ARUK
- **Ambassadors** for dementia risk reduction e.g. Angela Rippon videos for NHS Health Check and Health Matters
- Behavioural insights approach for drafting all outward facing material

**Ambition -** Establish **metrics** to indicate public awareness levels of dementia and prevention



https://www.youtube.com/watch?v=D965mN7uwY8

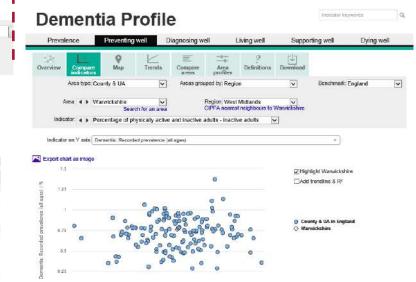
#### Enhancing the Data and Evidence

#### Dementia Intelligence Network

| )emen  | tia Prof             | ile                         |                          | Indicator       | keywords   |
|--|----------------------|-----------------------------|--------------------------|-----------------|------------|
| Prevalence   | Preventing well      | Diagnosing well             | Living well              | Supporting well | Dying well |
| erview Compare   | Map Tren             | is Compare An<br>areas prof | a Definitions            | Pownload        | 1          |
| Area type: C<br>Area: ৰ 🕨 N                                |                      |                             | Sub-region<br>South West | Benchmar        | k: England |
| Compared with benchmark<br>• a note is attached to the val | Lower Similar Higher | Not compared                |                          |                 |            |

For the first time, we have made available, in one place, a suite of healthy behaviour dementia risk indicators through the Dementia Intelligence Network

UK piloted the WHO global observatory, to support better data globally



Ambition - Continue to develop dementia data and metrics with a focus on developing ways to evaluate meaningful care, building on existing 'Patient Experience Measures', and data relating to carers

Compare

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on Productive Healthy Ageing and

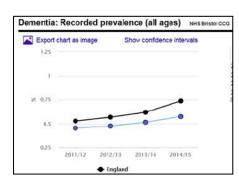
Providing leadership in bringing

researchers together

Dementia:

### Building the evidence

#### https://fingertips.phe.org.uk/profile.org.up/mental-health/profile/dementia







#### Get the data

Download the data as an Excel spreadsheet for CCG in England

CCG in South West region



| <b>9</b> |
|----------|
| Мар      |



| De | mentia: | Recorded | prevalence | (aged 65+) | Sep 2015  |
|----|---------|----------|------------|------------|-----------|
|    | monda.  | nooonaoa | provenoneo | (agoa oo.) | ash rain. |

| Area                      | Count   | Value |      |
|---------------------------|---------|-------|------|
| England                   | 413,339 | 4.27  | )    |
| South West region         | 38,557  | 3.97* |      |
| NHS North Somerset CCG    | 2,260   | 4.72  | H    |
| NHS Bristol CCG           | 2,825   | 4.53  | H    |
| NHS Gloucestershire CCG   | 5,367   | 4.25  | H    |
| NHS Bath And North East S | 1,557   | 4.21  | H    |
| NHS Wiltshire CCG         | 4,144   | 4.14  | H    |
| NHS Somerset CCG          | 5,176   | 4.09  | H    |
| NHS Swindon CCG           | 1,349   | 3.98  | 14-1 |
| NHS South Gloucestershire | 1,864   | 3.95  | H-I  |
| NHS Northern, Eastern And | 7,579   | 3.85  | н    |
| NHS South Devon And Torba | 2,722   | 3.82  | H    |
| NHS Kernow CCG            | 3,714   | 3.03  | H    |
|                           |         |       |      |

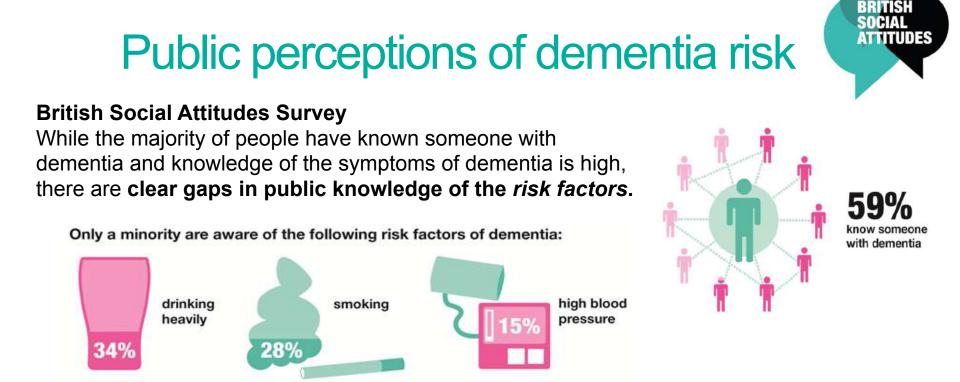
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| Indicator   | Period | Bristol |       | Region | England | England |       |         |
|---|--------|---------|-------|--------|---------|---------|-------|---------|
| manator   |        | Count   | Value | Value  | Valuo   | Lowest  | Range | Highest |
| Directly Age-Standardised Rate of Mortality:<br>People with dementia aged 20+ | 2013   | 508     | 194.2 | 173.5  | 187.2   | 104.0   |       | 362.8   |
| Directly Age Standardised Rate of Mortality:<br>People with dementia aged 65+ | 2013   | 503     | 774   | 690    | 746     | 419     | Q     | 1,461   |
| Deaths in Usual Place of Residence: People with dementa aged 55+              | 2013   | 382     | 76.2% | 75.8%  | 66.6%   | 25.0%   |       | 83.4%   |
| Place of death - care home: People with<br>dementia aged 65+                  | 2013   | 322     | 64.0% | 67.D%  | 58.6%   | 19,5%   | 0     | 77.0%   |
| Place of death - hospital: People with dementia<br>aged 65+                   | 2013   | 111     | 22.1% | 23.6%  | 32.6%   | 15.5%   |       | 66.2%   |
| Place of death - home: People with dementia aged 65+                          | 2013   | 60      | 11.9% | 8.1%   | 7.4%    | 1.9%    | 0     | 17.2%   |



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•More than a quarter (28%) of the British public is unable to identify any potentially modifiable risk factor for developing dementia

Just 2% can identify all the health and lifestyle factors that can increase risk of developing dementia
52% choose dementia as either their first, second or third priority from a list of health conditions for doctors and scientists to try to prevent. 12% see dementia as the highest priority for prevention.
Older people are more likely to agree that there is nothing anyone can do to reduce their risk of developing dementia: 33% of those aged 65 and over said this compared with 26% of those under 65.

#### The aspiration – Productive Healthy Ageing

To change the way people think about ageing so that increasing longevity with good health is viewed as the norm for the majority of older people, accompanied by the many opportunities that older people can be productively engaged with, to contribute to community/society, and to have a purpose in life.

### **Dementia Risk Reduction & Multi-Morbidity**

| £99  | 5m  |
|--|---|
| Untreated comorbidities<br>dementia cost the UK he<br>£377m due to diabetes, £<br>infections and £502m due | alth and care system<br>116m due to urinary |
| Alzheimer's<br>Research  | (i) (i)                                     |

People living with dementia who are over 65 have on average four comorbidities, while people without dementia have two on average.

Four of the five **most common comorbidities** people living with dementia are admitted to hospital for in the UK are **preventable** conditions: a fall, fractured hip or hip replacement, urinary infection and chest infection.

PHE Report on dementia & co-morbidities due for publication in Summer 2019

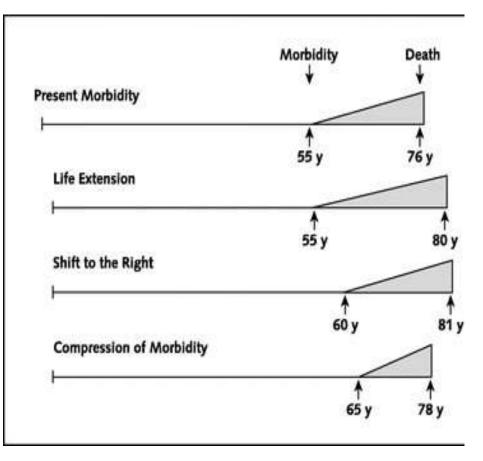
Source: ARUK & Scrutton, J and Brancati, CU (2016); Dementia and comorbidities; Ensuring parity of care from The International Longevity Centre supported by Pfizer

# Dementia Risk Reduction & Productive Healthy Ageing



#### Compression of Morbidity to Disease free life years

- James Fries (Stanford NEJM 1973)
- Life expectancy now increasing more slowly but the "extra years" not healthy
- Male and female differences in life expectancy narrowing with women having greater increase in unhealthy years and HLE remaining static
- Marked socio economic differences in HLE from 3.3 years for a woman aged 65 in poorest areas as against 16.7 years in affluent ones



#### Further interventions to enhance Dementia RR

•Managing Social Isolation pays dividends (R.O.I. of £1.26 over 5 years for every £1 spent) *Commissioning Effective Interventions 2017 – London School of Economics* 

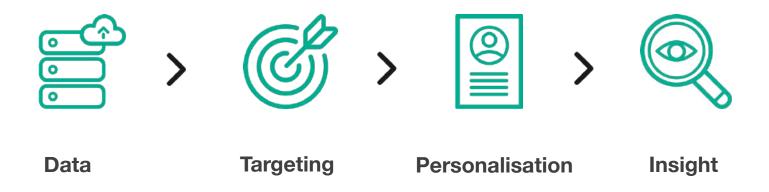
•Promoting Salutogenic approaches (Antonovsky 1946)

•Instituting "Patient Activation" programmes to encourage people to better manage their health

•Utilise personalised digital interventions to better target healthy messaging and reduce inequalities

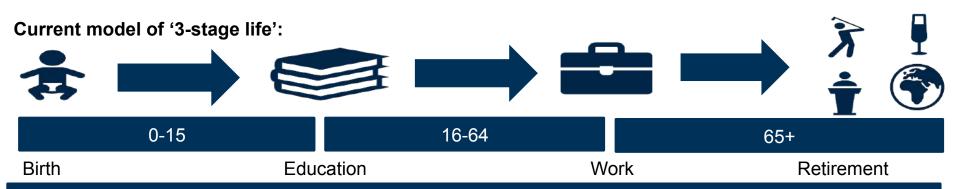
#### **The Future**

#### Four pillars of Precision Predictive Personalised Prevention



Combining these elements will allow us to better engage, activate, support and intervene

### Longer Lives require a different approach



#### How work might change in a 100-year life

- Current life structures, career paths, educational choices, and social norms are out of alignment with the emerging reality of longer lifespans
- The three-stage life of full-time education, followed by continuous work, and then complete retirement may have worked for our parents or even grandparents, but it is not relevant today.
- If longevity pushes back the age of retirement, likely that the traditional three-stage life will morph into multiple stages containing two, three, or even more different careers e.g. Impossible that a single shot of education administered in childhood and early adulthood will be able to support a sustained, 60 year career.
- Each of these stages could be different and traverse sectors— in one you might build financial success in another create a better work/life balance, another on making a social contribution or marked by sabbaticals to rest and recharge.

