

Guide to Dataset: Colombia ECD Project Follow-Up II

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Project context

This project covered 96 small towns in central Colombia, representing a large number of small communities across a relatively big geographical area. It exploited structures in place from the government's Conditional Cash Transfer Programme, Familias en Accion (FeA), which targets the poorest 20% of households in the country.

There are currently three waves of data, a baseline, pre-intervention wave collected between February and June 2010, and a follow-up wave 18 months later between September and December 2011, at the end of the intervention period. The second wave of follow-up data collection occurred 2 months after the first follow-up data collection between September and December 2013.

The beneficiaries of FeA periodically elect a female representative, called the Madre Lider (ML). We randomly selected three from each town (municipality), and then from the families represented by the ML we randomly selected 5 children aged 12 to 24 months to be eligible for the intervention. Within each municipality, eligible households were randomly allocated (at the municipality level) to each of the following treatment arms:

- 1. Control**
- 2. Stimulation + Supplementation**
- 3. Stimulation**
- 4. Supplementation**

These MLs were then asked to take on the role of home visitor to implement the intervention of the different treatment arms. However, a significant proportion (nearly 40%) of the MLs either opted out or were not deemed suitable for the role, in which case they were replaced following their recommendations. In order to maintain the randomisation of the design, the families attached to the original ML were maintained, even if in the end she was not the actual home visitor.

The interventions

The stimulation intervention consisted of weekly visits to the homes of the target children, each visit lasting around one hour. The home visitors received a three week training programme in activities designed to stimulate children at different ages. They also received a weekly curriculum as a guide, and a set of locally produced materials (homemade toys from recycling material, picture books, puzzles, etc.).

The supplementation arm consisted of providing daily sachets of multiple micronutrient powder to mothers, via the home visitors, to add to the target child's food. Sachets were designed to provide iron (12.5mg), zinc (5mg), Vitamin A (300 µg retinol equivalent), Vitamin C (30mg) and folic acid (160 µg) for the children targeted.

The dataset

This dataset forms the second follow-up dataset for the intervention discussed above. Data from baseline and the first follow-up as well as intervention data (including treatment status) are publically available through the UK data service: [10.5255/UKDA-SN-851196](https://ukdataservice.ac.uk/10.5255/UKDA-SN-851196).

Note on identifiers

Tables 1 and 2 outline the key identifiers used to identify clusters, households and individuals in this second round of follow-up data collection. The main identifier for the cluster id 'dane', 'nim' is for the household. Both 'dane' and 'nim' is identical to the identifiers used in baseline and follow-up I. 'key_2s' is the new individual IDs assigned to each individual present in the household at the time for follow-up survey. 'key_2s' is different from the ID used at baseline and follow-up I ('llaveper') however 'key_1s' which is included in all individual level datasets is equal to 'llaveper' and so should be used for linking individuals across waves. 'key_1s' is not defined for household members who weren't recorded in previous rounds.

Sources of data

There are four main sources of data:

- Household survey
- Child Developmental Assessments
- Intervention Data
- Community Survey

Household Survey

This collected information on the household and on household members in a set of modules (questionnaires) administered by interviewers. The mapping from the questionnaires to the raw datasets is shown in tables 2 and 3. Note that some additional questions were asked in the follow-up II round while other questions were removed, so it is worth checking the wording of questions in the original questionnaires.

Separate questionnaires were asked at household and individual levels. At the individual level there are several standalone modules for the mother, children under six years old, the target child of the intervention, the main care giver, and the home visitor.

The modules contain a rich variety of data: the home environment and composition of the household; education and health; employment and time use etc. There are also a series of modules on child development.

Table 1: Identifiers and sample sizes

	Identifier at Baseline	Number at Baseline	Identifier at Follow-up	Number at Follow-up	Identifier at Follow-up II	Number at Follow-up II
Cluster	dane	96	dane	96	dane	96
Households	llave	1,429	nim	1,331	nim	1312
Target	llaveper	1,429	llaveper	1,332	key_1s	1316

children					OR key_2s	
Biological Mothers	llaveper	1,395	llaveper	1,259	key_1s OR key_2s	1,208
All household members	llaveper	7,499	llaveper	7,698	key_2s	6457
Children more than 6 months and less than 6 years	llaveper	2,147	llaveper	1,829	key_2s	1,609
All children less than 6 years	llaveper	2,210	llaveper	1,889	key_2s	1742
All persons over age 5	llaveper	5,288	llaveper	4,665	key_2s	6069
Primary caregiver	llaveper	151	llaveper	122	key_2s	196
Home Visitor	hv_0_id_bl	340	hv_0_id_fu	326	n/a	n/a

Table 2: Mapping of datasets to questionnaires at Follow-up II

Mapping of questionnaires – Follow-up II						
Dataset	Questionnaire	Questions	Questionnaire Name	Sections	Unique identifier	N
m1_1	modulo 1	101 – 325, 401 – 403, 701 – 710, 901 - 909	Housing and Home	Location and identification, Housing Characteristics, Health, Distances, Expenses, Other revenues and transfers, Incidents in the past 18 months,	nim	1,313
m1_2	modulo1	1101-1202	Housing and Home	Participation in Familias en Accion	nim	1313
m1_3	modulo1	1002 - 1003	Housing and Home	Food consumption of children in the household (for children between 6 months and 6 years)	nim+orden	1,609
m1_4	modulo1	300-320	Housing and Home	Family Structure	key_1s OR key_2s	8293
m1_5	modulo 1	325	Housing and Home	Children born in last two years not living	nim+orden2	4
m2_1	modulo 2	101 - 315	Education, work and health (for persons over age 5)	Education, Health, Work	key_1s OR key_2s	6069
m3_1	modulo 3	101-216	Children less than 6 years	Institutional and non-institutional care	key_1s OR key_2s	1742
m3_2	modulo 3	216 - 218	Children less than 6 years	Historical care arrangements	(key_1s OR key_2s)+ ord_216	3,153
m3a_1	modulo 3A	101 – 209, 311 – 313, 401 – 417, 501 – 508, 701 601	Annex for module 3 – Target Child	Interaction with biological parents (if don't live at home), Health, Morbidity, Quality of home environment, Child behavior questionnaire (CBQ), Strengths and difficulties questionnaires (SDQ)	key_1s OR key_2s	1316
m3a_2	modulo 3A	301	Annex for module 3 – Target Child	Time use	(key_1s OR key_2s)+ time interval (m3_301a1 – m3_301a4)	3399
m3a_3	modulo 3A	302 – 310	Annex for module 3 –	Time use	key_2s +orden3	1760

			Target Child			
m3b1	modulo 3B	102 401-508	Annex for module 3 – Younger sibling	Quality of home environment, Health, Mobility,	key_2s	292
m3b2	modulo 3B	601	Annex for module 3 – Younger sibling	MacArthur-Bates (8-18 months)	key_2s	292
m3b3	modulo 3B	601	Annex for module 3 – Younger sibling	MacArthur-Bates (19-30 months)	key_2s	292
m3b4	modulo 3B	603-610	Annex for module 3 – Younger sibling	MacArthur-Bates (31-48 months), Use of language	key_2s	292
m4_1	modulo 4	101 – 305, 801	Biological Mother	Time use, Health, Empowerment, Contraception and reproductive history, Knowledge of child development	key_1s OR key_2s	1,208
m4_2	modulo 4	401 – 406, 502-504	Biological Mother	Birth and breastfeeding of biological children, Physical development of biological children	key_1s OR key_2s	302
m5_1	modulo 5	100 - 601	Primary Caregiver	ID and location, Education, Health, Work, Time use, Knowledge of child development,	key_1s OR key_2s	196
m6_1	modulo 6	101	Home Inventory	Home Inventory to assess the quality of the family environment	nim	1312

Assessment of outcomes of the target child

In addition to the information collected in the questionnaires administered by interviewers at the household level, the target children also attended a centre where her developmental level was assessed by a trained psychologist using a variety of assessments:

- Test de Vocabulario en Imagenes Peabody (TVIP) to assess receptive language
- Daberon (modified) to assess school readiness
- Pencil Tapping Task to assess executive functioning
- Wolke to assess Emotional tone, activity, co-cooperativeness, approach
- Woodcock-Munoz Achievement 14 to assess expressive language
- Woodcock-Munoz Cognitive 5 to assess fluid reasoning/fluid intelligence
- Woodcock-Munoz Cognitive 6 to assess visual perception/processing speed
- Woodcock-Munoz Cognitive 12 to assess fluid reasoning
- Woodcock-Munoz Cognitive 13 to assess visual perception/spatial memory
- Woodcock-Munoz Cognitive 16 to assess speed processing
- Woodcock-Munoz Cognitive 21 to assess long term memory

In the dataset tests_TC we include the raw scores for each child assessment. These can be linked to other datasets using key_2s.

More details of the scoring and administration of each test is available in the document “guide to scoring and administration of child assessment data”

Assessments for mother

In the test centre we also performed some assessments with the mother of the target child:

- Raven’s progressive matrices to measure IQ
- CES-D 10 point depression scale
- Big Five to measure personality traits

In the dataset tests_mother we include the raw scores for each of these assessments. These can be linked to other datasets using key_2s.

Assessments for younger siblings

We used the ASQ-3 to assess child developmental levels of the younger siblings. This assessment occurred in the household. Item level data is available in the file asq_sibs.

Community Survey

This collects the information at the municipality level included in the questionnaire “community”. This includes information on shocks, services, wages, prices. The data are included in the datasets com_1-com_5 and the key identifying variable for merging to other datasets is “comunidad” which is identical to “dane” in the other datasets.

Additional sources of information

For more detailed information on the intervention and the data, please refer to ongoing work which will be updated on Evaluation of Development Policy department’s website, at the Institute for Fiscal Studies: <http://www.ifs.org.uk/centres/EDePo/about>

If there are any further questions regarding use of the data, please contact the researchers involved in this project at the IFS:

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