

Biometric Measurements

Including how huffing and puffing can be captured in a Blaise instrument.



Contents

Biometric surveys

What they are

How they differ

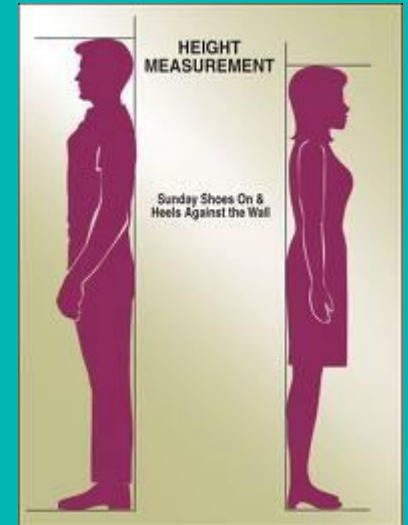
Spirometry / Lung function

Integration with Blaise instrument



NatCen Biometric surveys

- HSE - Health Survey for England
- Scottish Health Survey
- ELSA - English Longitudinal Survey of Ageing
- NDNS – National Dietary and Nutrition Survey
- Understanding Society



Biometric data collection – what's special

- NatCen uses visiting nurses
- Exploring the use of interviewers (iBio)
- Equipment
- Instrument mainly a protocol
- Follow-up or freestanding





What do we measure?



Height / weight

Demispan

Waist / hip circumference

Blood pressure

Lung function

Grip strength

Physical fitness



Blood

Urine

Saliva

Hair

What do we collect?



Spirometry – how NatCen found a solution



- Challenges with bio measurements
 - Split attention: laptop / equipment / respondent
 - Heavy / bulky equipment
 - Transcription of data
 - Quality control

Opportunity – HSE 2010

- Lung function back
- Must replace equipment
- New products on market



What we liked

- Ease of use
- Lightness / portability
- Accuracy
- More measurements
- Quality control / predicted results



Software adjustments

- From free-standing to integrated
- 'Command line' functionality
- Access to data
- Lock down options

```
while( n < (document.
{
    n++;
    calc = ev
    i++
    i++
```

Making it work with Blaise

- Making data available to the software
- Launch the software
- Get the results of the session
- Feed back data to DEP
- Create a return of data file





How did we achieve it?

- Interact with a 3rd party software
- Blaise 4.8 allows for alien Manipula procedures
- Alien procedure in the data model
 - Import and export parameters
 - Controlling the checking mechanism

What did we learn?

- It worked
- Need good relationship with provider
- Training / monitoring



Thank you

If you want further information or would like to contact the author,

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