

Measuring Quality and Characterizing Cuna Mas Home Visits

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DATABASE

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Please note that the methodology of the study and the data is described in detail in Rubio-Codina, Dormal and Araujo (2018) available [here](#).

Brief description of the dataset

This dataset contains information on *Programa Nacional Cuna Más* (Cuna Mas, hereinafter), Peru's largest early childhood development program established in 2012. It focuses on one of the two services provided by Cuna Mas known as *Servicio de Acompañamiento a Familias* (SAF), a home visiting program that operates in rural areas and provides one-hour weekly home visits to children aged 0-36 months and their caregiver.

The objective of the study was to compare different instruments to measure the quality of home visiting programs. Between August and October 2015, three instruments were administered to a sample of 554 children enrolled in Cuna Mas and receiving home visits at the time of data collection, and on their 176 home visitors who regularly work with 80 supervisors.

The following quality instruments were administered:

- Home Visit Rating Scale, version A+2 (HOVRS; Roggman et al. 2010)
- Home Visit Content and Characteristics Form (HVCCF; Boller et al. 2009)
- A supervisor checklist

The first two quality instruments are widely used among home visiting services in the United States. For each child in the sample, one home visit was filmed and the videos were later coded to create the scores, following the instruments' manuals. The checklist, on the other hand, was designed based on record forms used by Cuna Mas and other home visiting programs in low- and middle- income countries, and was administered live during the visit by the home visitor's supervisor.

The final, multilevel dataset includes:

- 554 visits with an identical number of distinct children
- 176 home visitors
- 80 supervisors

The list of variables is provided below.

Name	Description
Home Visit Content and Characteristics Form¹	
duracion_min	duration of the visit (minutes)
p_1_1	=1 if only the mother was present during the visit
p_1_2	=1 if mother and father were present during the visit

Name	Description
p_1_3	=1 if mother, father and another person were present during the visit
p_1_4	=1 if mother and another person were present during the visit
p2_alt	=1 if children other than focus child participated
p3_alt	=1 if adults other than main caregiver and home visitor participated
p5a_alt	=1 if the child was awake during the entire visit
p6_span	=1 if language the home visit was conducted in was only Spanish
p6_que	=1 if language the home visit was conducted in was only Quechua
<i>p_7_1 to p_7_12 refer to the extent of time allocated to different topics and are coded as 1 “topic not treated” to 4 “main topic of the visit”:</i>	
p7_1	hand washing
p7_2	personal or household hygiene
p7_3	nutrition and health
p7_4	personal care routines (including security)
p7_5	child development (cognitive, language, motor)
p7_6	temperament of the child and socio-emotional aspects
p7_7	importance of the interactions between the child and caregiver (answering and talking to the child, hugging and praising)
p7_8	father's involvement in caregiving
p7_9	household dynamics, family problems, etc.
p7_10	relevant community services for the child
p7_11	relevant community services for adults and/or the household
p7_12	topics not related to the home visit
p9	extent to which environmental distractions (television, phone calls, visitors, pets, other children, noise, etc.) interfered with the home visit. Coded as 1 “no interruption or non-interfering” and 5 to “very interfering interruption.”
p10	was the visit fun? Coded as 1 to 5 where 1 refers to “almost never” and 5 to “almost always.”
p11	was the visit conflictive/tense? Coded as 1 to 5 where 1 refers to “almost never” and 5 to “almost always.”
The Cuna Mas home visit is organized around different activities. Variables p8a to p8i refer to different activities as explained below: • p8a: Greetings and arrival at the home • p8b: Reviewing the activities from the previous visit • p8c: “Family Life” (<i>Vida en Familia</i>) • p8d: “Learning through Play” (<i>Jugando Aprendo</i>) • p8e: “Tell me a Story” (<i>Cuéntame un Cuento</i>) • p8f: Singing • p8g: Closure and wrap-up • p8h: Reviewing the commitments and messages • p8i: Filling in the forms	

Name	Description
p8a_5	=1 if activity was carried out
p8b_5	=1 if activity was carried out
p8b_6	=1 if home visitor explained the objectives
p8b_7	=1 if child explored the material
p8b_8	=1 if home visitor demonstrated the activity with the child
p8b_9	=1 if child and caregiver carried out the activity on their own
p8c_5	=1 if activity was carried out
p8c_6	=1 if home visitor explained the objectives
p8c_7	=1 if child explored the material
p8c_8	=1 if home visitor demonstrated the activity with the child
p8c_9	=1 if child and caregiver carried out the activity on their own
p8d_5	=1 if activity was carried out
p8d_6	=1 if home visitor explained the objectives
p8d_7	=1 if child explored the material
p8d_8	=1 if home visitor demonstrated the activity with the child
p8d_9	=1 if child and caregiver carried out the activity on their own
p8e_5	=1 if activity was carried out
p8e_6	=1 if home visitor explained the objectives
p8e_7	=1 if child explored the material
p8e_8	=1 if home visitor demonstrated the activity with the child
p8e_9	=1 if child and caregiver carried out the activity on their own
p8f_5	=1 if activity was carried out
p8g_5	=1 if activity was carried out
p8h_5	=1 if activity was carried out
p8i_5	=1 if activity was carried out
Home Visit Rating Scale¹	
item1_1	score for item 1 of scale 1
item2_1	score for item 2 of scale 1
item3_1	score for item 3 of scale 1
item4_1	score for item 4 of scale 1
item5_1	score for item 5 of scale 1
item6_1	score for item 6 of scale 1
item1_2	score for item 1 of scale 2
item2_2	score for item 2 of scale 2
item3_2	score for item 3 of scale 2
item4_2	score for item 4 of scale 2
item5_2	score for item 5 of scale 2
item6_2	score for item 6 of scale 2
item7_2	score for item 7 of scale 2
item1_3	score for item 1 of scale 3
item2_3	score for item 2 of scale 3
item3_3	score for item 3 of scale 3

Name	Description
item4_3	score for item 4 of scale 3
item5_3	score for item 5 of scale 3
item6_3	score for item 6 of scale 3
item1_4	score for item 1 of scale 4
item2_4	score for item 2 of scale 4
item3_4	score for item 3 of scale 4
item4_4	score for item 4 of scale 4
item5_4	score for item 5 of scale 4
item1_5	score for item 1 of scale 5
item2_5	score for item 2 of scale 5
item3_5	score for item 3 of scale 5
item4_5	score for item 4 of scale 5
item5_5	score for item 5 of scale 5
item6_5	score for item 6 of scale 5
item7_5	score for item 7 of scale 5
item1_6	score for item 1 of scale 6
item2_6	score for item 2 of scale 6
item3_6	score for item 3 of scale 6
item4_6	score for item 4 of scale 6
item5_6	score for item 5 of scale 6
item6_6	score for item 6 of scale 6
item1_7	score for item 1 of scale 7
item2_7	score for item 2 of scale 7
item3_7	score for item 3 of scale 7
item4_7	score for item 4 of scale 7
total_8	total score for domain 1 (average of scales 1 to 4) ³
total_1	total score for scale 1 ²
total_2	total score for scale 2 ²
total_3	total score for scale 3 ²
total_4	total score for scale 4 ²
total_9	total score for domain 2 (average of scales 5 to 7) ³
total_5	total score for scale 5 ²
total_6	total score for scale 6 ²
total_7	total score for scale 7 ²
total_10	total score (average of scales 1 to 7) ³
Checklist	
P18	=1 if the home visitor asked the main caregiver if any of the activities demonstrated in the previous week were done
P19	=1 if the caregiver and the child demonstrated the activities from the previous week

Name	Description
Variables P221 to P311 refer to “Family Life”, P222 to P312 “Learning through Play”, and P223 to P313 to “Tell me a Story”.	
P221	=1 if the home visitor brought the toys and materials planned for the visit
P231	How well did the home visitor explain the objective of the activities shown in the current week ⁴
P241	=1 if the home visitor gave the child the opportunity to explore the material before beginning the activity
P251	How well did the home visitor demonstrate the activities to the main caregiver ⁴
P261	How well did the home visitor engage the main caregiver and child in the activities ⁴
P271	=1 if the home visitor allowed the main caregiver and child to try the activity on their own
P281	While main caregiver and child were doing the activity, how often did the home visitor comment/label/respond to what the main caregiver and child were doing ⁵
P291	=1 if the home visitor carried out all the steps of the activity
P301	=1 if the activity was adequate to the developmental level of the child
P311	=1 if the activity was of interest to the child
P222	=1 if the home visitor brought the toys and materials planned for the visit
P232	How well did the home visitor explain the objective of the activities shown in the current week ⁴
P242	=1 if the home visitor gave the child the opportunity to explore the material before beginning the activity
P252	How well did the home visitor demonstrate the activities to the main caregiver ⁴
P262	How well did the home visitor engage the main caregiver and child in the activities ⁴
P272	=1 if the home visitor allowed the main caregiver and child to try the activity on their own
P282	While main caregiver and child were doing the activity, how often did the home visitor comment/label/respond to what the main caregiver and child were doing ⁵
P292	=1 if the home visitor carried out all the steps of the activity
P302	=1 if the activity was adequate to the developmental level of the child
P312	=1 if the activity was of interest to the child
P223	=1 if the home visitor brought the toys and materials planned for the visit
P233	How well did the home visitor explain the objective of the activities shown in the current week ⁴

Name	Description
P243	=1 if the home visitor gave the child the opportunity to explore the material before beginning the activity
P253	How well did the home visitor demonstrate the activities to the main caregiver ⁴
P263	How well did the home visitor engage the main caregiver and child in the activities ⁴
P273	=1 if the home visitor allowed the main caregiver and child to try the activity on their own
P283	While main caregiver and child were doing the activity, how often did the home visitor comment/label/respond to what the main caregiver and child were doing ⁵
P293	=1 if the home visitor carried out all the steps of the activity
P303	=1 if the activity was adequate to the developmental level of the child
P313	=1 if the activity was of interest to the child
P32A	=1 if the home visitor transitioned easily from "Family life" to "Learn through play"
P32B	=1 if the home visitor transitioned easily from "Learn through play" to "Tell me a story"
P33	=1 if the home visitor asked the main caregiver to recall the activities she would be carrying out during the week with the child
P34	=1 if the home visitor asked the caregiver to provide some examples of how she could use the games and activities carried out during the visit in her daily life
P35	=1 if the home visitor asked the main caregiver what might get in the way of doing the activities
P36	=1 if the home visitor asked the main caregiver what else they could do during the week
P37	How often did the home visitor ask the main caregiver's opinion about things like: familiarity with the games and activities proposed, games the child usually plays, what the child can do, what the mother likes to do with child or the whole family ⁵
P38	How often did the home visitor show interest in what the main caregiver answered ⁵
P39	How often did the home visitor build on the information provided by the main caregiver during the visit ⁵
P40	How often did the home visitor address the child by her name ⁵
P41	How often did the home visitor get down to the child's level to interact with her ⁵
P42	How often did the home visitor respond to the child's vocalizations and gestures ⁵
P43	How often did the home visitor praise/encourage the child for her attempts (to do things) during the activity ⁵
P44	How often did the home visitor prompt the caregiver to respond to and/or praise the child ⁵

Name	Description
P45	How often did the home visitor praise/encourage the main caregiver during the activity for his/her efforts ⁵
P46_alen	=1 if the home visitor's attitude towards the main caregiver was encouraging
P46_dir	=1 if the home visitor's attitude towards the main caregiver was intrusive/bossy
P46_indif	=1 if the home visitor's attitude towards the main caregiver was indifferent
P46_tim	=1 if the home visitor's attitude towards the main caregiver was shy
P46_otr	=1 if the home visitor's attitude towards the main caregiver was other than the above
P47	How often did the child actively participate during the visit ⁵
P48	How often did the caregiver actively participate during the visit ⁵
P49	How often did the home visitor and caregiver discuss topics unrelated to visit objectives ⁵
P50	How often was the home visitor taking care of the child alone during the visit ⁵
P51	How often was the visit fun ⁵
P52	How often was the visit conflictive/tense ⁵
Supervisor	
CODACT	unique supervisor identifier
Q4_dur_mesess	time in program (months)
Q5	number of home visitors supervisor is in charge of
Q6_supno	=1 if tertiary technical complete
Q6_supui	=1 if university incomplete
Q6_supuc	=1 if university complete
Child	
Q12_dur_mesess	time in program (months), child
Q10A	=1 if child has had at least one other home visitor since enrolment
Q10B	number of home visitors since enrolment (if more than 1)
edad_mesess_q	age of the child (months)
Home visitor	
CODFAC	unique home visitor identifier
Q7_dur_mesess	time in program (months), home visitor
Q8	number of children visited by home visitor
Q9_dur	time working with family (months)
f_edad_anios	age of home visitor (in years) ⁶
f_educ_yrs	education of home visitor (in years) ⁶
f_exp_nin3_tiene	=1 if has experience with children in the 0-3 age range ⁶
f_exp_fam_tiene	=1 if has experience working with families ⁶
kidi_total_2	Knowledge of Infant Development Inventory (KIDI) raw score ⁶
Community⁶	
ubigeo_ccpp	unique community identifier
au_tran_min1_h	time from the community to the district capital by foot (hours)

Name	Description
au_tran_min5_h	time from the community to the district capital by car (hours)
au_inst_c4p1_3	=1 if the community has a health center
au_social_c5p1a_3	=1 if the community has a preschool center of the Ministry of Education
au_social_c5p1a_4	=1 if the community has a pharmacy
au_social_c5p1n_5	=1 if the community has a bank or <i>caja municipal/rural</i>
au_social_c5p1n_6	=1 if the community has a police station
au_social_c5p1n_7	=1 if the community is a beneficiary of the school breakfast program "Qali Warma"
au_com_c7p1_1	=1 if the community is a beneficiary of the school lunch program "Qali Warma"
au_com_c7p1_5	=1 if the community is a beneficiary of "Beca 18" program
au_com_ban	=1 if the community beneficiary of "Juntos" program
au_sal_centp	=1 if the community beneficiary of "Pensión 65" program

Note: ¹ The videos for the HVCCF and the HOVRS were coded twice, independently, by two coders randomly selected from a pool of coders. If scores from both coders did not satisfy the item-level and/or scale-level reliability criteria, the video was assigned to a third coder. The scores correspond to the average of the scores of the 2 coders with the highest reliability, except for variables p_1_1 to p6_que and p8a to p8i of the HVCCF which are from one of the two coders selected at random.

² Following the manual, total scale scores are assigned by the coder and do not necessarily correspond to the mathematical average of all items.

³ Domain scores are constructed averaging scale scores within the domain and the total score is constructed as the average of the two domain scores.

⁴ Items rated on a scale from 1 to 5 as 1 “did not explain/demonstrate/engage” to 5 “very good explanation/demonstration/engagement”.

⁵ Items rated on a scale from 1 to 5 as 1 “almost never” to 5 “almost always”.

⁶ Data originates from a home visitor and a community survey administered in a separate study.

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