

Growing Up in Ireland

-the National Longitudinal Study of Children

The Economic and Social Research Institute and Trinity College, Dublin

Data Workshop

Infant Cohort



Contents of Presentation

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- 5. Using the data:
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 - b. Matching files
 - c. Changes in family structure across waves



Introduction and Background to the Study



Background to Growing Up in Ireland

- Study is almost wholly funded by Department of Children and Youth Affairs, in association with the Department of Social Protection, the Central Statistics Office and the Department of Education & Skills.
- A part funding contribution in support of Phase 2 of Growing Up in Ireland (2015-19) has been generously provided by The Atlantic Philanthropies, a limited life foundation.
- The Department of Children and Youth Affairs is overseeing and managing the study, which is being carried out by a group of independent researchers led by the Economic & Social Research Institute (ESRI) and Trinity College Dublin.
- Very strong policy focus



Objectives of Growing Up in Ireland

- to <u>study the lives of children/young people</u> in Ireland
- to establish what is <u>typical and normal</u> as well as what is atypical and problematic
- to identify the <u>key factors</u> that most help or hinder children's development
- to establish the effect of **early child experiences** on later life
- to identify the **persistent adverse effects** that lead to social disadvantage and exclusion, educational difficulties, ill health, deprivation etc.
- to obtain **children's views and opinions** on their lives
- to <u>provide evidence</u> for the creation of effective and responsive <u>policies and</u> <u>services</u> for children and families



Scale of *Growing Up in Ireland*

Two Cohorts for study

Child Cohort

8,500 9-year olds

Infant Cohort

11,000 9-month olds

120 households for in-depth qualitative assessment for both cohorts (Wave 1 only)



Phases of *Growing Up in Ireland*

• *Growing up in Ireland (GUI)* began in 2006:

- Two phases of funding
 - Phase 1 GUI1 2006-2014
 - Phase 2 GUI2 2015-2019



Data Sweeps, GUI1 and GUI2

Child Cohort

Infant Cohort

Phase 1:

(2007/08) Wave 1 - 9 years

(2011/12) Wave 2 - 13 years

Phase 2:

(2015/16) Wave 3 - 17 years

(2018) Wave 4 - 20 years

Phase 1:

(2008/09) Wave 1 - 9 mths

(2010/11) Wave 2 - 3 years

(2013) Wave 3 - 5 years

Phase 2:

(2015/16) Wave 3.5 -7 years (postal)

(2017/2018) Wave 4 - 9 years



Where are we now?

	Wave	Age	Fieldwork	Archived
Infant Cohort	1	9 months	Sept 08 – Apr 09	Yes
	2	3 years	Dec 10 – July 11	Yes
	3	5 years	Mar 13 - Sept 13	Yes (RMF not yet)
Child Cohort	1	9 years	Aug 07 – Jun 08	Yes
	2	13 years	Aug 11 – Mar 12	Yes



Longitudinal design of Growing Up in Ireland

- Cross-sectional studies involve independent, representative samples.
 Different respondents in each sample.
- Longitudinal design involves interviewing same sample of respondents on several occasions.
- Longitudinal study design tracks the progress of the same child and his/her family over a period of time
- Longitudinal design allows us to consider:
 - Why there is a problem and how it developed
 - What are the policy sensitive factors
 - When and how it is best to intervene
 - How effective was the intervention
 - How durable are the results



International Examples of Child Cohort Studies

- Longitudinal Study of Australian Children (LSAC) started in 2004
- Australian Temperament Project 1983 13 Waves
- Dunedin Multidisciplinary Health and Development Study 1972/73
- Millennium Cohort Study, Britain 2001 18,700 children
- British Cohort Study 1970
- National Child Development Study, Britain 1958
- National Survey of Health and Development 1946 16,500 children born
 March 1946. 21 sweeps to date.
- Danish National Birth Cohort 1997
- Norwegian Mother and Child Cohort Study 2000
- National Longitudinal Survey of Children and Youth, Canada—1994, 4 sweeps
- US Child Development Supplement to Panel Survey of Income Dynamics
- NICHD Study of Early Childcare



Sample Design and Weighting



The Sample of 9-month-old infants

- 73,662 infants (less than one year old) in population
- Random sample of 11,000 9-month-olds resident in Ireland
- Child Benefit Register used as sampling frame
- Sampled over 7 month period
- Simple, systematic selection procedure, random start and constant sampling fraction

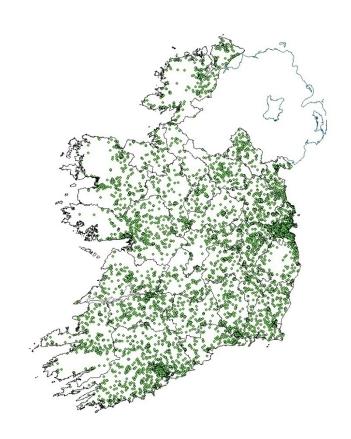


Securing informed consent from families

- Information sent to family in advance of first contact from interviewer
- Face-to-face visit from interviewer to organise appointment
- Opt-out basis
- Consent forms signed by parents/guardians prior to start of interview
- Response rate was 64.3%



Sampling Infant Cohort





Wave 2/3 Follow up

- Tracing information collected at each Wave
 - PPSN
 - Family / friend contact details
- Initial contact from Head Office
- Face-to-face visit from interviewer
- If possible, same interviewer at each Wave
- C.90% response rate at Wave 2
- C.87% response rate at Wave 3
- Fixed panel design



Re-weighting the sample data

- Differential response higher ed, higher social class more likely to respond
- Data were re-weighted or statistically adjusted to account for any differences in structure of population and completed sample
- Statistical re-weighting is a standard procedure and should be carried out in respect of all sample surveys prior to analysis
- Minimum information loss algorithm used to generate the weighting scheme. System used in ESRI is called GROSS – similar to CALMAR and ADJUST. Iterative column marginal approach.



Infant Cohort adjustment factors

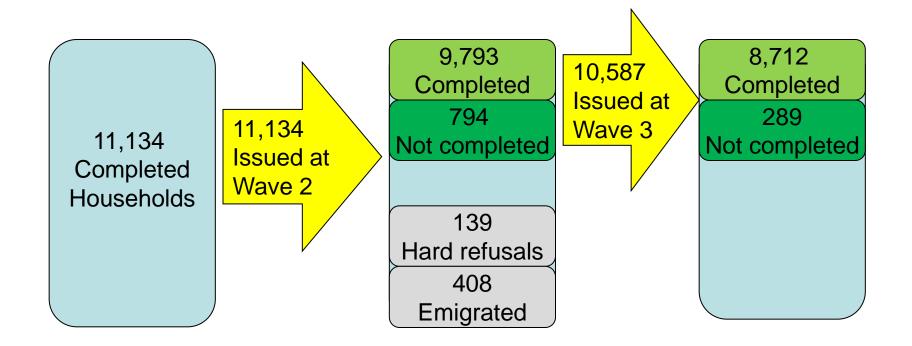
- 2 types of statistical adjustment factors included on file
- Weighting factor weights to total number of children in GUI sample (use for descriptive analysis & tests of statistical significance)
- Grossing factor grosses to total number of 9 month old children in Irish population (use for population estimates)
- Both provide same structural/percentage breakdown



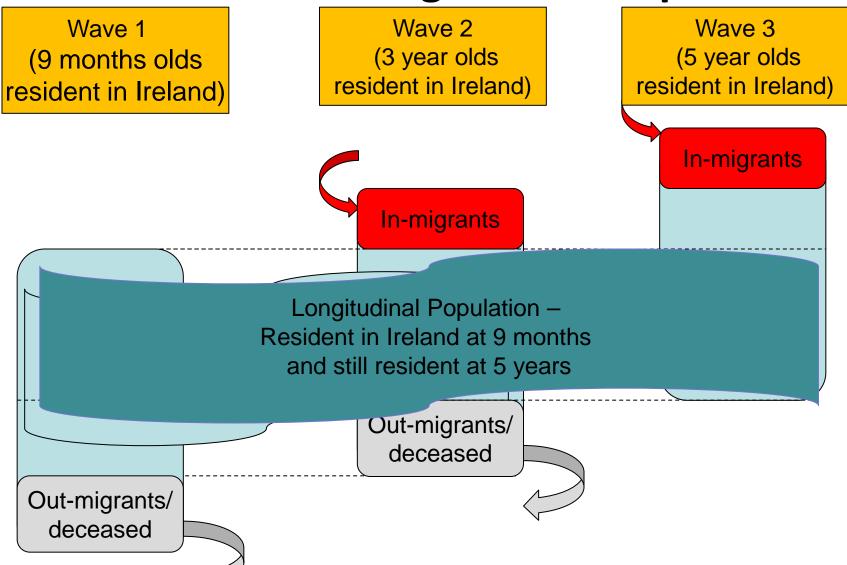
Infant Cohort Longitudinal Sample

Wave 1 (at 9 months) 11,134

Wave 2 (at 3 years) 9,793 Wave 3 (at 5 years) 9,001



Infant Cohort Longitudinal Population





Infant Cohort population

	Sample	Population
Wave 1	11,134	73,662
Wave 2	9,793	70,500
Wave 3	9,001 (8,712 all 3 waves)	69,300



Content and Structure of the Data



Respondents

Multiple sources of information:

- Primary Caregiver (PCG)*
- Secondary Caregiver (SCG)**
- Child Interview
- Child Cognitive Tests
- Principal
- Teacher
- Physical Measurements
- * PCG self-defined as person who provides most care to the child / knows child best usually mother
- **SCG self-defined as resident spouse/partner of PCG usually father



Data Collection

- Interviews in the home conducted on a Computer Assisted Interview (CAI) basis
 - Main interview administered by interviewer on Computer Assisted Personal Interview (CAPI) basis
 - Sensitive interview self-administered on Computer Assisted Self Interview (CASI) basis

 School based interviews were self-completed on pen-andpaper basis by teachers and principals



Summary of information recorded

	Wave	PCG	SCG	Child	Cognitive Tests	Principal	Teacher	Physical Measures
Infant Cohort	1 (9mth)	✓	✓					✓
	2 (3yr)	✓	✓		✓			✓
	3 (5yr)	✓	✓		✓	✓	✓	✓



Outcome domains

- Three outcome domains:
 - Socio-emotional, behavioural
 - Health
 - Education / cognitive development

Plus classificatory variables

(Full details in Domains, Themes and SubThemes Handout)



Socio-emotional, behavioural domain

- 1. Child's relationships
- 2. Child's lifestyle (habits & routines) / play and activities
- 3. Child's socio-emotional development
- 4. Family context/parenting
- 5. Marital/Partner relationship
- 6. Non-resident parent



Health domain

- 1. Pregnancy / pre-natal care
- 2. Child's birth
- 3. Child's health / healthcare utilisation
- 4. Child's nutrition /diet/ breastfeeding
- 6. Child's physical activity levels/exercise
- 7. Child's physical development
- 8. Physical measures
- 9. Parental health and lifestyle



Education / cognitive development domain

- 1. Childcare arrangements
- 2. Child's education / home learning environment
- 3. Child's cognitive development
- 4. Teacher characteristics and perception of child
- 5. Principal / school characteristics



Classificatory variables

- 1. Household composition
- 2. Parental Health and lifestyle
- 3. Socio-demographics
- 4. Neighbourhood and community



Scales

- Standardized measures
- Set of questions which measure underlying concept
- Used internationally
- Tested for reliability and validity
- Advantages quality, comparison



Structure of the data file

Data from all sources matched together

Most records involve a one to one match

 Some school level data involves a one to many match. E.g., Principal completes one questionnaire (one record) and multiple child records are matched to this



Overview of steps in using the GUI data

A. Online resources



GUI website

- Currently being redesigned
- Old address: www.growingup.ie
- New address: www.esri.ie/growing-up-in-ireland/
- General study information
- Questionnaires (individual)
- GUI publications
- Other publications using GUI data
- Data workshops & resources



ISSDA website

ISSDA website

- www.ucd.ie/issda/data/growingupinirelandgui/
- Apply for the data (AMF)
- Questionnaires (combined)
- Study documentation
- GUI register of use



DCYA website

DCYA website

- http://www.dcya.gov.ie/
- Apply for the data (RMF)
- General study information
- GUI publications



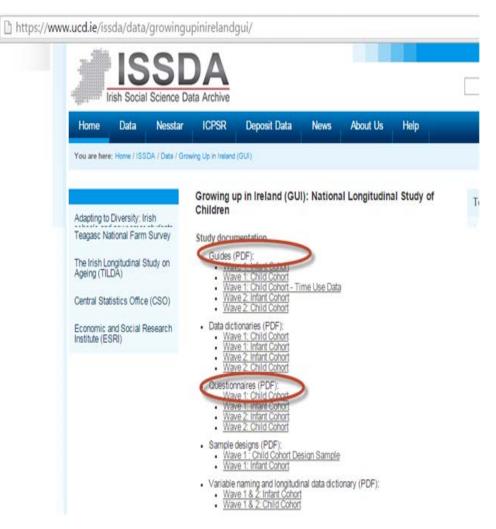
Overview of steps in using the GUI data

B. Questionnaires and documentation



Download questionnaires & documentation

Download
questionnaires &
documentation
from ISSDA
website





Questionnaires

- All original questions are included in the Questionnaire documentation – except for copyright scales
- CAPI programme was based on these questionnaires
- Instructions to interviewers
- Routing
- Exact question wording and response categories



Summary Guide Document

- Background to the study
- Sample design
- Instrument development
- Fieldwork and implementation
- Structure and content of the datasets
- Ethical considerations



Summary data dictionary

Short version of data dictionary

Lists only variable name and label

Colour coded by source questionnaire



Sample Design and Response Document

Introduction

The population, sampling frame and response rates

Reweighting the data

Wave 1 only



Overview of steps in using the GUI data

C. Conduct a GUI literature review



GUI literature review

- Literature review of previous research using GUI data
 - GUI publications

```
www.esri.ie/growing-up-in-ireland/growing-up-in-ireland-
publications/
```

Other publications using GUI data

```
www.esri.ie/growing-up-in-ireland/information-for-researchers/all-publications-using-growing-up-in-ireland-data/
```

ISSDA register of use

www.ucd.ie/issda/data/growingupinirelandgui/guiregisterofuse/





About Growing Up in Ireland Information for Participants Information fo Researchers

Home | Growing Up in Ireland | Growing Up in Ireland Publications | Infant Cohort

Infant Cohort

Research Reports

Wave 1

Growing Up in Ireland: Maternal Health Behaviours and Child Growth in Infancy

Growing Up in Ireland: Parenting and Infant Development

Growing Up in Ireland: Mothers' Return to Work and Childcare Choices for Infants in Ireland

Growing Up in Ireland: The Infants and their Families

Wave 2

Growing Up In Ireland: Development from Birth to Three Years

Key Findings Series

Wave 1 at 9 Months

Growing Up in Ireland: Childcare and Parenting Support

Growing Up in Ireland: Infant Health

Growing Up in Ireland: Pregnancy and Birth

Wave 2 at 3 Years

Growing Up in Ireland: Economic & Financial Circumstances Among Families of 3-Year-Olds

Growing Up in Ireland: Family Life and Childcare

Growing Up in Ireland: The Health of 3-Year-Olds

Growing Up in Ireland: Children's Physical Growth from Birth to Age 3







Show 10 ▼ entries

About Growing Up in Ireland Information for Participants

Search:

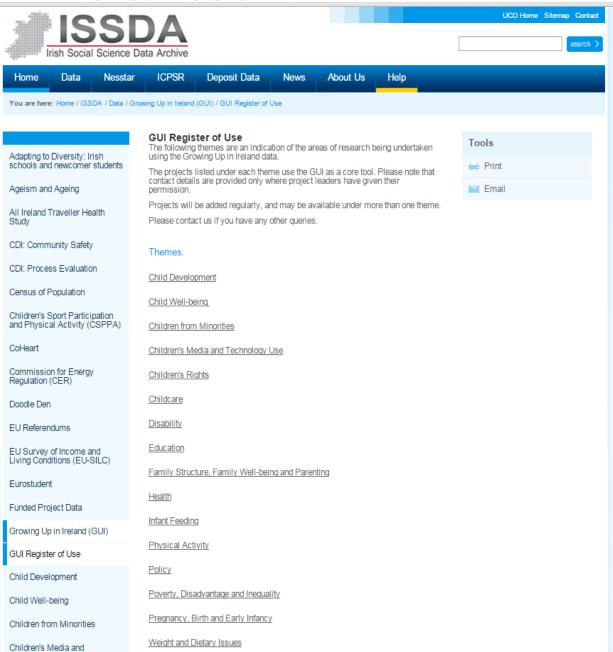
Information for Researchers

Home | Growing Up in Ireland | Information for Researchers | External Publications Using Growing Up in Ireland Data

External Publications Using Growing Up in Ireland Data

Author(s)	A	Year 🏺	Title	$\stackrel{\triangle}{\triangledown}$	URL
anks, J, McCoy, S		2012	What do we know about special educational needs? Evidence from Growing Up in Ireland		
enks, J, Shevlin, M, McCoy, S		2012	Disproportionality in special education: identifying children with emotional behavioural difficulties in Irish primary schools		10.1080/08
•• rick, A, Nolan, A, O'Reilly,J, Smith, S		2010	Part 7: Framework for supporting the delivery of integrated health care in Ireland. Chapter 15: Policy implications and a framework of entitlements for the Irish health-care sector.		
⊕adogan, SL, Keane, E, Kearney, PM		2014	The effects of individual, family and environmental factors on physical activity levels in children: a cross-sectional study		10.1186/14
asey, A, Layte, R, Lyons, S, Silles, M		2012	Home computer use and academic performance of nine-year- olds		10.1080/03
• astro, PD, Kearney, J, Layte, Richard		2015	A study of early complementary feeding determinants in the Republic of Ireland based on a cross-sectional analysis of the Growing Up in Ireland infant cohort		http:, dx.do
heevers, C, O'Connell,	,	2012	Developing an Index of Well-Being for Nine-Year-Old Irish Children		10.1007/s12
⊕prrigan, O		2014	Watch them Grow: Unmarried-cohabitant and Solo parenthood in Ireland An Analysis of the Growing Up in Ireland infant cohort data Waves 1 and 2	d	http:, http:/ final-report
_					







Overview of steps in using the GUI data

D. Apply for AMF through ISSDA



Two levels of data file

AMF

Anonymised Microdata File

AMF in the archive – ISSDA

Top & bottom coding

Collapsed categories

Removal of potentially identifying variables

RMF

Researcher Microdata File

Distributed directly by the DCYA/CSO

Less coding/collapsing

Contains more variables

More restricted access



Apply for AMF through ISSDA

- AMF dataset and documentation is held in ISSDA (Irish Social Sciences Data Archive)
- Access to the dataset applied for through ISSDA:
 - Download contract from ISSDA website
 - Complete, sign and return contract (email or post)
 - Name, address, institution & contact details
 - Dataset requested
 - Short description of intended use of the data
 - Consent to register of use
 - List of all users
 - Estimated end date for using the data
 - ISSDA send encrypted, password protected data (email or post)
 - Fast turnaround time



Apply for AMF through ISSDA

https://www.ucd.ie/issda/data/growingupinirelandgui/ Irish Social Science Data Archive Home Data Nesstar **ICPSR** Deposit Data News About Us Help You are here: Home / ISSDA / Data / Growing Up in Ireland (GUI) Growing up in Ireland (GUI): National Longitudinal Study of Children Adapting to Diversity: Irish National Travel Survey (NTS) Accessing the data The anonymised Growing Up in Ireland data from the Child (9 years) and Infant (9 NCPP Employee Attitudes months and 3 years) Cohorts are available for request for bona fide research Surveys purposes only. To attempt to use the data for any purpose other than research is an offence. To access the data, please complete a request form, specifying which cohorts are required, sign it, and send in a ISSDA by email or by post to the Opinion Poll Data following address: Irish Social Science Data Archive (ISSDA). Quarterly National Household UCD Library, Level 3, Survey (QNHS) University College Dublin. Belfield, School Leavers Survey Dublin 4. Ireland SPHERE Data will be disseminated on receipt of a fully completed, signed form. Incomplete or unsigned forms will be returned to the data requester for completion. Survey Of Public Attitudes to For teaching purposes, please complete the teaching request form, and follow the Disability procedures, as above. Teaching requests are approved on a once-off module/workshop basis. Subsequent occurrences of the module/workshop require a new teaching request form. Survey of Public Attitudes

Please contact us if you have any gueries.

Towards Forestry in Ireland



Overview of steps in using the GUI data

E. Familiarise yourself with the data



Familiarise yourself with the data

- Questionnaires
- Summary data dictionary
- Data workshop information sheets and worksheets (available from GUI website)
- 'Variable naming conventions and longitudinal data dictionary' document (available from ISSDA website)



Variable naming conventions and longitudinal data dictionary

- Types of variables in file
- Outline of both naming conventions
- Full longitudinal data dictionary:
 - All vars in Wave 1, Wave 2 and Wave 3
 - Convention A name, Convention B name
 - Shows what vars were asked across both waves
- How to match the files across waves SPSS syntax and drop down menus
- Example of analysis syntax



Variable characteristics

 Note – not all questions from questionnaire are on the anonymised datafile

 Variable labels are shortened version of question wording from questionnaire

 Important to check value labels on the datafile, may not exactly match questionnaire answer categories if categories have been collapsed for anonymisation purposes



Variable Naming

From Wave 2 on new naming convention introduced

Convention A (old) – questionnaire-based

Convention B (new) – topic-based harmonised cross-wave

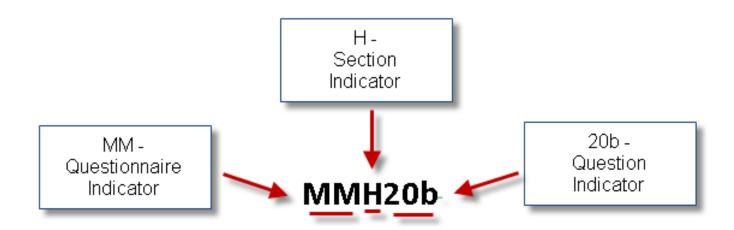


Variable Naming Convention A (old)

- Based on:
 - Questionnaire
 - Section
 - Question number
- File sorted according to questionnaire:
 - PCG Main / Sensitive
 - SCG Main / Sensitive
 - Child (if relevant)
 - Scales
 - Derived Variables
 - School (if relevant)



Variable Naming Convention A (old)



Note: will not be the same across waves

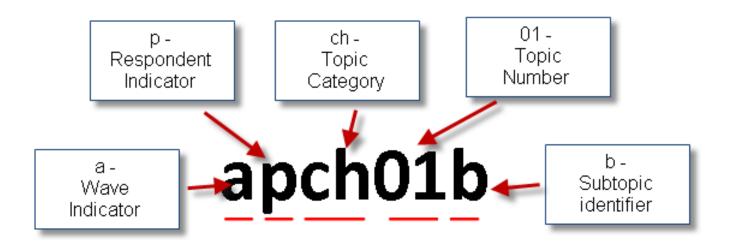


Variable Naming Convention B (new)

- Based on:
 - Wave
 - Respondent
 - Topic category
 - Topic number
 - Subtopic indicator
- File sorted according to topic category



Variable Naming Convention B (new)



Note: will be the same across waves except for wave indicator



Longitudinal Data Dictionary

								3yr	3yr
TopicCat	Varname	9mthName	9mthLabel	9mthRMF	9mthAMF	3yrname	3yrlabel	RMF	AMF
			D3a. How many hours sleep						
			does baby have during (a)						
CL	pCL02a	MMD3a	the day?	yes	yes				
			D3b. How many hours sleep						
			does baby have during (b)						
CL	pCL02b	MMD3b	the night?	yes	yes				
CL	pCL02c					bpc2b3	B3 daytime sleep in mins	yes	yes
			D4. What time does baby				B2. On a normal day, what time		
			usually get up at in the				does <child> wake up at in the</child>		
CL	pCL03	MMD4	morning?	yes	yes	bpc2B2	morning?	yes	yes
			D5. Is baby ever difficult						
CL	pCL04	MMD5	when put to bed?	yes	yes				
			D6. How often does baby						
CL	pCL05	MMD6	wake at night?	yes	yes				
			D7. How many times per						
CL	pCL06	MMD7	night on average?	yes	yes				
			D8. Do you ever wake baby						
CL	pCL07	MMD8	for a feed during the night?	yes	yes				
			D9. How do you normally						
CL	pCL08	MMD9	put baby down to sleep?	yes	yes				
CL	peroo	IVIIVIDS	D10. Does baby usually	yes	yes				
CL	pCL09	MMD10	sleep	yes	yes				
CL	peros	WINDIO		yes	yes				
	0140		D11. Where does baby sleep						
CL	pCL10	MMD11	for most of the night?	yes	yes				
CI			D12. Approximately how						
CL	pCL11	MMD12	many nights per week	yes	yes				
			D13. Do you feel that baby s						
CL	pCL12	MMD13	crying is a problem for you?	yes	yes				
			C5. Do you feel that baby s						
CL	sCL12	FC5	crying is a problem for you?	yes	yes				
			D14. How much is baby s				B4. How much is <child's></child's>		
CL	pCL13	MMD14	sleeping pattern or habits a	yes	yes	bpc2B4	sleeping pattern or habits a	yes	yes
	FOLIO		and pattern or mabits a	,	,		and partern or mants a	700	100

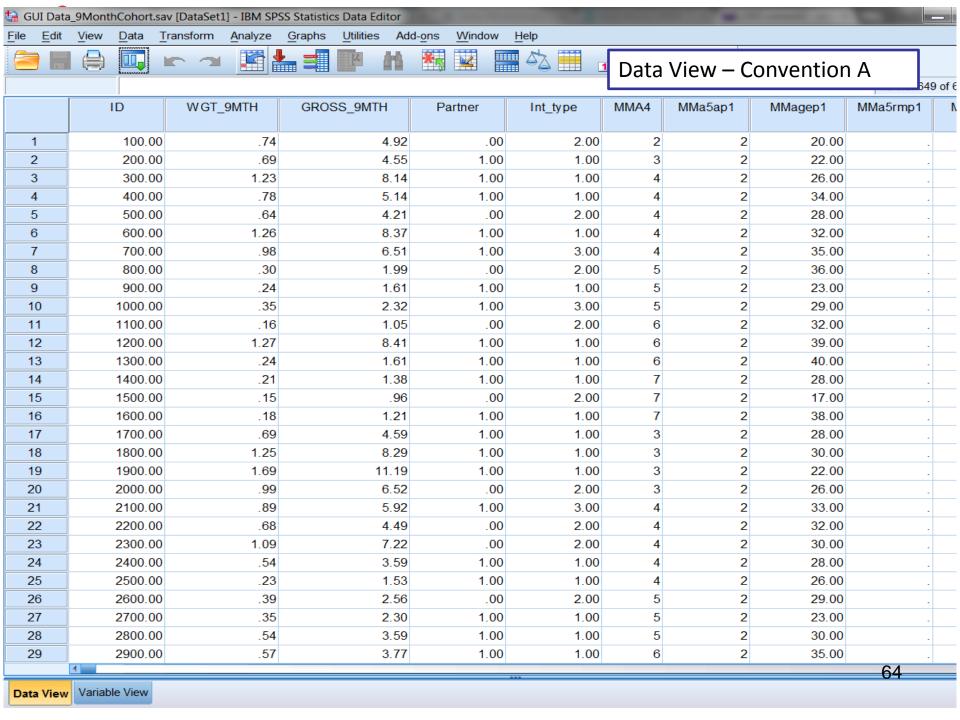


Which naming convention to use

- Cross-sectional analysis
 - easiest to use Convention A
 - direct match to the questionnaires
- Longitudinal analysis
 - best to use Convention B
 - easier to link across waves
 - need to identify question from questionnaire and look up longitudinal name in Longitudinal Data Dictionary



A BRIEF LOOK AT THE DATA





Overview of steps in using the GUI data

F. Apply for RMF if necessary



Apply for RMF if necessary

- From prelimary data analysis it will be clear if there are variables you need which are not included on the AMF
- Variable naming and Longitudinal data dictionary document will tell you if they are on the RMF
- RMF not available through ISSDA
- Must apply directly to DCYA and CSO
- Much tighter controls & longer turnaround time
- http://www.dcya.gov.ie

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Department of Children and Youth Affairs

About Us

Dr. James Reilly TD, Minister for Children and Youth Affairs

Childcare

Child and Family Agency

Children In Care

Child and Youth Participation

Child Welfare and Protection

Children First - Child Protection Guidance

Adoption

Irish Youth Justice Service

Youth Affairs

Play and Recreation

Area Based Childhood (ABC) Programme

EU Youth Presidency 2013

Mother and Baby Homes Investigation

Children and Young People's Services Committees (CYPSC)

Better Outcomes, Brighter Futures

Legislation

International Framework

Research

Growing Up in Ireland

DCYA/IRC Scholarship

Growing Up in Ireland Phase 1

Growing Up In Ireland Publications

Growing Up in Ireland

Growing Up in Ireland is the national longitudinal study of children. This study examines the factors that contribute to or undermine the well-being of children in contemporary Irish families.

Growing Up in Ireland data contribute to the setting of effective and responsive policies relating to children and to the design of services for children and their families.

What are the objectives of Growing Up in Ireland?
What are the key elements of Growing Up in Ireland?
What data has been collected?
What data can be accessed?
How can the QUANTITATIVE DATA be accessed?
How can the QUALITATIVE DATA be accessed?
What reports have been published?
Where can further information be found?

What are the objectives of Growing Up in Ireland?

The specific objectives of Growing Up in Ireland can be summarised as follows:

- to describe the lives of children in Ireland, in order to establish what is typical and normal as well as what is atypical and problematic;
- to chart the development of children over time, in order to examine the progress and wellbeing of children at critical periods from birth to adulthood;
- to identify the key factors that, independently of others, most help or hinder children's development;
- to establish the effects of early childhood experiences on later life;
- · to map dimensions of variation in children's lives;
- to identify the persistent adverse effects that lead to social disadvantage and exclusion, educational difficulties, ill health and deprivation;
- · to obtain children's views and opinions on their lives:
- to provide a bank of data on the whole child; and to provide evidence for the creation of
 effective and responsive policies and services for children and families;
- to provide evidence for the creation of effective and responsive policies and services for children and families.

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DCYA website

- Policy on access to GUI Research Microdata Files
- RMF Application Form
 - Name, organisation, address, position, contact details for each application
 - Supervisor details if student application
 - Research experience of applicants and associated organisations
 - Specific details of request
 - Specific details in relation to security arrangements for the RMF(s)
- Data sent on an encrypted, password protected disk



Overview of steps in using the GUI data

G. Inform ISSDA/DCYA you have finished & delete the data

form ISSDA/DCYA you have finished & delete the data

- Access to both AMF and RMF is project specific and time limited
- Inform ISSDA/DCYA when finished
- No copies of the data should be retained by the researcher
- RMF data users must sign an agreement confirming they have deleted all the data



Ownership and use of the data

- Users are reminded that the data are owned by the State and distributed under licence from the Central Statistics Office
- The data were collected under the Statistics Act 1993. This is a very important Act and clearly sets out the terms and conditions of use of the data recorded under it
- Data shall be used for statistical compilation and analysis only
- No data which can be related to an identifiable person shall be disseminated, shown or communicated to any person or body



http://www.growingup.ie