



# Growing Up in Scotland

The title 'Growing Up in Scotland' is centered in a large, bold, black font. The text is overlaid on a white rectangular background. Silhouettes of children in various active poses are integrated with the text: a child sitting on the left, a child performing a handstand above the word 'Up', and a child walking on the right.

Topics, themes and standard  
measures

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# Overview

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- Study content
- Useful indicators and outcome measures
- Key analysis variables
- Administrative data





# Study content

# 1.



# Sources of information

10mths

BC1 &  
BC2

Age 2

BC1

Age 3

CC, BC1,  
BC2

Age 4

CC & BC1

Age 5

CC, BC1,  
BC2

Age 6

BC1

Age 8

BC1 (&  
BC2?)

P6

BC1 (&  
BC2?)

Main carer

Main carer

Partner

Main carer

Main carer

Main carer

Main carer

Main carer

Main carer

Interviews

Child

Child

Ch. height  
& weight

Ch. height  
& weight

Ch. height  
& weight

Ch. height  
& weight

Ch. height  
& weight

Cognitive  
assessmts

Cognitive  
assessmts

Cognitive  
assessmts

Health  
records

Health  
records

Health  
records

Health  
records

Health  
records

Health  
records

Health  
records

Health  
records

Pre-School  
details

Pre-School  
details

School  
records

School  
records

School  
records

School  
records

Obj.  
assessment

Linked admin

# Main interview: core topics

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- Household composition and family demographics
- Non-resident parents
- Parental support
- Parenting
- Childcare
- Child health and development
- Activities
- Education and employment
- Income and benefits
- Housing and accommodation





# Parental support

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- Grandparents
- Accessing and satisfaction with formal support
- Attitudes to formal support
- First port of call in emergency
- Ease of arranging ad hoc childcare
- Parenting classes
- Sources used for info on child health and behaviour



# Parenting

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- Discipline
- Risk and supervision
- Rules and routines
- Home 'chaos'
- Parent-child relationship



# Activities

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- Home-learning activities
- Physical activity
- Use and mediation of television, computers, gaming and other media/technology
- Clubs, groups and other 'out of school' activities
- Parental physical activity
- Visits to places and events
- Social activities





# Main interview: other topics

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- Pre-school
- Primary school
- Pregnancy and birth
- Parental health and well-being
- Material deprivation
- Food and eating
- Neighbourhood and community
- Housing and transport
- Social networks and social capital



# GUS questionnaire topic matrix

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- Excel document summarising broad topic content by cohort and sweep.
- Available to download from the study website:  
<http://growingupinScotland.org.uk/using-gus-data/>



# Partner interview

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- Conducted at sweep 2
- 20 minute interview with any resident partner of the main respondent
- Content included:
  - Factual demographic and socio-economic information
    - e.g. employment, earnings, education
  - Views/attitudes
    - e.g. readiness for primary school, work-life balance, couple relationship, importance of different activities, discipline



# Child interview

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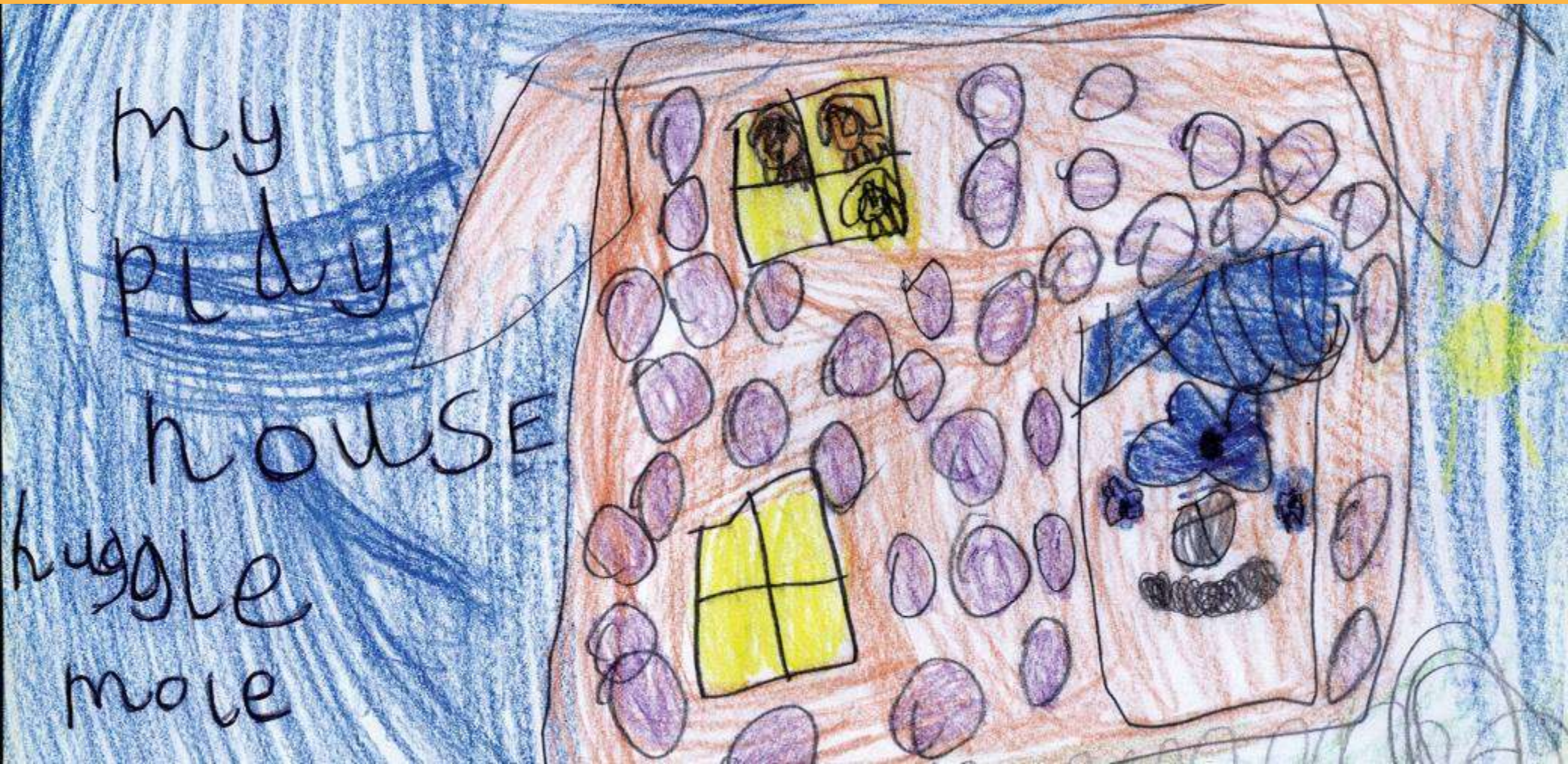
- Funded by Education Scotland and MRC SPHSU
- Undertaken at sweep 7 when children were aged (just under) 8 years old
- 15 minute audio-CASI, included as parallel block in main interview
- Topics included:
  - Friends, wellbeing, parenting, school, materialism





# Useful indicators and outcome measures

# 2.



# Overview

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1. Cognitive development and ability
2. Social development and behaviour
3. Health and physical development



# Cognitive development and ability

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| Instrument name  | Outcome area being measured                           |
|--|---|
| Communication milestones   | Existence/practice of communicative gestures in child |
| Whether child can be understood  | Whether child's speech can be understood              |
| Concerns about speech and language development                         | Parental concerns about speech and language           |
| Communication and Symbolic Behaviour Scales - Infant/Toddler Checklist | Development of communication                          |
| British Ability Scales   | Problem solving and expressive language ability       |



# CSBS

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- Evaluation tool that helps to determine communicative competence
- Measures 7 language predictors
  - Emotion and Eye Gaze
  - Communication
  - Gestures
  - Sounds
  - Words
  - Understanding
  - Object Use
- Used with BC1 at 22 months, and with BC2 at 10 months





# Cognitive assessments

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- Two assessments taken from the British Ability Scales Second and Third Editions (BAS II/BAS III)
- Picture Similarities
  - Child shown a row of 4 pictures and given card with 5<sup>th</sup> picture. Child has to match the image on the card with the correct image of the 4 displayed
- Naming vocabulary
  - Child shown a picture of an item and asked to say the item's name
- Assessments undertaken with BC1 and BC2 at 34 months and 58 months
- Range of variables produced giving various scores
- Useful doc: Connelly, R. (2013) 'Interpreting Test Scores', Millenium Cohort Study Data Note (available online from Centre for Longitudinal Studies library)



# Social, emotional and behavioural measures

| Instrument name                                       | Outcome area being measured  |
|---|--|
| Strengths and Difficulties Questionnaire              | Hyperactivity; Emotional problems; Conduct problems; Peer problems; Pro-social behaviour |
| Parent-child attachment                               | Negative feelings about parenting  |
| Problems managing child's behaviour and relationships | Peer and sibling relationships   |
| Pianta child-parent relationship scale                | Child-parent relationship  |
| Interviewer observations                              | Parent-child interactions  |
| Interviewer observations                              | Child temperament – positive and negative affect   |

# Strengths and Difficulties Questionnaire (SDQ)

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- 25 item, self-complete questionnaire, comprised of five domains/sub-scales covering:
  - Emotional Symptoms
  - Conduct Problems
  - Hyperactivity/inattention
  - Peer relationship problems
  - Prosocial behaviour
- These can be considered individually or the first four combined to create a 'total difficulties' score
- Variables for individual items, derived domain scores and total difficulties score all available on the dataset



# Infant-maternal attachment

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- **Items from the** Condon Maternal Attachment Scale (Condon and Corkindale, 1998)
- Four used for BC2, Six for BC1
- Focus on negative feelings about parenting related to incompetence, resentment, annoyance and impatience.
- For example:
  - “When thinking about the things I have had to give up because of [the child]...
    - ...I find that I resent or mind it a lot
    - ...a fair amount
    - ...a bit
    - ...I don't resent or mind it at all



# Parent-child relationship (PIANTA)

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- Full scale (Pianta, 1992) addresses three dimensions of parent-child relationship:
  - Warmth
  - Conflict
  - Dependency
- GUS includes subset of 15 items to measure 'warmth' and 'conflict'
- First used in sweep 5 with BC1

# **Physical health & development**

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| <b>Instrument name/outcome being measured</b> |
|---|
| General health                                |
| Short-term illness                            |
| Long-standing illness or disability           |
| Accidents and injuries                        |
| Child height & weight/ Body Mass Index        |
| Developmental milestones                      |
| Physical activity                             |

# Developmental milestones

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- Selected items from Denver Developmental Screening Test
- Measures developmental progress from birth to age 6
- GUS measured at two time points:
  - 10 months
  - 22 months
- Full instrument includes 125 items, GUS used between 7-10
- Items differ at each age point
- Items include:
  - Can child balance on one foot for at least 4 seconds?
  - Can child hop at least twice on one foot?
  - Can child throw a ball?

# Harmonised Questions

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- Ethnicity
- Religion
- Education

# Key analysis variables

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- Individual level (parent or child)
  - e.g. age of mother at birth, educational qualifications, ethnicity, religion, employment status, social class
- Household level
  - e.g. family type, household composition, household income, housing tenure
- Area level
  - Urban/rural characteristics, area deprivation, health board area



# Administrative data

# 3.



# Administrative data - overview

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- Three sets of administrative data which have been (or are in the process of being) linked to the survey dataset
  - Health data
  - Pre-school information
  - School data



# Health records

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## **SMR02**

### ***Maternity info***

e.g.

- Booking in date
- Height/Weight of Mother
- Substance use during pregnancy
- Birth weight

## **SMR00/01**

### ***Hospital admissions***

e.g.

- Department
- Main illness
- Operation info

## **SIRS**

### ***Immunisations***

e.g.

- Immunisations received
- Whether received full course

## **CHSP**

### ***Pre-school and School checks***

e.g.

Health visitor reports/  
examinations –  
development indicators,  
parent concerns

**Retrospective and prospective – from birth to end Primary School**

# Pre-school records

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**Pre-school type and roll:** e.g. funding (LA, partnership etc), number of children (total, and with ASN)

**Staff:** e.g. no. FTE equivalent, qualifications

**Quality ratings** (from SCSWIS inspections)

# School records

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**School roll information:** e.g. denomination, number of children (total, and by stage)

**Pupil level attendance and absence**

**Pupil level census:** ASN information, looked after status, free school meals

**Pupil level exclusions**