

Exploring the Heart Age 2 tool

Martin Moth (NHS Choices)
Chair: Catherine Lagord (PHE)

Thursday 8th December 2016

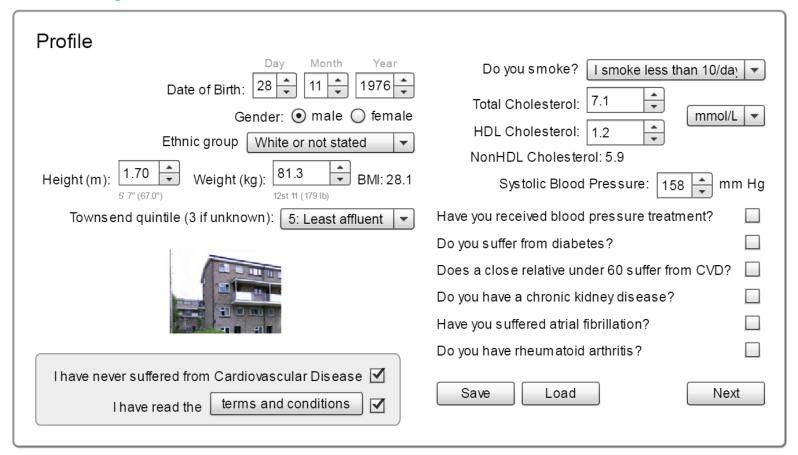


Background

- Original JBS3 tool used by clinicians
- Identified need for a public facing tool
- Tool developed in partnership with JBS3, UCL and BHF
- Methodology: based on JBS3 clinical tool and QRisk2, an open source tool built by ClinRisk



The parent.. JBS3



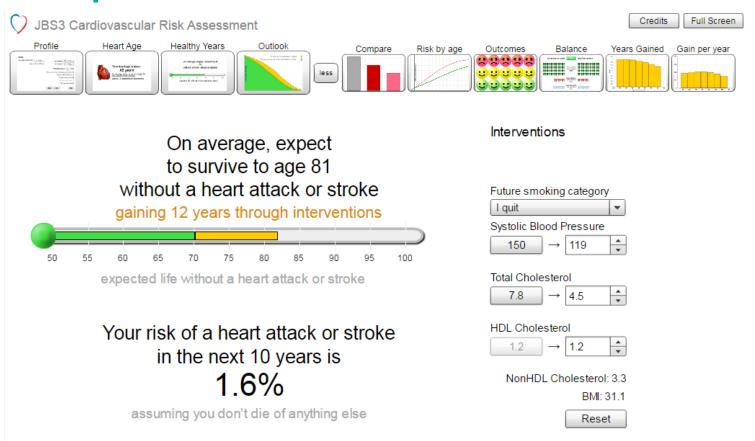


The parent.. JBS3





The parent.. JBS3





Start screen





Questions Screen 1

Check your heart age

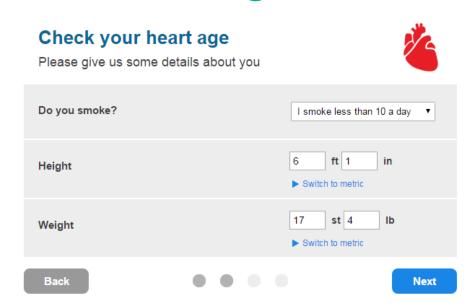
Please give us some details about you



Date of birth	28 ▼ 11 ▼ 1976 ▼ Day Month Year
Gender	Male Female
Ethnic group (i) Why is this important?	White ▼
Postcode (i) Why is this being asked?	e.g CB10 2PS
Do you have cardiovascular disease? (i) What is cardiovascular disease?	Yes No
Back	Next

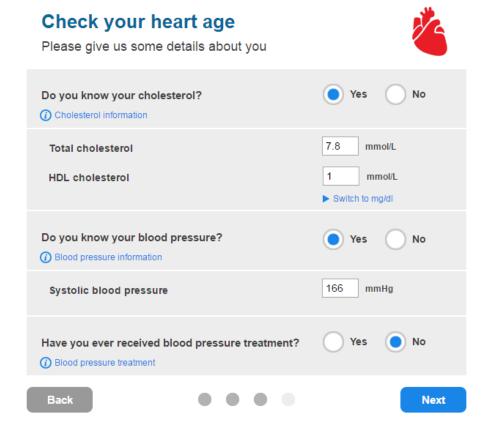


Questions Screen 2



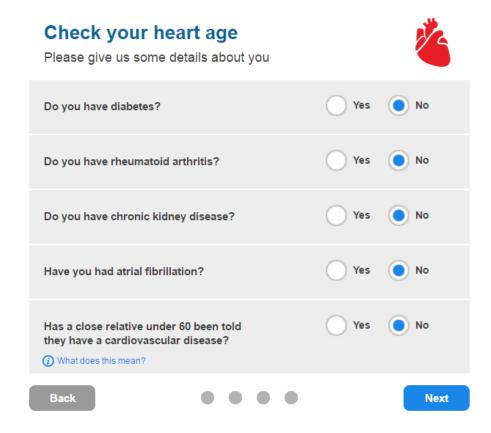


Questions Screen 3





Questions Screen 4





Your heart age is about compared to a person of the same age, gender and ethnicity without raised risk factors On average, someone like you can expect to live to the age of 69 without having a heart attack or stroke. On average, someone like you can expect to live to the age of 69 without having a heart attack or stroke. You have a 4.7% risk of having a heart attack or stroke in the next 10 years. Your heart age is higher than your actual age. You can lower it by making some simple changes to your diet and lifestyle. Check out the advice below



Results - full screen

Find out more about blood pressure



Cholesterol Ratio 8:1 Very high

Having very high cholesterol can have a serious effect on your health. It doesn't cause any symptoms itself but increases your risk of heart attack and stroke. The good news is that cholesterol levels can be lowered by having a healthy diet and being physically active. You may also need medication.

Find out more about cholesterol



Weight BMI 31.9 Obese

BMI is a measure of whether you're a healthy weight for your height. Having a BMI above 30 is classified as obese and being obese puts you at raised risk of health problems such as heart disease, stroke and diabetes. Losing weight will bring significant health improvements and could help with lowering your blood pressure and cholesterol levels.

Find out more about being a healthy weight

Looking after your heart

If you're aged 40 to 74 and you're not already being treated for cardiovascular disease, make sure you get a free NHS Health Check. You'll find out your blood pressure and cholesterol numbers and learn how healthy your heart is.



It's an opportunity to put right emerging problems and get personalised advice on keeping yourself healthy and active.

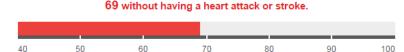
Read more about the NHS Health Check.

Back

Start again



Your results Your heart age is about compared to a person of the same age, gender and ethnicity without raised risk factors On average, someone like you can expect to live to the age of



You have a 4.7% risk of having a heart attack or stroke in the next 10 years.



Your heart age is higher than your actual age. You can lower it by making some simple changes to your diet and lifestyle.

Check out the advice below

 Drop down option for further info



Smoking

I smoke less than 10 a day

Stopping smoking is the single biggest change you can make for your health. One year after stopping, your heart attack risk is half that of a smoker.

You don't have to go cold turkey alone. There is a wealth of information and support to help you stop.

► Get help with quitting



Blood pressure 166 High

Your systolic blood pressure is 166. If your doctor or nurse does not know about this, make an appointment to see them in the next month to let them know.

Known as the "silent killer", high blood pressure rarely has obvious symptoms but left untreated, it increases your risk of heart attack or stroke.

The good news is, it can be brought under control through lifestyle changes such as losing weight, reducing the amount of salt you eat, exercising regularly and cutting back on alcohol and caffeine. You may also need medication.

Find out more about blood pressure



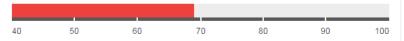
Your results

Your heart age is about

compared to a person of the same age, gender and ethnicity without raised risk factors

50

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▼ Get help with quitting



SMOKEFREE MIS



Get help NOW to stop smoking Go to the Smokefree website for lots of help and advice

Take the British Heart Foundation's 10 minute challenge to quit smoking

losing weight, reducing the amount of salt you eat, exercising regularly and cutting back on alcohol and caffeine. You may also need medication.

► Find out more about blood pressure





• Links to Choices 16
or BHF content Six practical, smoking

- Controversial nature meant good coverage in national press
- 420k
 completed
 journeys in a
 single day

The Telegraph

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Official NHS calculator predicts when you will have a heart attack

Take the test: New NHS tool estimates how long you will live until having a heart attack or stroke promises a 'wake-up call' to shock Britons into changing lifestyles













A man holds his chest as he suffers from a heart attack (posed by model) Photo: Alamy



By Laura Donnelly, Health Editor 10:00PM GMT 08 Mar 2015

У Follow







Large rat climbs on sleeping commuter



Teen pepper-spra Trump rally



Disabled greatgrandfather denied stairlift and forced to



Elderly wombat rescued after being attacked



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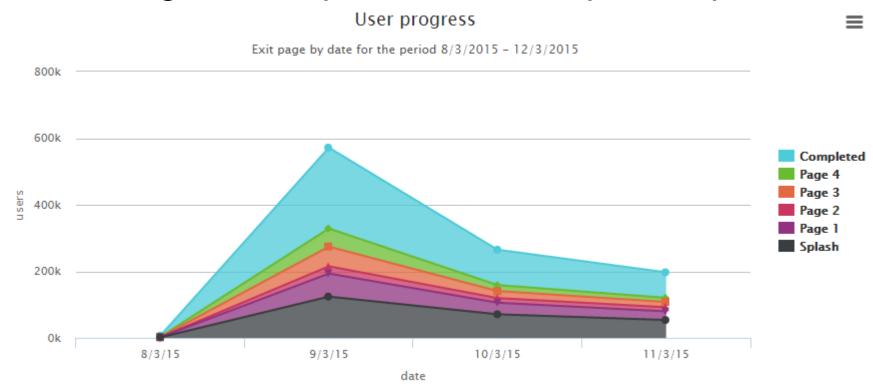


10 reasons to buy private health insurance



Main findings

Overall good completion ratio despite dropouts





My Heart Age - Version 1



Open Access Research

BMJ Open Online self-assessment of cardiovascular risk using the Joint British Societies (JBS3)-derived heart age tool: a descriptive study

Riyaz S Patel,^{1,2} Catherine Lagord,³ Jamie Waterall,³ Martin Moth,⁴ Mike Knapton,⁵ John E Deanfield^{1,2}

To cite: Patel RS, Lagord C, Waterall J, et al. Online selfassessment of cardiovascular risk using the Joint British Societies (JBS3)-derived heart age tool: a descriptive study. BMJ Open 2016;6: e011511. doi:10.1136/bmiopen-2016-011511

 Prepublication history and additional material is

ABSTRACT

Objective: A modified version of the Joint British Societies (JBS3) 'heart age' tool was introduced online to broaden access to personalised risk assessment to the general population and encourage participation in the National Health Service (NHS) Health Check programme. This study reports on its early uptake and the profiles of those who used the self-assessment tool to determine their own cardiovascular risk.

Design: Observational, retrospective analysis of online tool use.

Strengths and limitations of this study

- The first study on the uptake and use of the Joint British Societies (JBS3)-derived 'heart age' tool by members of the public in the UK for selfassessment of cardiovascular disease (CVD) risk.
- Academic and public health collaboration with full access and analysis of anonymised online data for over 500 000 users, collected through the National Health Service (NHS) Choices

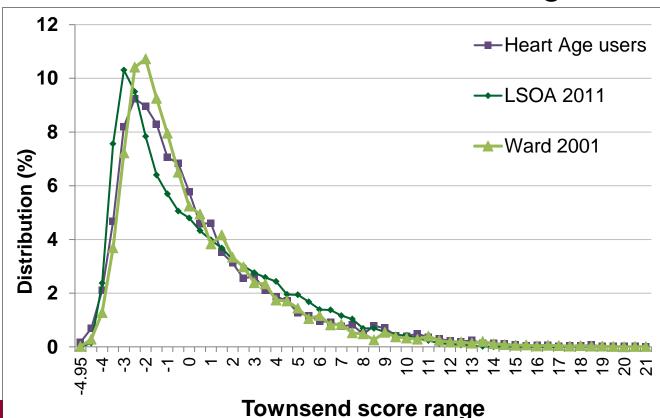
BMJ Open 2016;6: e011511. doi:10.1136/bmjopen-2016-011511



Who is using the tool?

• in 5 months, 500,000+ calculated their heart age

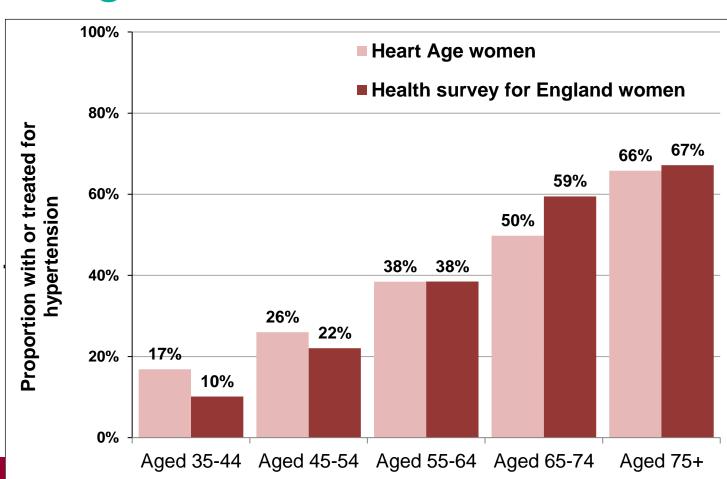
broadly resembled England population ...





Who is using the tool?

broadly resembled England population

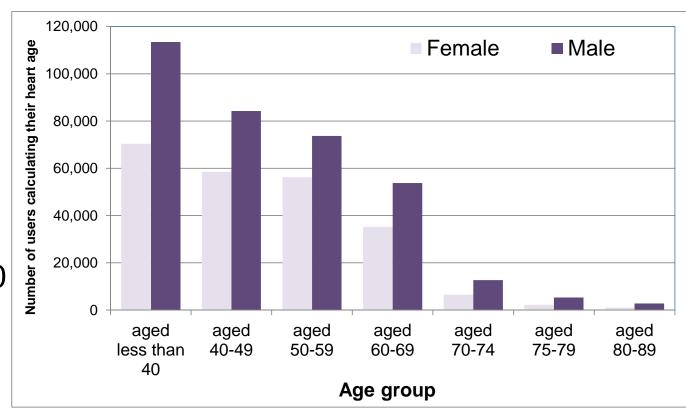




Who is using the tool?

..more men61%

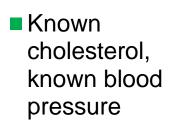
..younger2/3 aged 40-7430% less than 40



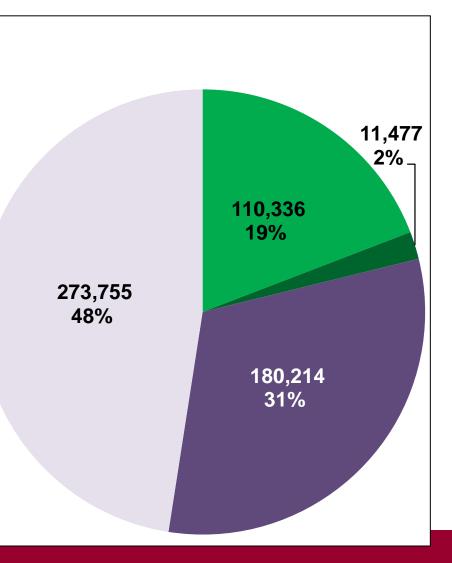


Did users know their numbers?

- 50% knew BP
- 1 in 4 knew cholesterol



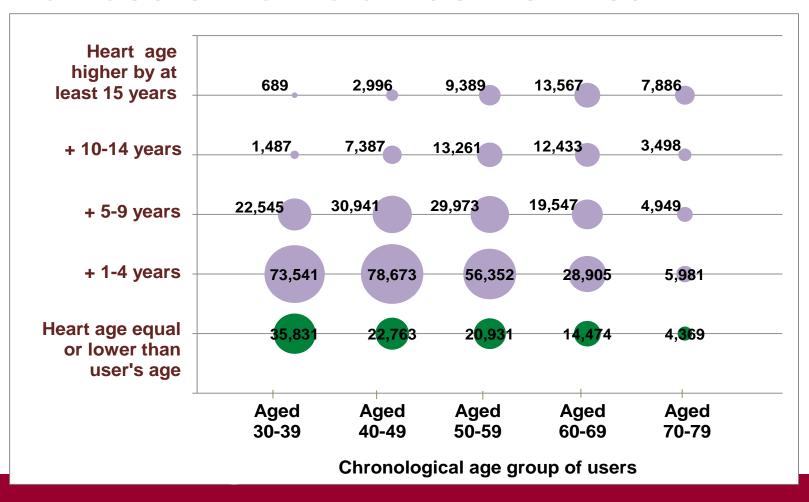
- Known cholesterol, unknown blood pressure
- Known blood pressure, unknown cholesterol
- Unknown blood pressure, unknown cholesterol





Half million users: how old was their heart?

4 in 5: older heart





What users did next...

only 2.8% accessed online resources provided



My Heart Age - Version 2

Steering group:

- PHE
- NHS Choices
- BHF
- UCL/JBS3
- Behavioural Insight team

Check your heart age

How healthy is your heart?

What this self-assessment does:

- Tells you your heart age compared to your real age
- Explains why it's important to know your blood pressure and cholesterol numbers
- Gives advice on how to reduce your heart age

Start

Full terms and conditions can be read here



This tool is a collaboration between NHS Choices, Public Health England and the British Heart Foundation. More information about partners

Full credits can be read here

www.nhs.uk/myheartage



- Improved flow/ structure
- Fewer words
- More bullet points
- All questions on a single screen
- More focussed results page
- Intervention toggles (what if?)
- Easier syndication
- Better stats/tracking





How healthy is your heart? Use this tool to find out if your heart age is higher or lower than your actual age.

Anyone over 30 can use the tool, even if you don't know your blood pressure and cholesterol. However, without these numbers, your result will be an estimate and we recommend you get tested to get an accurate result.

Start

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JBS3
Joint British Societies for the prevention of cardiovascular disease

This tool is a collaboration between NHS Choices, Public Health England and the British Heart

Transport Programmation about partners

Full credits can be read here

Check your heart age

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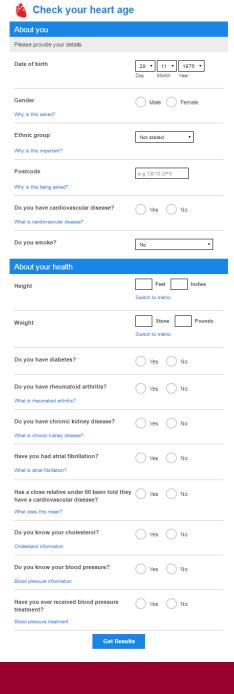
New

Old



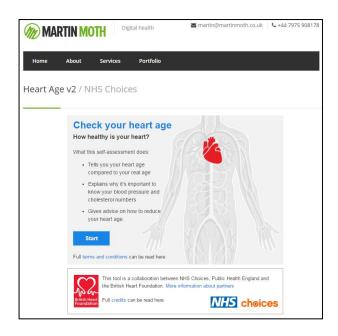


- All questions on a single, scrollable screen
- Suits desktop and mobile (mobile now 60% of all Choices traffic)
- Easier to use, less dropout





 Easier to embed tool within another website







- Longer, but..
 - Easier to read and understand
 - No 'walls'
 - Improved click-thru

Your systolic blood pressure is 166. If your doctor or nurse does not know about this, make an appointment to see them in the next month to let them know.

High blood pressure rarely has noticeable symptoms but left untreated, it increases your risk of heart attack or stroke.

The good news is, it can be brought under control through lifestyle changes such as

- · losing weight
- · reducing salt intake
- · exercising regularly
- cutting back on alcohol and caffeine
 So start now and follow the links below. You may also need medication.

Find out more about blood pressure



Symptoms, causes, diagnosis and treatment of high blood pressure (hypertension)



Jane's story of her shock high blood pressure result came to light during her NHS Health Check



Learn how small lifestyle changes can help lower your blood pressure

Looking after your heart

You can get a free NHS Health Check if you're aged 40 to 74 and not already being treated for cardiovascular disease.



You'll find out your blood pressure and cholesterol numbers and learn how healthy your heart is.

It's an opportunity to put right emerging problems and get personalised advice on keeping yourself healthy and active.

Read more about the NHS Health Check.

Back

Start again

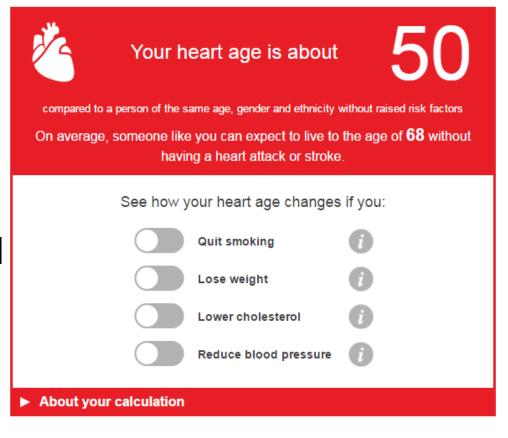


- Longer, but...
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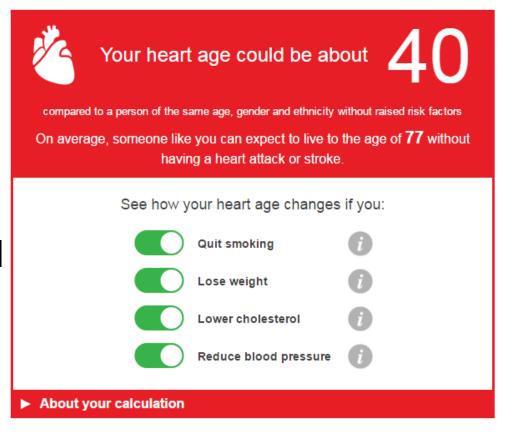


- Interventions
 - What if I?
 - Quit smoking
 - Lose weight
 - Lower cholesterol
 - Reduce BP





- Interventions
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Tools can easily be...

- Added to your website (embed code)
- Linked via a poster or paper leaflet (QR code right)
- Tracked as a 'campaign'
- nhs.uk/myheartage is your most direct route





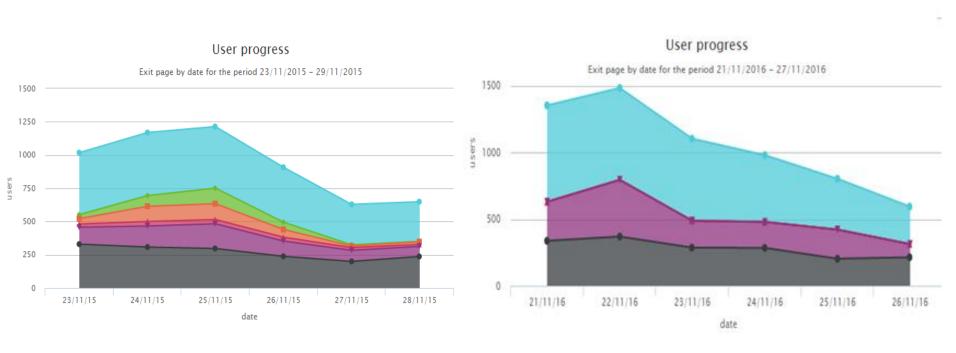
An example..





Added QR code and link text





1 week in Nov 2015 2418 completed

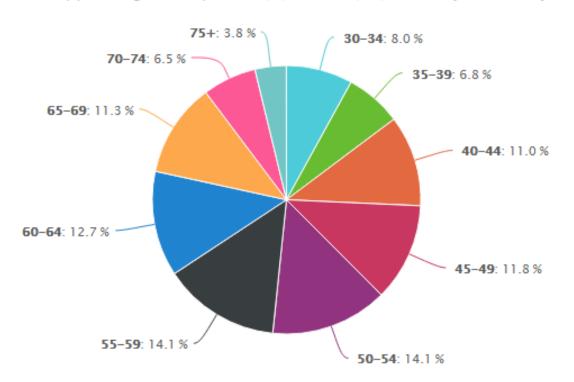
1 week in Nov 2016 3185 completed



First findings – age group

Age

By percentage for the period 28/9/2016 - 28/11/2016 sample size: 132,388

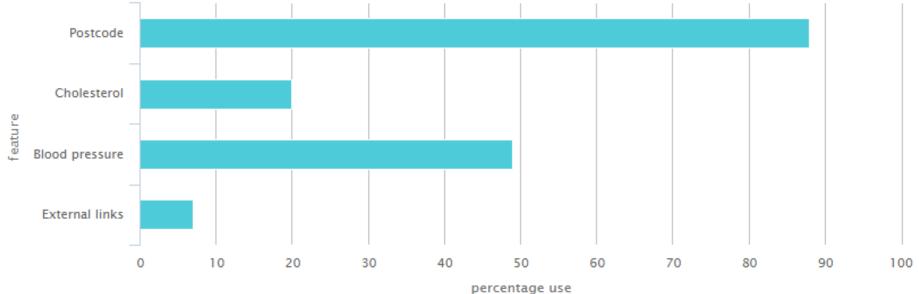




First findings – feature usage

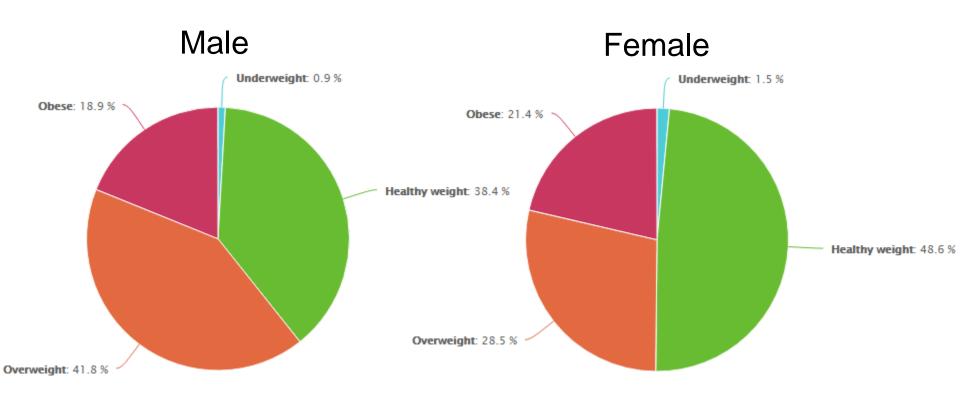
Feature usage (completed)





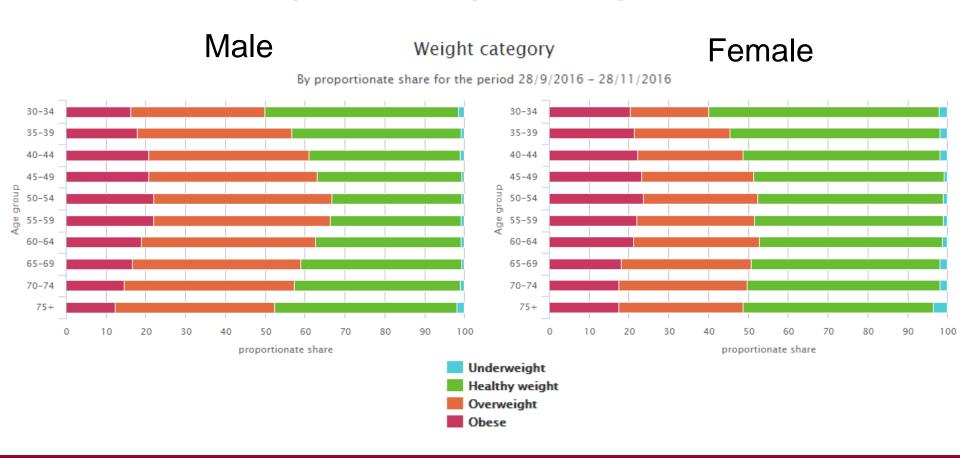


First findings – weight by gender

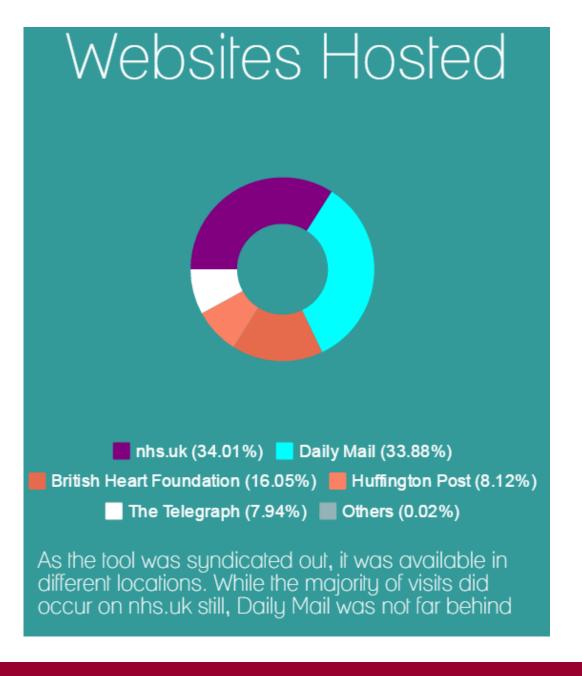




First findings – weight by gender







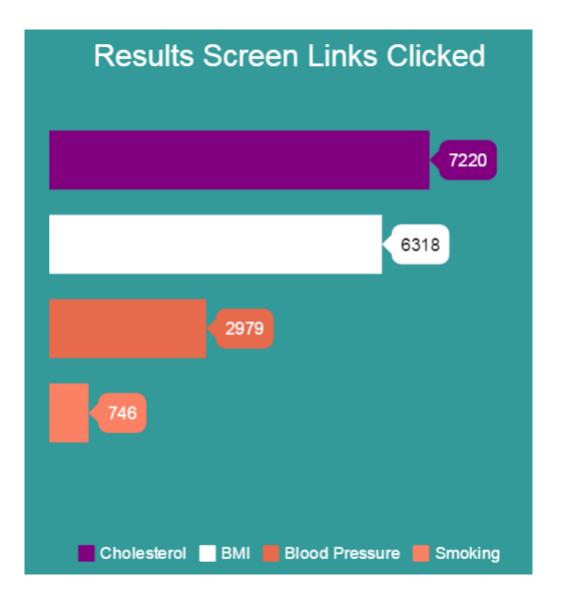


Intervention Sliders Clicked



- lower cholesterol (33.31%) reduce blood pressure (31.46%)
 - lose weight (30.08%) quit smoking (5.15%)
- Cholesterol was the main draw for users clicking sliders or going onto other content on Choices
- Smoking is the lowest used in both sections 91% of tool users said they did not smoke







Contact us

Martin Moth: martin.moth@nhs.net Digital Tools Lead, NHS Choices

Catherine Lagord: catherine.lagord@phe.gov.uk Information analyst, PHE