NatCen
Social Research that works for society

Update on the Scottish Health Survey

Health Survey Users Group

July 2015

Agenda

Background	→	Where have we come from and where are we now?
Bio Measures	→	How do we measure waist and blood pressure?
	→	Do the measurements work?
New Content	→	What is new on the study?
	→	What is new in dissemination?
Using the Data	→	How has data been used and how to access it?

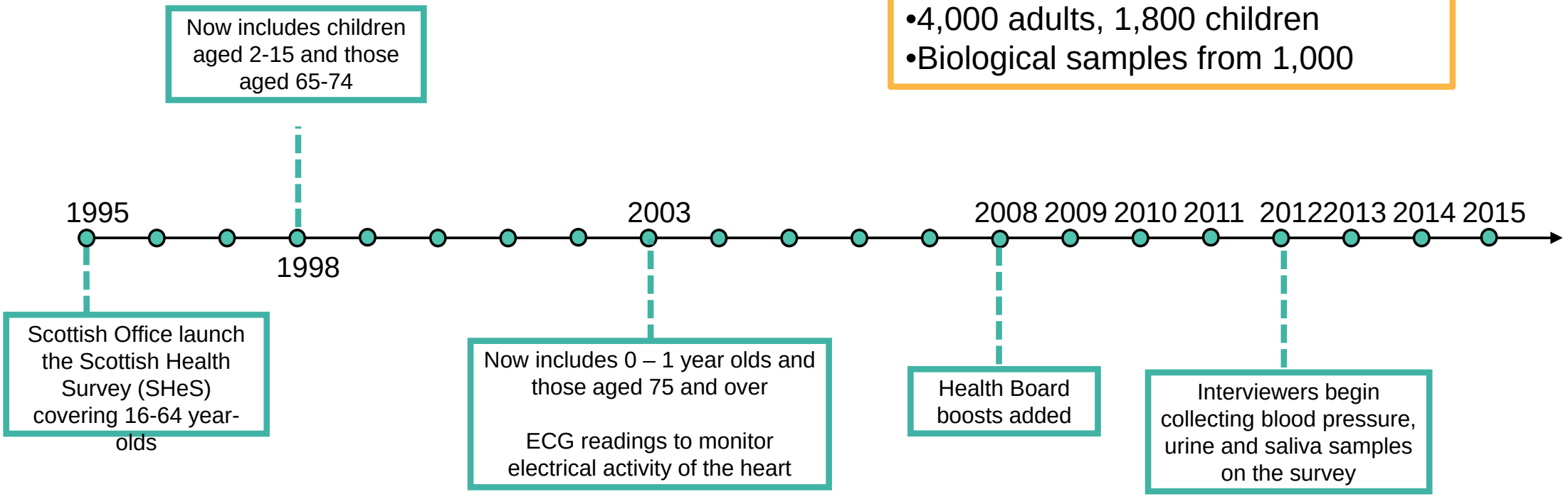
NatCen Social Research

Background

What is the history?

Basic Methodology

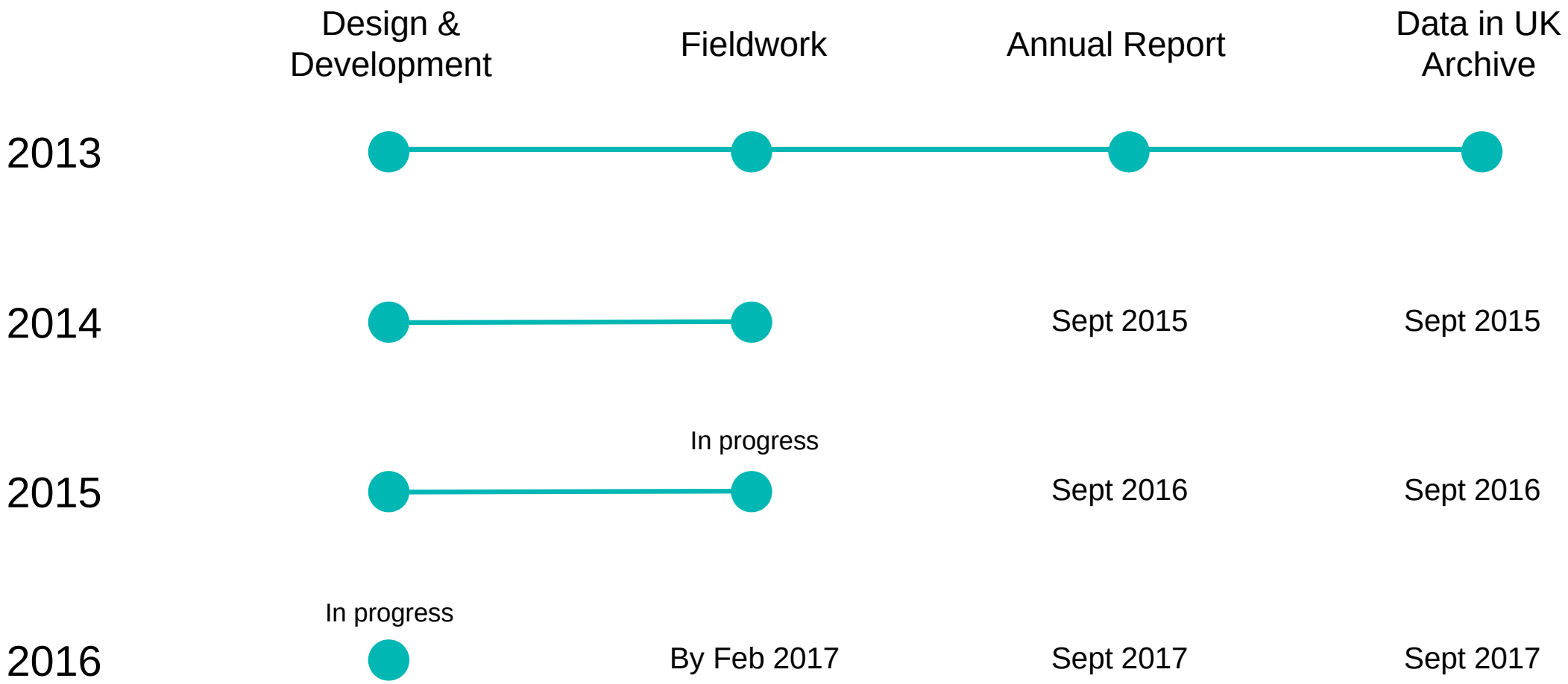
- Continuous survey
- Sample from PAF
- 4,000 adults, 1,800 children
- Biological samples from 1,000



2015 = Year SHeS took place

NatCen Social Research

Where are we at present?



NatCen Social Research

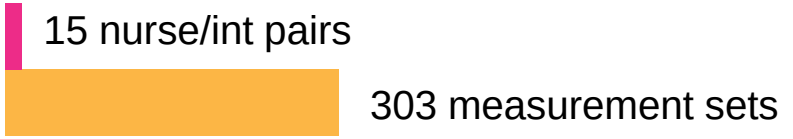
Bio Measurement

Waist Measurements

The Issue: Reducing cost but maintaining quality of waist measures

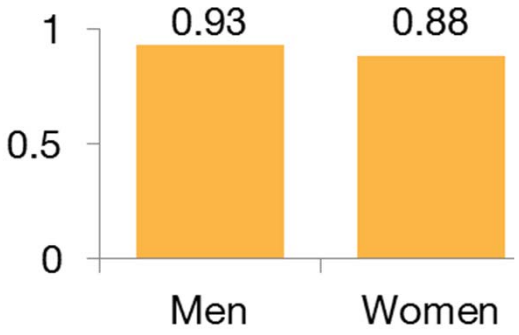
- Interviewers taking waist measurement
- New less invasive protocol: measuring midpoint around navel rather than traditional lower rib/iliac crest midpoint

- Joint pair visits with nurse & interviewer (minimise gap between measurements)



- Nurses using both protocols

R^2 nurse/interviewer measures

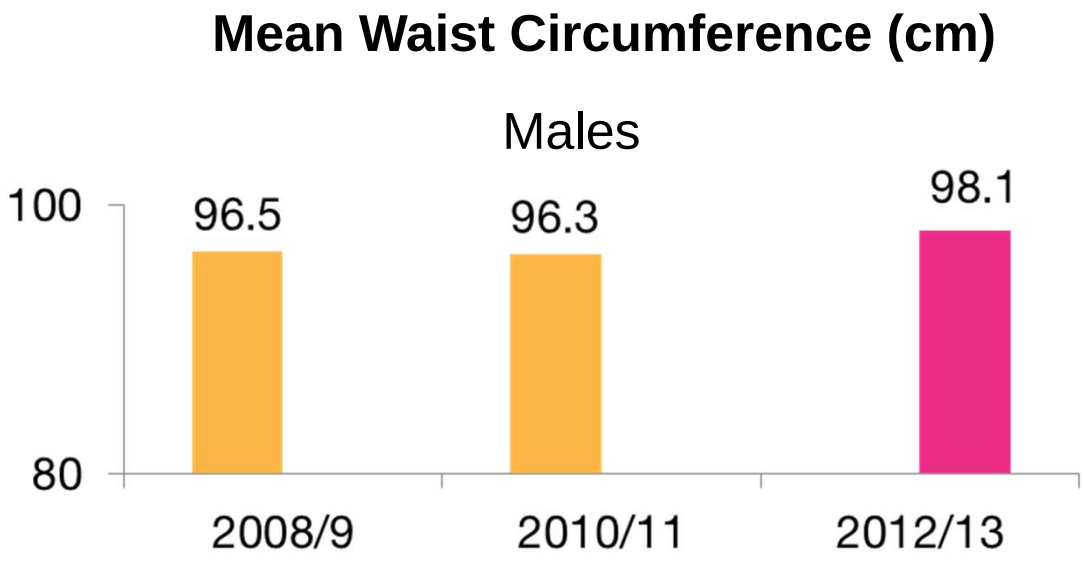


Results also showed little difference when interviewers & nurses both using their protocols

- Formula for nurse-adjusted figures to allow comparability
- Allows us to predict reasonably accurately what results would have been from nurses

NatCen Social Research

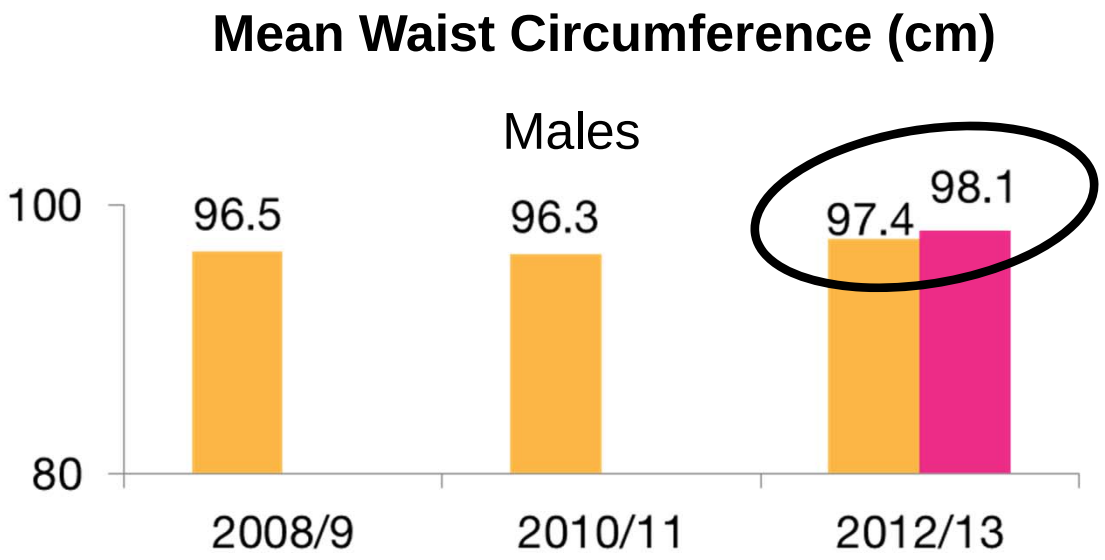
What Are Results Showing?



= Nurse/nurse equivalent
= Interviewer

NatCen Social Research

What Are Results Showing?



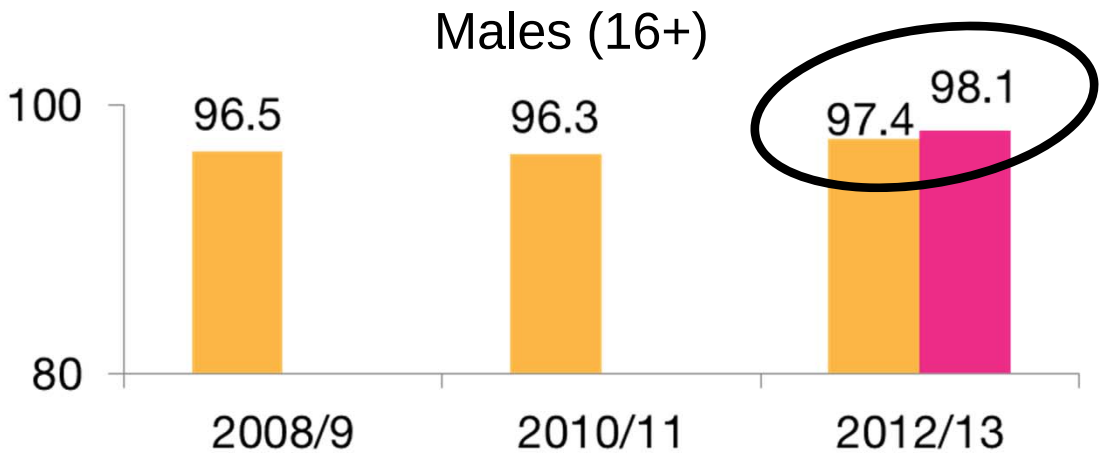
Little difference for males in mean waist circumference between interviewer and nurse equivalent measure

= Nurse/nurse equivalent
= Interviewer

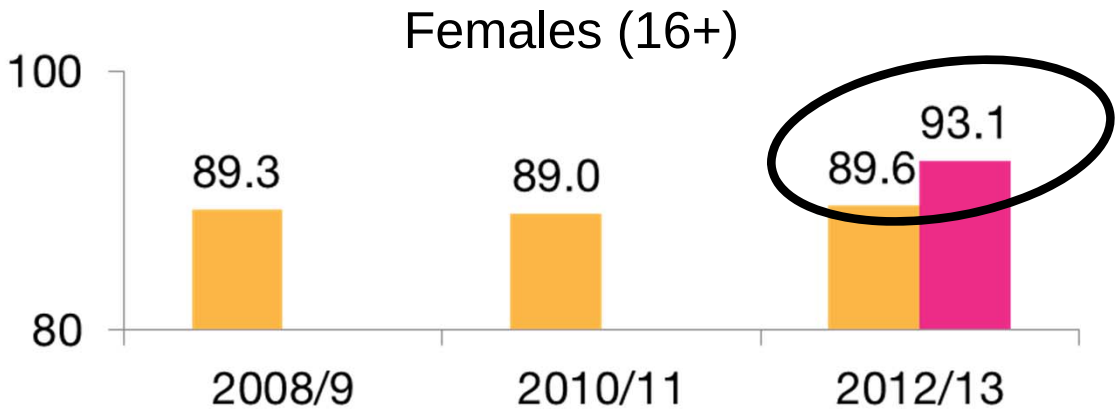
NatCen Social Research

What Are Results Showing?

Mean Waist Circumference (cm)



Little difference for males in mean waist circumference between interviewer and nurse equivalent measure



Slightly more of a difference for female measurements

= Nurse/nurse equivalent
= Interviewer

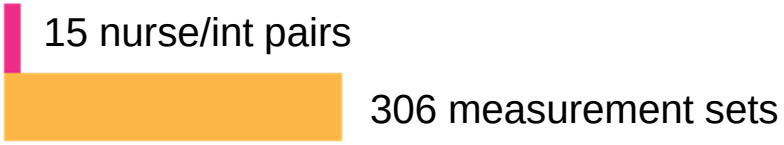
NatCen Social Research

Blood Pressure Measurements

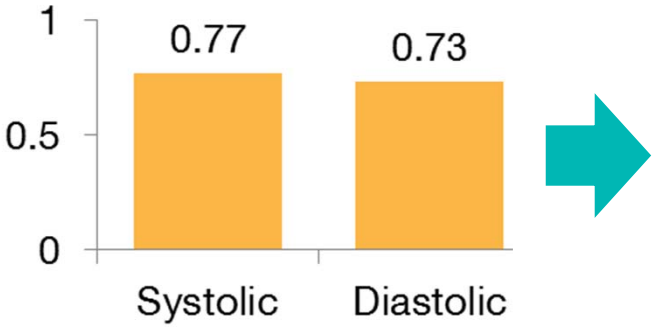
The Issue: Reducing cost but maintaining quality of blood pressure measures

- Interviewers taking blood pressure
- Exact same protocol as nurses, with same exact approach

- Joint pair visits with nurse & interviewer (minimise gap between measurements)
- Each taking three readings



R^2 nurse/interviewer measures



Good fit although some evidence of slightly lower readings for interviewers

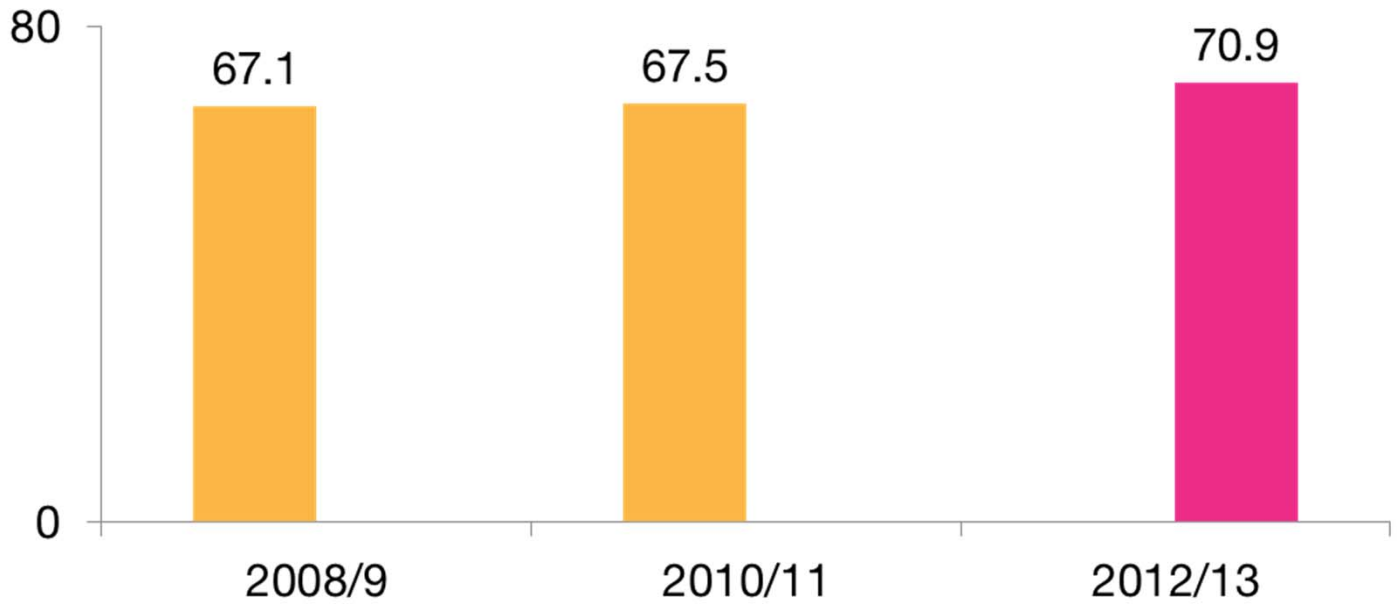
- Formula for nurse-adjusted figures to allow comparability
- Allows us to predict reasonably accurately what results would have been from nurses

NatCen Social Research

What Are Results Showing?

% Normotensive

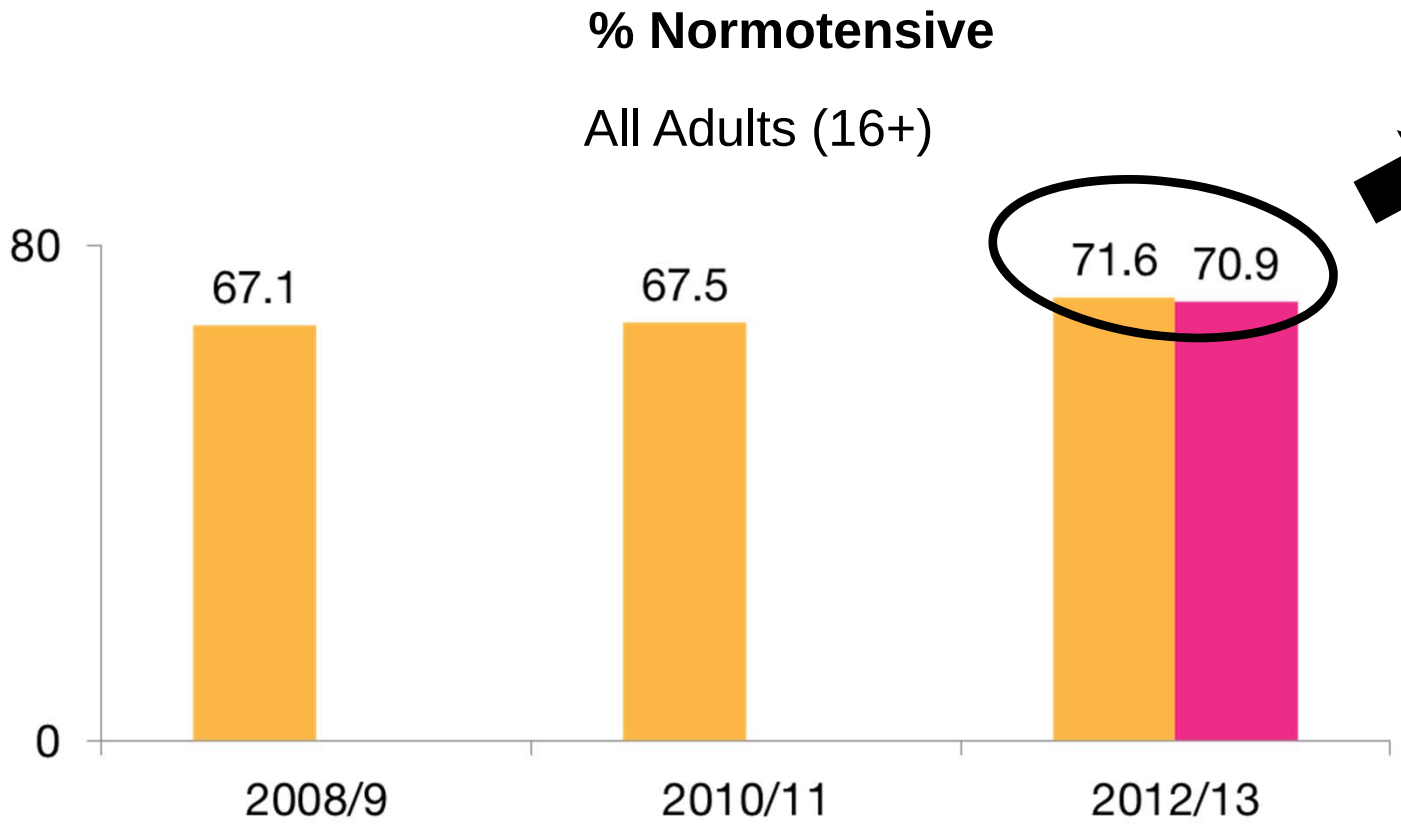
All Adults (16+)



= Nurse/nurse equivalent
= Interviewer

NatCen Social Research

What Are Results Showing?



Marginal difference between interviewer and nurse equivalent. However, increase in normotension over time

= Nurse/nurse equivalent
= Interviewer

NatCen Social Research

New Content

Key New Questions

2014

2015

Commonwealth Games

- Legacy
  - People getting active
  - Usage of available facilities

Electronic Cigarettes

- Ever used
- Use nowadays
- Added to list of NRT products used in quit attempt

Cosmetic Procedures

- Treatments ever had (inc, laser eye surgery, cosmetic dental etc)

NatCen Social Research

Dissemination

Core Dissemination

Main Report

Publicity via TV, Press, Internet

New Approach

New Summary Report

Scottish Government Internal “Communication Analysis” Award runner-up

NatCen Social Research

Using the Data

How Has Data Been Used?

Issues

Data Linkage	“Use of record-linkage to handle response and improve alcohol consumption estimates in health survey data: a study protocol” Gray, L et all, *BMJ*
Heart Murmurs	“Heart murmur and dysrhythmia are associated with accidents leading to poor mental health and cognition” Shiue, I, *International Journal of Cardiology*
Multi-morbidity	“Widening our gaze on multimorbidity – exploring the relative contributions of short and long-term conditions to poor physical and mental health outcomes in working age adults” Bromley C, *J Epidemiol Community Health*
Diabetes	“Diabetes mellitus and mortality from all-causes, cancer, cardiovascular and respiratory disease: evidence from the Health Survey for England and Scottish Health Survey cohorts” Gordon-Dseagu VLZ et al, *Journal of Diabetes and Its Complications*

How To Use Linked Data?

What Linked Data Is Available?

Consent currently from around 85% of participants

We ask consent from all participants (adults and children) for linkage to NHS patient records:

- In-patient and out-patient visits to hospital, length of stay, waiting time etc
- Specific medical conditions, e.g. cancer, heart disease, diabetes
- Registration with practitioner, date and cause of death

How to Access?

Contact Information Services Division (part of NHS Services Scotland)

Thank you

If you want further information or would like to contact us

Diarmid Campbell-Jack, Research Director, ScotCen, 0131 240 0215,

Email: Diarmid.Campbell-Jack@scotcen.org.uk

Stephen Hinchliffe, Senior Researcher, ScotCen, 0131 240 0214,

Email: Stephen.Hinchliffe@scotcen.org.uk

Julie Landsberg, Project Manager, Scottish Government,

Email: Julie.Landsberg@scotland.gsi.gov.uk

Visit us online, www.scottishhealthsurvey.org

NatCen
Social Research that works for society