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Intrahousehold responses to imbalanced human capital subsidies: Evidence from the Philippine conditional cash transfer program

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ONLINE APPENDIX

ADB Economics Working Paper No. 645

**Intrahousehold Responses to Imbalanced Human Capital Subsidies:
Evidence from the Philippine Conditional Cash Transfer Program**

David A. Raitzer, Odbayar Batmunkh, and Damaris Yarcia

December 2021

Table A1: Outcome-Specific Covariates

Outcome Variables	Additional Covariates Used ^a
Maternal health	Access to health facility at barangay level (2011) <ul style="list-style-type: none"> • Barangay health station presence • Rural health unit presence • Number of government hospitals • Number of doctors
Children's health	Access to health facility at barangay level (2011) <ul style="list-style-type: none"> • Number of government hospitals • Number of doctors • Child's age in months • Age of mother at birth
School enrollment and completion Child labor Reading comprehension	Number of schools (public or private) in the barangay (2011) <ul style="list-style-type: none"> • Preschool • Elementary • High school
Social services utilization Community engagement Child-related expenditure Household Expenditure Self-reported poverty and hunger Employment outcomes for all members of household Children's grit Time allocation	None

Note: ^a These covariates are added on top of existing global covariates: municipality, household size, road accessibility, average year of 4Ps signup at barangay level, and the presence of facilities in the barangay.

Source: Authors' compilation.

Table A2: Fuzzy Regression Discontinuity Design Results in Levels

Outcome	RDD: Pooled Fuzzy RDD			
	Coefficient	Number of Observations	Treatment Mean	Control Mean
Household Income				
Annual total income – including grants	12,262	3,739	104,105	91,842
Annual total income – excluding grants	2,015	3,727	93,213	91,198
Annual total income – including grants; log transformed	0.52 ***	3,626	10.95	10.43
Annual total income – excluding grants; log transformed	0.06	3,309	10.35	10.29
Annual per capita income – including grants	2,900 *	3,715	21,555	18,655
Annual per capita income – excluding grants	646	3,706	19,203	18,557
Per capita income – including grants; log transformed	0.49 ***	3,652	9.41	8.91
Per capita income – excluding grants; log transformed	0.05	3,370	8.85	8.80
Annual per capita income from wages	-1,931	3,673	13,227	15,158
Annual per capita income from entrepreneurial activities	1,592	1,672	6,694	5,102
Household self rates as poor	0.01	3,791	0.21	0.20
Household Expenditure				
Per capita total expenditure; log transformed	0.05	2,853	10.33	10.28
Per capita food expenditure; log transformed	0.10 **	3,212	9.88	9.79
Per capita alcohol and tobacco expenditure; log transformed	0.14	3,472	3.29	3.15
Per capita clothing and footwear expenditure; log transformed	0.66 ***	3,335	5.32	4.66
Per capita inpatient/hospital care expenditure; log transformed	0.30 *	3,574	0.58	0.28
Experienced hunger at least once in the past 3 months	-0.05 *	3,999	0.12	0.17
Other Household Outcomes				
Labor force participation	0.00	10,825	0.58	0.58
Employment	0.01	5,006	0.06	0.06
Household (HH) has one member of PhilHealth	0.37 ***	3,827	0.90	0.53
HH has one beneficiary of social protection programs	0.15 ***	3,883	0.96	0.81
Ever attended any parenting session	0.37 ***	3,500	0.71	0.34
Voluntary participation in community activities in the past 6 months	0.26 ***	3,399	0.56	0.30
HH owns evacuation kit	0.18 ***	3,649	0.37	0.19
HH has one member of a community organization	0.16 ***	2,854	0.35	0.19

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Table A2 *continued*

Outcome	RDD: Pooled Fuzzy RDD			
	Coefficient	Number of Observations	Treatment Mean	Control Mean
Maternal outcomes				
Delivery assisted by skilled health professional	-0.01	738	0.80	0.81
Facility-based delivery	0.14	818	0.83	0.69
Aware of any modern reproductive health method	-0.01	2,250	0.99	1.00
Ever used any modern reproductive health method	0.06	2,680	0.81	0.75

RDD = regression discontinuity design.

Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A3: Pooled Child Results Disaggregated by Gender in Levels

Outcome	IV: Pooled Fuzzy RDD				IV: Female Child 4Ps vs Non-4Ps		IV: Male Child 4Ps vs Non-4Ps	
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N
Child Health								
Number of times child received prenatal care	0.47	764	6.46	5.98	0.32	314	0.35	389
Any postnatal check	0.15 *	792	0.92	0.76	0.17 *	304	-0.01	334
Child aged 2 to 5, weight measured 3 times in the past 6 months	0.07	770	0.37	0.30	0.00	395	0.19	311
Number of times child's weight was measured in the past 6 months	0.28	622	2.58	2.31	-0.16	289	0.73	239
Child received vitamin, 0.5-6 year olds	0.00	740	0.83	0.83	-0.04	416	0.08	488
Child received deworming pills	0.06	872	0.54	0.47	0.00	425	0.13	508
Child received expanded program on immunization vaccines	-0.01	956	0.26	0.27	-0.00	280	0.03	366
Child visited rural health facility if sick with diarrhea, cough, or fever	0.18 **	383	0.28	0.09	0.00	219	0.26 **	180
Child Nutrition								
Child ate eggs in the last week	-0.05	841	0.90	0.96	-0.07	584	0.01	378
Child ate fish in the last week	-0.04	979	0.90	0.94	-0.01	568	-0.03	522
Child ate meat in the last week	0.01	990	0.72	0.71	0.06	566	0.01	460
Child ate vegetables in the last week	0.06	743	0.87	0.82	0.03	576	0.07	408
Dietary diversity score	-0.18	1,024	4.98	5.15	-0.20	537	-0.15	468
Child Anthropometry								
Stunting	0.06	819	0.39	0.33	-0.02	400	0.19 *	443
Severe stunting	0.06	847	0.15	0.09	-0.01	350	0.10 *	443
Underweight	0.11	976	0.28	0.17	0.04	378	0.13	390

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Table A3 continued

Outcome:	IV: Pooled Fuzzy RDD				IV: Female Child 4Ps vs Non-4Ps				IV: Male Child 4Ps vs Non-4Ps			
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	Coefficient	N	Coefficient	N
Severe underweight	0.03	851	0.07	0.05	0.02	348	0.01	348	0.01	406	0.01	406
Wasting	0.01	858	0.01	0.09	-0.01	349	0.01	349	0.01	361	0.01	361
Severe wasting	0.01	892	0.03	0.02	0.04	367	0.01	367	-0.03	451	-0.03	451
Child School Enrollment												
Enrollment among 6 to 11 years old	0.01	2,103	0.99	0.98	0.00	1,077	0.01	1,077	0.01	1,234	0.01	1,234
Enrollment among 12 to 15 years old	0.01	1,232	0.95	0.94	-0.04	562	0.01	562	0.06	753	0.06	753
Enrollment among 16 to 17 years old	0.15	629	0.93	0.78	0.23	247	0.01	247	0.12	352	0.12	352
Enrollment among 6 to 14 years old	0.01	3,360	0.98	0.97	-0.01	1,513	0.01	1,513	0.03	1,999	0.03	1,999
Enrollment among 15 to 20 years old	0.01	2,003	0.78	0.77	-0.09	788	0.01	788	0.07	921	0.07	921
Enrollment in elementary school	0.01	2,190	0.96	0.94	0.00	1,098	0.01	1,098	0.01	1,188	0.01	1,188
Enrollment in high school	0.06	2,021	0.86	0.80	0.13	1,072	0.01	1,072	0.03	1,172	0.03	1,172
Enrollment in senior high school	0.10	639	0.58	0.48	0.11	286	0.01	286	0.06	325	0.06	325
Child dropped out of school ages 12-15	-0.02	1,834	0.02	0.04	0.00	608	0.01	608	-0.03	799	-0.03	799
Child dropped out of school ages 16-17	-0.02	619	0.05	0.07	-0.10	260	0.01	260	0.02	281	0.02	281
Attended 85% of school days among 6 to 11 years old	0.03	2,330	0.95	0.92	0.03	1,257	0.01	1,257	0.02	1,250	0.02	1,250
Attended 85% of school days among 12 to 15 years old	0.01	1,428	0.95	0.95	0.01	712	0.01	712	0.01	705	0.01	705
Attended 85% of school days among 16 to 17 years old	-0.01	564	0.96	0.97	0.06	281	0.01	281	-0.05	257	-0.05	257
Age for grade: current age - reference age for this grade	0.05	4,539	1.40	1.35	0.16	2,274	0.01	2,274	-0.02	2,194	-0.02	2,194
Age for grade among 6 to 11 years old	-0.03	1,939	0.57	0.60	0.00	885	0.01	885	-0.09	1,279	-0.09	1,279
Age for grade among 12 to 15 years old	0.06	1,461	1.44	1.38	0.21	713	0.01	713	-0.02	808	-0.02	808

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Table A3 *continued*

Outcome:	IV: Pooled Fuzzy RDD			IV: Female Child 4Ps vs Non-4Ps			IV: Male Child 4Ps vs Non-4Ps		
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	
Age for grade among 16 to 17 years old	-0.14	639	2.07	2.20	-0.19	306	-0.06	328	
Participation in extracurricular activities	0.05	5,275	0.55	0.50	0.02	2,769	0.08	2,689 *	
No. of extracurricular activities	0.01	3,906	1.18	1.18	-0.07	2,581	0.14	1,951	
Child Literacy									
Child literacy: Reading	-0.02	3,431	0.95	0.97	0.00	1,184	-0.03	1,599	
Child literacy: Writing	-0.01	3,056	0.96	0.97	-0.01	1,162	-0.02	1,574	
Child literacy: Numbers	-0.04	2,742	0.86	0.90	-0.01	1,344	-0.07	1,503 *	
Child literacy: Communication	0.03	2,338	0.83	0.80	0.07	1,209	-0.03	1,187	
Child literacy: Basic	-0.02	3,036	0.93	0.95	0.01	1,250	-0.04	1,421	
Child literacy: Full	-0.02	2,458	0.74	0.75	0.04	1,263	-0.07	1,368	
Aspirations for Children and Grit									
Child will finish elementary school	0.03	** 2,348	0.99	0.96	0.00	1,353	0.05	** 1,222	
Child will finish high school	0.00	5,405	0.97	0.97	0.01	2,019	0.02	2,551	
Child will finish college	0.02	3,058	0.92	0.90	-0.03	1,588	0.05	2,018	
Child will grow up healthy	0.01	4,981	0.99	0.98	0.01	2,601	0.00	2,835	
Child will have decent employment	0.00	4,278	0.98	0.98	0.00	2,482	-0.01	2,105	
Child will have better future	0.01	6,334	0.9	0.88	0.03	3,070	0.00	2,570	
Grit: Ask for help when lesson is difficult	0.04	3,990	0.93	0.89	0.01	1,592	0.06	** 1,814	
Grit: Strive to get higher grades	0.04	* 4,033	0.93	0.89	0.04	1,831	0.04	1,887	
Grit: Finish school work before playing	0.04	4,125	0.77	0.73	-0.01	1,771	0.13	** 1,734	
Grit: Finish school work	0.04	4,328	0.85	0.82	-0.06	1,855	0.06	1,830	
Grit index	0.15	* 4,066	3.48	3.32	-0.04	1,815	0.30	** 1,775	

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Table A3 continued

Outcome:	IV: Pooled Fuzzy RDD				IV: Female Child 4Ps vs Non-4Ps				IV: Male Child 4Ps vs Non-4Ps			
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	Coefficient	N	Coefficient	N
Parental styles												
PSDQ: Mother is authoritative	-0.06	3,394	0.44	0.51	-0.05	1,647	-0.06	1,727				
PSDQ: Mother is authoritarian	0.00	4,325	0.04	0.03	0.01	1,719	-0.03	2,000				
PSDQ: Mother is permissive	0.08 *	2,895	0.49	0.41	0.07	1,745	0.09 *	1,564				
PSDQ: Mother is neglectful	0.00	4,334	0.04	0.03	-0.03	1,782	0.00	1,890				
PSDQ: Father is authoritative	-0.10 **	2,490	0.39	0.49	-0.18 ***	1,698	-0.06	1,369				
PSDQ: Father is authoritarian	0.04 **	3,115	0.09	0.05	0.03	1,759	0.04	1,668				
PSDQ: Father is permissive	0.06	2,510	0.45	0.40	0.10 *	1,882	0.03	1,362				
PSDQ: Father is neglectful	0.00	3,555	0.07	0.07	0.02	1,755	-0.02	1,775				
PSDQ: Both parents are authoritative	-0.11 **	2,615	0.34	0.44	-0.14 ***	1,796	-0.05	1,356				
PSDQ: Both parents are authoritarian	0.01	2,626	0.01	0.00	0.01	1,374	0.01	1,449				
PSDQ: Both parents are neglectful	0.00	3,446	0.01	0.02	0.00	1,649	-0.02	1,631				
PSDQ: Both parents are permissive	0.07	2,196	0.40	0.34	0.11	1,551	0.07	1,228				
Child labor												
In labor force ages 15-18	-0.05	1,334	0.08	0.13	0.06 **	716	-0.10	770				
Natural log child 15-18 hours in last month paid labor	-0.30 *	1,493	0.29	0.60	0.41 ***	579	-0.65 ***	719				
Natural log child 10-14 hours in last month paid labor	-0.09	1,883	0.06	0.16	-0.06	960	-0.11	952				
Natural log child 10-18 hours in last month paid labor	-0.19 ***	2,773	0.16	0.35	0.11 *	1,490	-0.38 ***	1,441				
Natural log child 15-18 hours in last month unpaid labor	-0.09	1,694	0.01	0.10	-0.03	446	-0.21 *	666				
Natural log child 10-14 hours in last month unpaid labor	-0.03	1,913	0.01	0.04	-0.02	955	-0.02	952				
Natural log child 10-18 hours in last month unpaid labor	-0.08 *	2,954	0.00	0.08	-0.02	1,465	-0.12 *	1,317				

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Table A3 continued

Outcome:	IV: Pooled Fuzzy RDD				IV: Female Child 4Ps vs Non-4Ps		IV: Male Child 4Ps vs Non-4Ps	
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N
	Time allocation							
Child time spent studying	-0.57	5,532	5.47	6.03	-0.89 *	2,712	-0.51	2,645
Child time spent watching television	-0.34	4,844	7.36	7.70	-0.91	2,640	0.08	2,578
Child time spent playing	0.05	5,400	6.83	6.78	-0.05	2,618	0.29	2,851
Child time spent on the internet	-1.10 *	4,655	4.13	5.24	-0.96	2,230	-1.28	2,638
Child time spent reading books	-0.19	4,939	3.82	4.01	-0.36	2,415	-0.11	2,575
Child time spent listening to music	0.06	5,047	2.75	2.69	0.29	2,533	-0.09	2,564
Child time spent doing chores	-0.17	4,668	6.39	6.56	-0.04	2,269	-0.38	2,563
Child time spent working	0.15	5,143	1.73	1.58	1.12 **	2,471	-0.62	2,631

4Ps = Pantawid Pamilyang Pilipino Program, N = number of observations, RDD = regression discontinuity design.

PSDQ = Parenting Styles and Dimensions Questionnaire developed by Clyde Robinson, Barbara Mandelco, Suzanne Roper, and Craig Hart. 2001. The Parenting Styles and Dimensions Questionnaire (PSDQ). *Handbook of Family Measurement Techniques* 3: 319-21.

Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A4: Results by Monitoring Eligibility in Levels

Outcome:	IV: Pooled Fuzzy RDD			IV: Monitoring Eligible vs non-4Ps			IV: Monitoring ineligible vs non-4Ps		
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	
Child health									
Number of times child received prenatal care	0.47	764	6.46	5.98	1.24	**	520	-0.08	551
Any postnatal check	0.15	* 792	0.92	0.76	0.05		528	0.03	527
Child aged 2–5 weight measured 3 times in the past 6 months	0.07	770	0.37	0.30	0.20	***	496	-0.04	472
No. of times child's weight was measured in the past 6 months	0.28	622	2.58	2.31	0.86	**	458	0.00	513
Child received vitamin A, 0.5–6 year olds	0.00	740	0.83	0.83	0.15	***	629	-0.07	657
Child received deworming pills	0.06	872	0.54	0.47	0.13		793	0.07	778
Child received expanded program on immunization vaccines	-0.01	956	0.26	0.27	-0.03		588	-0.08	610
Child visited rural health facility if sick with diarrhea, cough, or fever	0.18	** 383	0.28	0.09	0.18	**	318	0.03	214
Child nutrition									
Child ate eggs in the last week	-0.05	841	0.90	0.96	-0.01		501	-0.06	655
Child ate fish in the last week	-0.04	979	0.90	0.94	0.01		467	-0.03	895
Child ate meat in the last week	0.01	990	0.72	0.71	-0.05		513	-0.03	784
Child ate vegetables in the last week	0.06	743	0.87	0.82	0.04		519	0.09	* 659
Dietary diversity score	-0.18	1,024	4.98	5.15	-0.40		605	0.13	810
Child anthropometry									
Stunting	0.06	819	0.39	0.33	0.02		604	0.17	* 607
Severe stunting	0.06	847	0.15	0.09	0.01		594	0.13	** 599
Underweight	0.11	976	0.28	0.17	0.03		677	0.18	*** 744
Severe underweight	0.03	851	0.07	0.05	0.01		547	0.08	595
Wasting	0.01	858	0.10	0.09	0.05		551	-0.01	621
Severe wasting	0.01	892	0.03	0.02	0.03		523	0.01	567

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Table A4 continued

Outcome:	IV: Pooled Fuzzy RDD			IV: Monitoring Eligible vs non-4Ps			IV: Monitoring ineligible vs non-4Ps		
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	
Child school enrollment									
Enrollment among 6 to 11 years old	0.01	2,103	0.99	0.98	0.01	1,918	-0.01	1,398	
Enrollment among 12 to 15 years old	0.01	1,232	0.95	0.94	0.05	** 1,567	-0.24	** 671	
Enrollment among 16 to 17 years old	0.15	** 629	0.93	0.78	0.22	*** 573	0.07	335	
Enrollment among 6 to 14 years old	0.01	3,360	0.98	0.97	0.02	* 2,879	-0.02	1,892	
Enrollment among 15 to 20 years old	0.01	2,003	0.78	0.77	0.14	*** 1,628	-0.09	995	
Enrollment in elementary school	0.01	2,190	0.96	0.94	0.02	1,930	-0.01	1,483	
Enrollment in high school	0.06	2,021	0.86	0.80	0.11	*** 2,044	-0.11	1,177	
Enrollment in senior high school	0.10	639	0.58	0.48	0.18	* 561	0.01	372	
Child dropped out of school ages 12-15	-0.02	1,834	0.02	0.04	-0.03	* 1,521	0.11	653	
Child dropped out of school ages 16-17	-0.02	619	0.05	0.07	-0.04	560	-0.07	313	
Attended 85% of school days among 6 to 11 years old	0.03	2,330	0.95	0.92	0.02	1,990	-0.01	1,311	
Attended 85% of school days among 12 to 15 years old	0.00	1,426	0.95	0.95	-0.02	1,356	0.12	** 802	
Attended 85% of school days among 16 to 17 years old	-0.01	564	0.96	0.97	0.02	642	-0.06	277	
Age for grade: current age - reference age for this grade	0.05	4,539	1.40	1.35	-0.18	3,824	0.69	*** 2,484	
Age for grade among 6 to 11 years old	-0.03	1,939	0.57	0.60	-0.06	1,727	0.12	1,452	
Age for grade among 12 to 15 years old	0.06	1,461	1.44	1.38	-0.06	1,422	0.45	880	
Age for grade among 16 to 17 years old	-0.14	639	2.07	2.20	-0.43	536	0.11	387	
Participation in extracurricular activities	0.05	5,275	0.55	0.50	0.07	* 4,373	0.03	2,725	
No. of extracurricular activities	0.01	3,906	1.18	1.18	0.06	3,341	-0.17	2,405	
Child Literacy									
Child literacy: Reading	-0.02	3,431	0.95	0.97	-0.02	2,631	-0.04	1,245	
Child literacy: Writing	-0.01	3,056	0.96	0.97	-0.01	2,934	-0.11	** 1,254	
Child literacy: Numbers	-0.04	2,742	0.86	0.90	-0.03	2,461	-0.17	* 1,311	

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Table A4 continued

Outcome:	IV: Pooled Fuzzy RDD			IV: Monitoring Eligible vs non-4Ps			IV: Monitoring ineligible vs non-4Ps		
	Coefficient	N	Mean	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N
Child literacy: Communication	0.03	2,338	0.83	0.83	0.80	0.04	2,191	-0.01	1,444
Child literacy: Basic	-0.02	3,036	0.93	0.93	0.95	-0.02	2,829	-0.10	1,240
Child literacy: Full	-0.02	2,458	0.74	0.74	0.75	0.00	2,305	-0.14	1,307
Aspirations for Children and Grit									
Child will finish elementary school	0.03	** 2,348	0.99	0.99	0.96	0.04	*** 2,046	0.01	1,824
Child will finish high school	0.00	5,405	0.97	0.97	0.97	0.03	*** 4,160	-0.06	** 2,928
Child will finish college	0.02	3,058	0.92	0.92	0.90	0.05	2,862	-0.05	1,987
Child will grow up healthy	0.01	4,981	0.99	0.99	0.98	0.01	* 3,878	0.00	3,037
Child will have decent employment	0.00	4,278	0.98	0.98	0.98	0.00	3,904	-0.02	3,249
Child will have better future	0.01	6,334	0.90	0.90	0.88	0.02	5,153	0.02	3,694
Grit: Ask for help when lesson is difficult	0.04	3,990	0.93	0.93	0.89	0.05	* 3,335	0.02	2,543
Grit: Strive to get higher grades	0.04	* 4,033	0.93	0.93	0.89	0.05	** 3,454	0.03	2,517
Grit: Finish school work before playing	0.04	4,125	0.77	0.77	0.73	0.04	3,366	0.05	2,510
Grit: Finish school work	0.04	4,328	0.85	0.85	0.82	0.05	3,594	0.03	2,425
Grit index	0.15	* 4,066	3.48	3.48	3.32	0.17	** 3,435	0.14	2,567
Parental styles									
PSDQ: Mother is authoritative	-0.06	3,394	0.44	0.44	0.51	-0.05	2,822	-0.10	2,280
PSDQ: Mother is authoritarian	0.00	4,325	0.04	0.04	0.03	0.01	3,217	-0.01	2,374
PSDQ: Mother is permissive	0.08	* 2,895	0.49	0.49	0.41	0.07	2,504	0.09	1,958
PSDQ: Mother is neglectful	0.00	4,334	0.04	0.04	0.03	0.00	3,626	0.03	2,683
PSDQ: Father is authoritative	-0.10	** 2,490	0.39	0.39	0.49	-0.10	* 1,942	-0.12	* 1,531
PSDQ: Father is authoritarian	0.04	** 3,115	0.09	0.09	0.05	0.05	*** 2,886	0.04	1,959
PSDQ: Father is permissive	0.06	2,510	0.45	0.45	0.40	0.05	2,168	0.09	1,626
PSDQ: Father is neglectful	0.00	3,555	0.07	0.07	0.07	-0.01	3,019	0.00	2,078

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Table A4 continued

Outcome:	IV: Pooled Fuzzy RDD			IV: Monitoring Eligible vs non-4Ps			IV: Monitoring ineligible vs non-4Ps		
	Coefficient	N	Control Mean	Coefficient	N	Coefficient	N	Coefficient	N
PSDQ: Both parents are authoritative	-0.11	** 2,615	0.34	0.44	*	-0.11	* 1,951	-0.11	1,479
PSDQ: Both parents are authoritarian	0.01	2,626	0.01	0.00		0.01	2,147	-0.01	1,273
PSDQ: Both parents are neglectful	0.00	3,476	0.01	0.02		-0.01	3,401	0.02	2,612
PSDQ: Both parents are permissive	0.07	2,196	0.40	0.34		0.05	2,777	0.13	* 1,408
Child labor									
In labor force ages 15-18	-0.05	1,334	0.08	0.13		-0.08	** 1,422	0.02	896
Natural log child 15-18 hours in last month paid labor	-0.30	* 1,493	0.29	0.60		-0.35	** 1,194	-0.34	855
Natural log child 10-14 hours in last month paid labor	-0.09	1,883	0.06	0.16		-0.10	* 2,426	-0.07	1,317
Natural log child 10-18 hours in last month paid labor	-0.19	*** 2,773	0.16	0.35		-0.21	*** 2,649	-0.19	1,302
Natural log child 15-18 hours in last month unpaid labor	-0.09	1,694	0.01	0.10		-0.11	1,336	-0.13	916
Natural log child 10-14 hours in last month unpaid labor	-0.03	1,913	0.01	0.04		-0.03	2,168	-0.08	* 1,013
Natural log child 10-18 hours in last month unpaid labor	-0.08	* 2,954	-	0.08		-0.07	* 2,734	-0.11	* 1,845
Time allocation									
Child time spent studying	-0.57	5,532	5.47	6.03		-0.42	4,730	-0.81	4,381
Child time spent watching television	-0.34	4,844	7.36	7.70		-0.08	3,975	-0.91	3,366
Child time spent playing	0.05	5,400	6.83	6.78		0.04	5,651	0.16	3,572
Child time spent on the internet	-1.10	* 4,655	4.13	5.24		-0.96	4,507	-0.82	3,185
Child time spent reading books	-0.19	4,939	3.82	4.01		-0.15	4,317	0.08	3,744
Child time spent listening to music	0.06	5,047	2.75	2.69		0.21	4,716	0.15	3,205
Child time spent doing chores	-0.17	4,668	6.39	6.56		0.17	4,327	-0.84	3,355
Child time spent working	0.15	5,143	1.73	1.58		-0.69	4,314	2.15	* 3,587

4Ps = Pantawid Familyyang Pilipino Program, N = number of observations; RDD = regression discontinuity design.
 PSDQ = Parenting Styles and Dimensions Questionnaire developed by Clyde Robinson, Barbara Mandelco, Suzanne Roper, and Craig Hart. 2001. The Parenting Styles and Dimensions Questionnaire (PSDQ). *Handbook of Family Measurement Techniques* 3: 319-21.
 Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.
 Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A5: Effects on Monitoring Eligible/Ineligible by Gender in Levels

Outcome	IV: Monitoring Eligible vs Non-4Ps				IV: Monitoring Ineligible vs Non-4Ps				
	Female Child		Male Child		Female Child		Male Child		
	Coefficient	N	Coefficient	N	Coefficient	N	Coefficient	N	
Child Health									
Number of times child received prenatal care	1.33	*	265	1.29	255	0.33	283	-0.76	268
Any postnatal check	0.06		268	0.01	260	0.06	275	-0.05	252
Child aged 2 to 5 weight measured 3 times in the past 6 months	0.17	*	250	0.28	**	246	-0.18	246	0.13
No. of times child's weight was measured in the past 6 months	1.05	**	235	0.90	223	-0.44	264	0.79	249
Child received vitamin A, 0.5-6 year olds	0.17	**	322	0.17	**	307	-0.13	334	0.00
Child received deworming pills	0.06		412	0.20	381	0.08	401	0.14	*
Child received expanded program on immunization vaccines	-0.04		258	0.05	261	-0.04	240	0.09	224
Child visited rural health facility if sick with diarrhea, cough, or fever	0.12		225	0.17	*	219	-0.03	191	0.04
Child Nutrition									
Child ate eggs in the last week	-0.06		381	0.00	366	-0.18	*	250	-0.04
Child ate fish in the last week	0.00		243	-0.04	224	0.01	452	-0.04	443
Child ate meat in the last week	0.01		266	-0.16	247	0.00	400	0.02	384
Child ate vegetables in the last week	0.01		269	0.08	250	0.14	**	336	0.08
Dietary diversity score	-0.62		316	-0.24	289	0.39	415	-0.13	395
Child Anthropometry									
Stunting	-0.04		317	0.14	287	0.05	312	0.39	***
Severe stunting	0.00		314	0.06	280	0.04	308	0.17	**
Underweight	0.16		350	-0.10	327	0.01	379	0.30	***
Severe underweight	-0.02		286	0.01	261	0.03	304	0.09	291
Wasting	0.05		284	0.04	267	-0.10	*	319	-0.01
Severe wasting	0.05		272	0.01	251	-0.01	291	0.03	276

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Table A5 *continued*

Outcome	IV: Monitoring Eligible vs Non-4Ps				IV: Monitoring Ineligible vs Non-4Ps			
	Female Child		Male Child		Female Child		Male Child	
	Coefficient	N	Coefficient	N	Coefficient	N	Coefficient	N
Child School Enrollment								
Enrollment among 6 to 11 years old	0.00	899	0.01	1,019	-0.01	644	0.01	754
Enrollment among 12 to 15 years old	0.01	737	0.09	** 830	-0.15	* 334	-0.32	* 337
Enrollment among 16 to 17 years old	0.21	** 283	0.25	*** 335	0.09	180	-0.13	203
Enrollment among 6 to 14 years old	-0.01	1,367	0.04	** 1,512	-0.04	907	0.00	985
Enrollment among 15 to 20 years old	0.08	739	0.19	*** 889	-0.14	457	-0.02	538
Enrollment in elementary school	0.01	902	0.01	1,028	-0.04	681	-0.03	802
Enrollment in high school	0.11	** 954	0.11	** 1,090	0.07	579	-0.26	* 598
Enrollment in senior high school	0.24	* 283	0.15	335	-0.05	173	-0.10	191
Child dropped out of school ages 12-15	-0.02	723	-0.04	798	0.04	333	0.21	320
Child dropped out of school ages 16-17	-0.06	289	-0.04	309	-0.18	209	0.16	204
Attended 85% of school days among 6 to 11 years old	0.03	933	0.01	1,057	0.00	611	-0.03	700
Attended 85% of school days among 12 to 15 years old	0.00	649	-0.02	707	0.04	415	0.23	** 387
Attended 85% of school days among 16 to 17 years old	0.05	312	-0.02	354	0.03	170	-0.08	171
Age for grade: Current age – reference age for this grade	0.00	1,779	-0.28	* 2,045	0.77	*** 1,155	0.62	* 1,329
Age for grade among 6 to 11 years old	-0.01	819	-0.14	908	0.20	687	-0.07	765
Age for grade among 12 to 15 years old	0.11	668	-0.16	754	0.52	437	0.61	443
Age for grade among 16 to 17 years old	-0.55	297	-0.69	336	0.03	170	0.96	177
Participation in extracurricular activities	0.05	2,080	0.09	* 2,293	-0.01	1,341	0.05	1,384
No. of extracurricular activities	-0.07	1,605	0.17	1,736	-0.45	* 1,188	0.00	1,217
Child Literacy								
Child literacy: Reading	-0.01	1,297	-0.03	1,334	-0.03	643	-0.04	602
Child literacy: Writing	0.00	1,448	-0.01	1,486	0.01	649	-0.20	** 605
Child literacy: Numbers	-0.01	1,203	-0.07	1,258	-0.07	679	-0.25	** 632

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Table A5 continued

Outcome	IV: Monitoring Eligible vs Non-4Ps				IV: Monitoring Ineligible vs Non-4Ps			
	Female Child		Male Child		Female Child		Male Child	
	Coefficient	N	Coefficient	N	Coefficient	N	Coefficient	N
Child literacy: Communication	0.07	1,083	-0.01	1,108	0.15	745	-0.14	699
Child literacy: Basic	0.00	1,392	-0.04	1,437	0.02	640	-0.20	** 600
Child literacy: Full	0.05	1,133	-0.06	1,172	0.00	677	-0.27	* 630
Aspirations for Children and Grit								
Child will finish elementary school	0.01	928	0.08	*** 1,118	-0.03	825	0.04	999
Child will finish high school	0.02	1,971	0.04	** 2,189	-0.06	** 1,391	-0.07	* 1,537
Child will finish college	-0.01	1,339	0.09	** 1,523	-0.08	950	0.00	1,037
Child will grow up healthy	0.02	* 1,793	0.01	2,085	0.00	1,431	-0.01	1,606
Child will have decent employment	0.00	1,841	0.00	2,063	-0.03	1,568	-0.01	1,681
Child will have better future	0.03	2,439	0.01	2,714	0.03	1,765	0.01	1,929
Grit: Ask for help when lesson is difficult	0.02	1,592	0.07	** 1,763	0.03	1,223	0.00	1,320
Grit: Strive to get higher grades	0.06	** 1,635	0.05	1,819	0.06	1,209	-0.01	1,308
Grit: Finish school work before playing	-0.05	1,596	0.13	** 1,770	-0.01	1,204	0.09	1,306
Grit: Finish school work	0.00	1,711	0.09	** 1,883	0.05	1,160	0.00	1,265
Grit index	0.01	1,625	0.33	*** 1,810	0.15	1,233	0.10	1,334
Parental Styles								
PSDQ: Mother is authoritative	-0.06	1,333	-0.04	1,489	-0.14	1,090	-0.07	1,190
PSDQ: Mother is authoritarian	0.03	1,520	-0.01	1,697	0.00	1,136	-0.01	1,238
PSDQ: Mother is permissive	0.07	1,199	0.08	1,305	0.09	939	0.08	1,019
PSDQ: Mother is neglectful	-0.01	1,721	-0.01	1,905	0.05	1,296	0.02	1,387
PSDQ: Father is authoritative	-0.18	*** 931	-0.05	1,011	-0.28	*** 736	-0.02	795
PSDQ: Father is authoritarian	0.04	1,368	0.05	** 1,518	0.07	944	0.01	1,015
PSDQ: Father is permissive	0.14	* 1,044	0.00	1,124	0.13	779	0.10	847
PSDQ: Father is neglectful	0.00	1,433	-0.02	1,586	0.08	1,001	-0.08	** 1,077

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Table A5 continued

Outcome	IV: Monitoring Eligible vs Non-4Ps				IV: Monitoring Ineligible vs Non-4Ps			
	Female Child		Male Child		Female Child		Male Child	
	Coefficient	N	Coefficient	N	Coefficient	N	Coefficient	N
PSDQ: Both parents are authoritative	-0.19	934	-0.05	1,017	-0.27	701	0.00	778
PSDQ: Both parents are authoritarian	0.01	1,020	0.01	1,127	-0.01	602	-0.02	671
PSDQ: Both parents are neglectful	0.00	1,611	-0.02	1,790	0.06	1,250	-0.01	1,362
PSDQ: Both parents are permissive	0.09	1,310	0.03	1,467	0.15	672	0.14	736
Child Labor								
In labor force ages 15-18	0.04	650	-0.15	772	0.05	418	-0.02	478
Natural log child 15 - 18 hours in last month paid labor	0.40	533	-0.86	661	0.32	389	-1.16	466
Natural log child 10 - 14 hours in last month paid labor	-0.06	1,195	-0.13	1,231	-0.11	684	0.05	633
Natural log child 10 - 18 hours in last month paid labor	0.09	1,253	-0.42	1,396	0.19	634	-0.52	668
Natural log child 15 - 18 hours in last month unpaid labor	-0.07	600	-0.10	736	-0.08	412	-0.27	504
Natural log child 10 - 14 hours in last month unpaid labor	-0.02	1,065	-0.03	1,103	-0.07	525	-0.02	488
Natural log child 10 - 18 hours in last month unpaid labor	-0.03	1,297	-0.09	1,437	-0.06	908	-0.12	937
Time Allocation								
Child time spent studying	-0.61	2,210	-0.46	2,520	-1.09	2,083	-0.74	2,298
Child time spent watching television	-0.39	1,852	0.11	2,123	-0.81	1,587	-1.10	1,779
Child time spent playing	-0.06	2,669	0.10	2,982	-0.20	1,674	0.69	1,898
Child time spent on the internet	-0.73	2,108	-1.26	2,399	-0.46	1,504	-0.89	1,681
Child time spent reading books	-0.35	2,018	-0.01	2,299	0.26	1,758	-0.19	1,986
Child time spent listening to music	0.42	2,203	0.12	2,513	0.58	1,512	-0.27	1,693
Child time spent doing chores	0.19	2,020	0.08	2,307	-0.28	1,583	-1.78	1,772
Child time spent working	-0.02	2,016	-1.22	2,298	2.71	1,685	1.66	1,902

4Ps = Pantawid Familyyang Pilipino Program, N = number of observations.
 PSDQ = Parenting Styles and Dimensions Questionnaire developed by Clyde Robinson, Barbara Mandleco, Suzanne Roper, and Craig Hart. 2001. The Parenting Styles and Dimensions Questionnaire (PSDQ). *Handbook of Family Measurement Techniques* 3: 319-21.
 Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.
 Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A6: Robustness Check 1, Restricted to Households where Interview Language is Same as Household's Primary Language

Outcome	IV: Pooled Fuzzy RDD			IV: Monitoring Eligible vs Non-4Ps			IV: Monitoring Ineligible vs Non-4Ps			
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	Coefficient	N
Child Literacy										
Child literacy: Reading	-0.03	1,981	0.94	0.97	-0.03	1,795	-0.05	1,099		
Child literacy: Writing	-0.00	2,038	0.96	0.97	-0.00	1,838	-0.08	1,095		
Child literacy: Numbers	-0.06	2,060	0.85	0.91	-0.05	1,862	-0.17	1,034	*	
Child literacy: Communication	0.03	1,867	0.83	0.81	0.03	1,798	0.03	915		
Child literacy: Basic	-0.02	2,037	0.92	0.94	-0.02	1,956	-0.10	1,025		
Child literacy: Full	-0.07	2,002	0.72	0.78	0.04	1,933	-0.13	1,005		
Aspirations for Children and Grit										
Child will finish elementary school	0.03	** 1,939	1.00	0.96	0.05	*** 1,740	0.01	1,213		
Child will finish high school	0.01	3,751	0.98	0.97	0.03	** 3,694	-0.06	2,504	**	
Child will finish college	0.02	2,384	0.91	0.89	0.06	2,252	-0.04	1,933		
Child will grow up healthy	0.01	3,934	0.99	0.98	0.01	* 3,104	-0.01	2,420		
Child will have decent employment	-0.02	* 3,291	0.97	0.99	0.00	3,157	-0.03	1,967	*	
Child will have better future	0.02	4,775	0.90	0.88	0.02	4,378	0.04	2,875		
Grit: Ask for help when lesson is difficult	0.04	2,733	0.92	0.88	0.03	2,444	0.04	2,168		
Grit: Strive to get higher grades	0.05	** 3,082	0.93	0.88	0.05	* 2,385	0.05	2,223		
Grit: Finish school work before playing	0.04	3,504	0.76	0.72	0.03	2,824	0.07	2,108		
Grit: Finish school work	0.04	3,520	0.85	0.81	0.04	2,729	0.08	1,999		
Grit index	0.16	* 3,214	3.46	3.30	0.15	2,538	0.25	2,041		
Parental Styles										
Both parents are authoritative	-0.10	* 1,891	0.32	0.43	-0.11	* 1,594	-0.15	1,271		
Both parents are authoritarian	0.01	2,392	0.01	0.00	0.01	1,835	-0.02	1,289	*	
Both parents are neglectful	-0.01	2,788	0.01	0.02	-0.01	2,367	0.01	1,601		
Both parents are permissive	0.08	2,330	0.42	0.34	0.07	2,229	0.17	1,372	**	

4Ps = Pantawid Pamilyang Pilipino Program, N = number of observations; RDD = regression discontinuity design.

Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A7: Robustness Check 2, Regressions without Covariates

Outcome	IV: Pooled Fuzzy RDD				IV: Monitoring Eligible vs Non-4Ps		IV: Monitoring Ineligible vs Non-4Ps	
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N
Child Anthropometry								
Stunting	0.01	891	0.37	0.36	-0.06	656	0.11	658
Severe stunting	0.03	921	0.14	0.11	-0.02	645	0.09	649
Underweight	0.09	1,070	0.28	0.19	0.03	738	0.14	815
Severe underweight	0.01	924	0.06	0.05	-0.03	601	0.07	643
Wasting	0.01	945	0.10	0.09	-0.01	599	0.05	682
Severe wasting	0.00	980	0.03	0.02	0.00	584	0.01	618
Child School Enrollment								
Enrollment among 6 to 11 years old	0.01	2,103	0.99	0.98	0.01	1,918	-0.01	1,398
Enrollment among 12 to 15 years old	0.02	1,232	0.95	0.93	0.06	1,567	-0.18	671
Enrollment among 16 to 17 years old	0.15	629	0.93	0.78	0.23	573	0.02	335
Enrollment among 6 to 14 years old	0.01	3,360	0.98	0.97	0.02	2,879	-0.01	1,892
Enrollment among 15 to 20 years old	-0.01	2,003	0.77	0.78	0.22	1,628	-0.21	995

4Ps = Pantawid Pamilyang Pilipino Program, N = number of observations, RDD = regression discontinuity design.

Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A8: Robustness Check 3, Mean Square Error Optimal Bandwidth

Outcome:	IV: Pooled Fuzzy RDD			IV: Monitoring Eligible vs Non-4Ps			IV: Monitoring Ineligible vs Non 4P			
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	Coefficient	N
Child Anthropometry										
Stunting	0.05	987	0.38	0.33	0.00	730	0.15	738		
Severe stunting	0.08	1,021	0.16	0.08	0.03	726	0.13	728	**	**
Underweight	0.10	1,187	0.27	0.17	0.02	836	0.16	902	**	**
Severe underweight	0.02	1,021	0.07	0.05	0.00	700	0.08	733		
Wasting	0.00	1,029	0.09	0.09	0.03	664	0.00	746		
Severe wasting	0.01	1,062	0.03	0.02	0.02	657	0.01	677		
Child School Enrollment										
Enrollment among 6 to 11 years old	0.01	2,629	0.99	0.98	0.01	2,355	-0.01	1,710		
Enrollment among 12 to 15 years old	0.02	1,547	0.95	0.93	0.05	** 1,903	-0.19	828	*	*
Enrollment among 16 to 17 years old	0.13	* 769	0.93	0.79	0.22	*** 711	0.04	394		
Enrollment among 6 to 14 years old	0.02	4,151	0.98	0.97	0.02	** 3,502	-0.02	2,327		
Enrollment among 15 to 20 years old	0.01	2,395	0.77	0.76	0.15	*** 1,867	-0.08	1,212		

4Ps = Pantawid Pamilyang Pilipino Program, N = number of observations, RDD = regression discontinuity design.
 Notes: MSERD bandwidth selection method used; *** significant at 1%, ** significant at 5%, * significant at 10%.
 Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A9: Robustness Check 4, Fuzzy Regression Discontinuity Results without Instrumentation

Outcome	IV: Pooled Fuzzy RDD			IV: Monitoring Eligible vs Non-4Ps			IV: Monitoring Ineligible vs Non-4Ps		
	Coefficient	N	Treatment Mean	Control Mean	Coefficient	N	Coefficient	N	
Child Anthropometry									
Stunting	0.06	819	0.39	0.33	0.04	604	0.14	607	
Severe stunting	0.06	843	0.15	0.09	0.00	594	0.14	599	
Underweight	0.11	974	0.28	0.18	0.04	677	0.17	744	
Severe underweight	0.03	851	0.07	0.05	0.00	550	0.05	595	
Wasting	0.01	857	0.10	0.09	0.05	551	-0.01	621	
Severe wasting	0.01	889	0.03	0.02	0.02	537	0.00	567	
Child School Enrollment									
Enrollment among 6 to 11 years old	0.01	2,103	0.99	0.98	0.00	1,918	0.00	1,398	
Enrollment among 12 to 15 years old	0.01	1,232	0.95	0.94	0.05	** 1,567	-0.24	*** 671	
Enrollment among 16 to 17 years old	0.15	** 629	0.93	0.78	0.22	*** 573	0.07	335	
Enrollment among 6 to 14 years old	0.01	3,360	0.98	0.97	0.02	* 2,879	-0.02	1,892	
Enrollment among 15 to 20 years old	0.01	2,003	0.78	0.77	0.15	*** 1,628	-0.10	995	

4Ps = Pantawid Pamilyang Pilipino Program, N = number of observations, RDD = regression discontinuity design.

Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A10: Placebo Tests for Effects of Instrument for Monitoring Eligibility for Children in Non-Pantawid Pamilyang Pilipino Program Households

Child Health Outcomes				
Outcome	Coefficient	P-value	N	Adjusted R ²
Stunting	0.02	0.78	584	0.03
Severe Stunting	0.02	0.69	529	0.02
Underweight	-0.01	0.81	615	0.02
Severe Underweight	0.00	0.94	544	0.02
Underweight for Height	-0.03	0.44	417	0.05
Severe Underweight for Height	-0.04	0.13	481	0.01
Length for age Z-score	-0.12	0.50	526	0.07
Weight for age Z-score	-0.06	0.79	469	0.07
Weight for length Z-score	-0.04	0.78	463	0.04
Child Education Outcomes				
Outcome	Coefficient	P-value	N	Adjusted R ²
School enrollment ages 16–17	0.00	0.99	388	0.01
School enrollment ages 6–11	-0.02	0.19	1,272	0.00
School enrollment ages 12–15	0.02	0.87	824	0.05
School enrollment ages 6–14	-0.02	0.19	1,971	0.02
Enrollment - Elementary school	-0.03	0.18	1,317	0.04
Enrollment - High school	0.15	0.20	1,196	0.05
Enrollment - Senior high school	-0.02	0.89	401	0.09

N = number of observations.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A11: Description of Average Compliance Rates with the Pantawid Pamilyang Pilipino Program Conditionalities

Program Conditionality	4Ps	Non-4Ps
Health Conditionalities for Pregnant Women		
Pregnant household members should visit a health facility at least once every 2 months to avail of pre- and postnatal care services.	82% N:1,392	80% N:1,786
Pregnant women should avail of delivery services from a skilled health professional	87% N: 1,301	87% N: 1,675
Avail of postnatal care services within 6 weeks after delivery of child	83% N: 1,304	84% N: 1,680
Health Conditionalities for Children		
Children below 2 years old should be completely immunized according to prescribed vaccination schedule	17% N: 1,335	16% N: 1,677
Children 2 to 5 years old should visit health centers once every 2 months for regular weight monitoring	39% N: 1,213	34% N: 1,532
Children 6 to 14 years old must receive deworming pills at least twice per year	90% N: 4,050	87% N: 4,384
Education Conditionalities		
Children 3 to 5 years old should enroll in daycare or kindergarten and attend at least 85% of the school days in a month	22% N: 1,769	20% N: 2,277
Children 6 to 18 years old should enroll in elementary or high school and attend at least 85% of the school days in a month	81% N: 6221	78% N: 6869
Family Development Sessions Conditionality		
The 4Ps household grantee ^a and/or spouse must attend monthly family development sessions at least once per month.	37% N: 3,028	3% N: 3,834

4Ps = The Pantawid Pamilyang Pilipino Program, N = number of observations.

Note: ^a The grantee of Pantawid households refers to the mother or the most responsible adult member of the households authorized to withdraw or receive the grants.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Table A12. Balance Table for Household-Level Variables

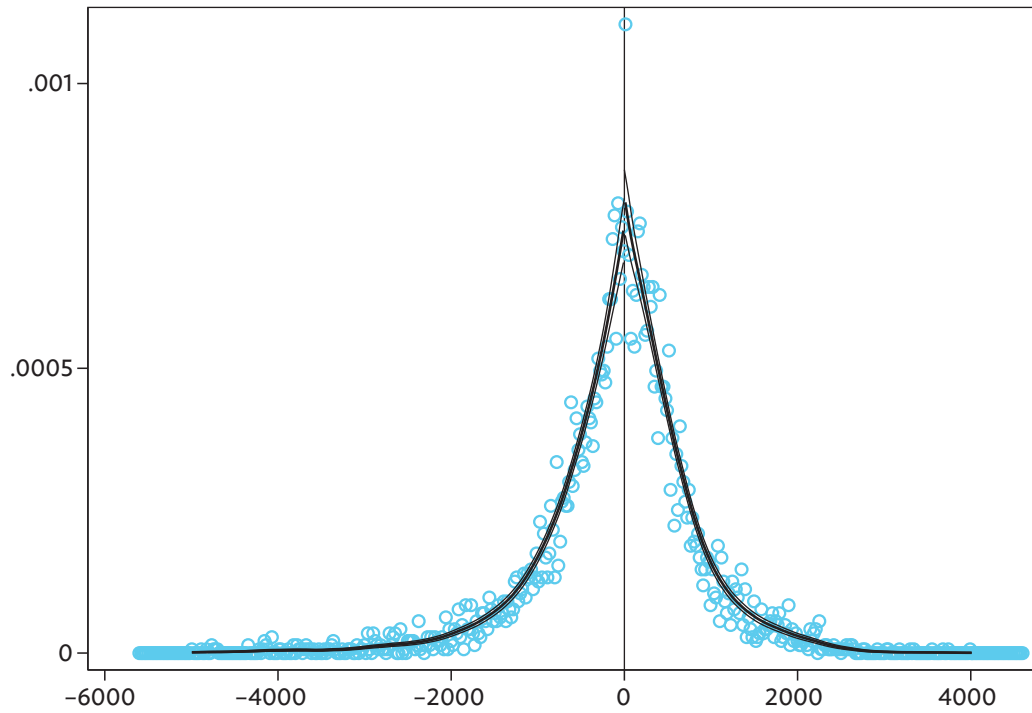
Attribute	Coefficient		N	Bandwidth Size	4Ps Mean	Non-4Ps Mean
Household size	-0.07		4,942	1,479	5.13	5.19
HH head gender: 1 = female, 0 = male	-0.05	**	4,437	1,227	0.73	0.72
HH head age	-2.39	***	4,336	1,184	47.42	48.77
HH head education	0.22		4,831	1,418	9.15	9.00
Number of children ages 0–5	0.05		3,902	1,005	0.44	0.43
Number of children ages 6–14	0.03		4,447	1,235	0.75	0.73
Number of children ages 15–18	-0.01		5,099	1,577	0.41	0.41
Urban or rural	-0.01		4,588	1,287	0.33	0.40
Annual total income, ₱	15,884.13	**	4,170	1,130	102,649	90,793
Annual total income – excluding grants, ₱	9,627.73		4,025	1,074	91,353	88,945
At least one HH member engaged in crop farming or gardening	-0.01		4,889	1,449	0.22	0.20
At least one HH member engaged in livestock or poultry raising	0.00		4,768	1,384	0.13	0.12
At least one HH member engaged in fishing	0.01		4,310	1,171	0.05	0.03
At least one HH member engaged in forestry and hunting	-0.01	*	4,185	1,116	0.01	0.01
At least one HH member engaged in agriculture and fishing	0.00		4,497	1,253	0.33	0.29
Single household	0.02		4,538	1,274	0.57	0.55

4Ps = Pantawid Pamilyang Pilipino Program, HH = household, N = number of observations, ₱ = Philippine pesos.

Notes: *** significant at 1%, ** significant at 5%, * significant at 10%.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Figure A1: McCrary Test



Notes: Each dot is the household level density estimate in a bin of 21 proxy means test score points. The bin size was calculated using the DCdensity command in Stata.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Figure A2. Regression Discontinuity Figures

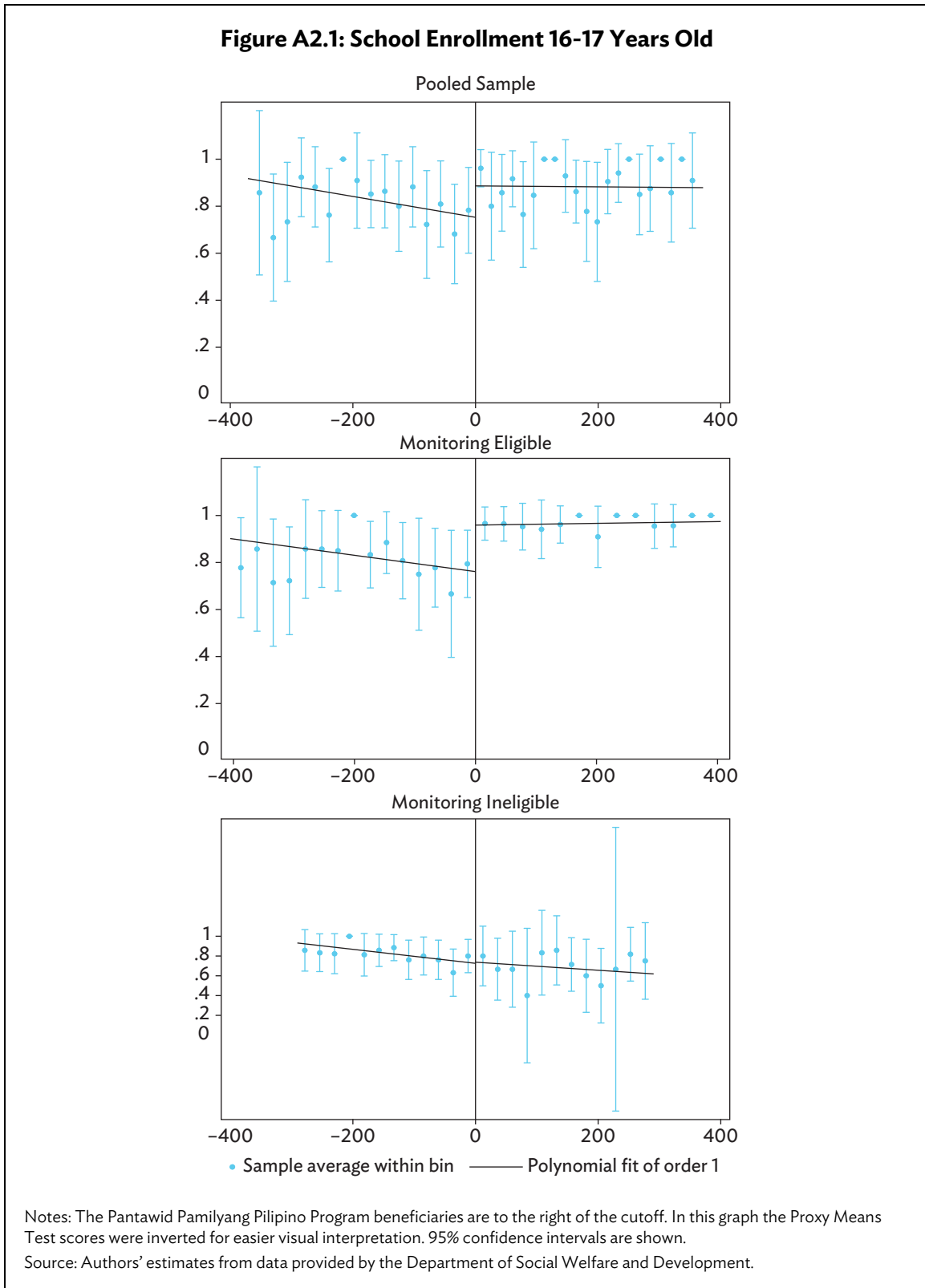
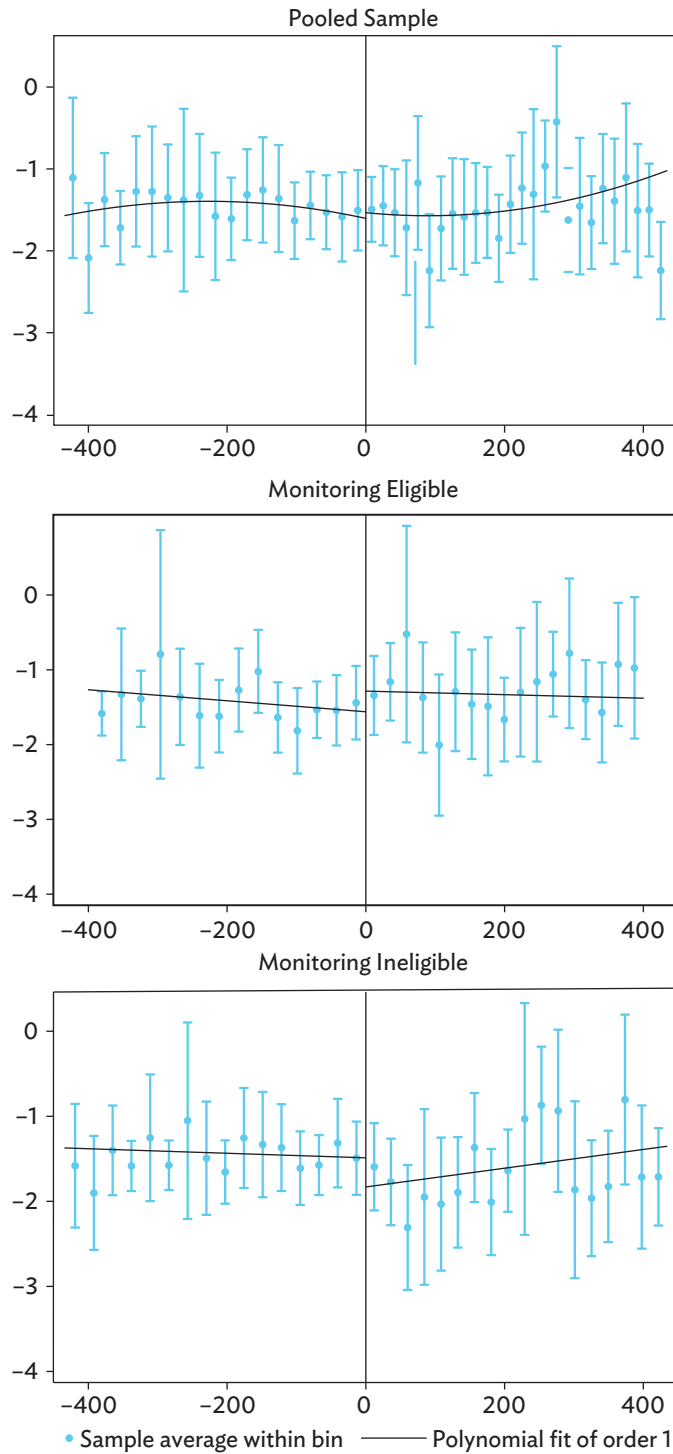


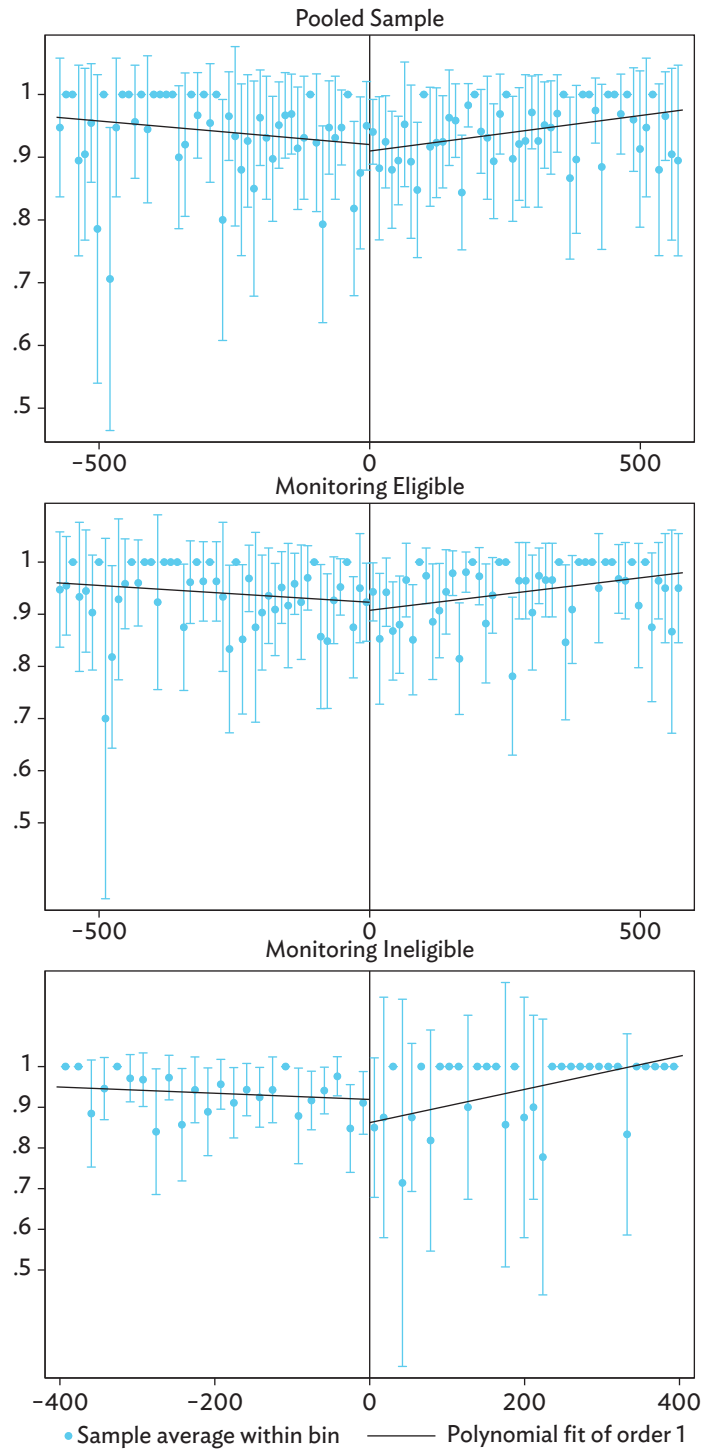
Figure A2.2: Length for Age Z-score



Notes: The Pantawid Pamilyang Pilipino Program beneficiaries are to the right of the cutoff. In this graph the Proxy Means Test scores were inverted for easier visual interpretation. 95% confidence intervals are shown.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

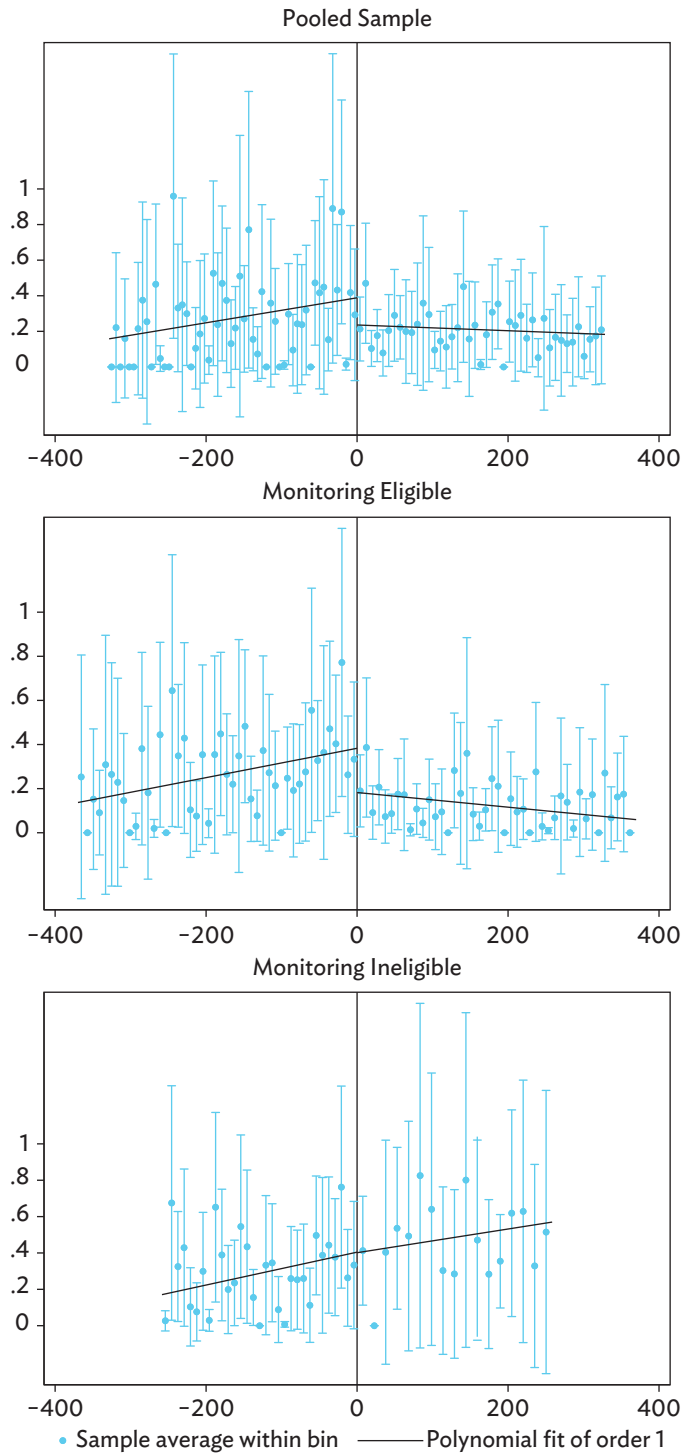
Figure A2.3: Child Literacy, Basic



Notes: The Pantawid Pamilyang Pilipino Program beneficiaries are to the right of the cutoff. In this graph the Proxy Means Test scores were inverted for easier visual interpretation. 95% confidence intervals are shown.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

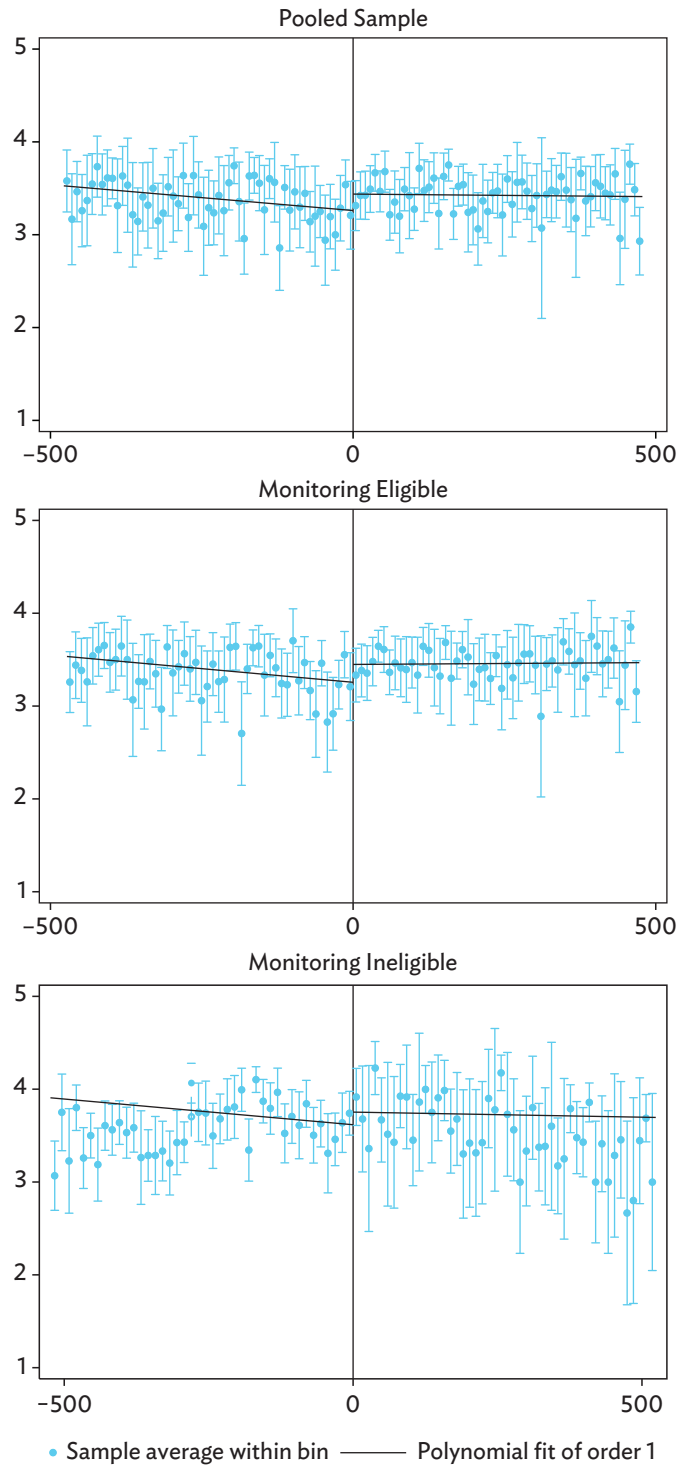
Figure A2.4: Log hours Worked in Paid Labor Ages 10–18



Notes: The Pantawid Pamilyang Pilipino Program beneficiaries are to the right of the cutoff. In this graph the Proxy Means Test scores were inverted for easier visual interpretation. 95% confidence intervals are shown.

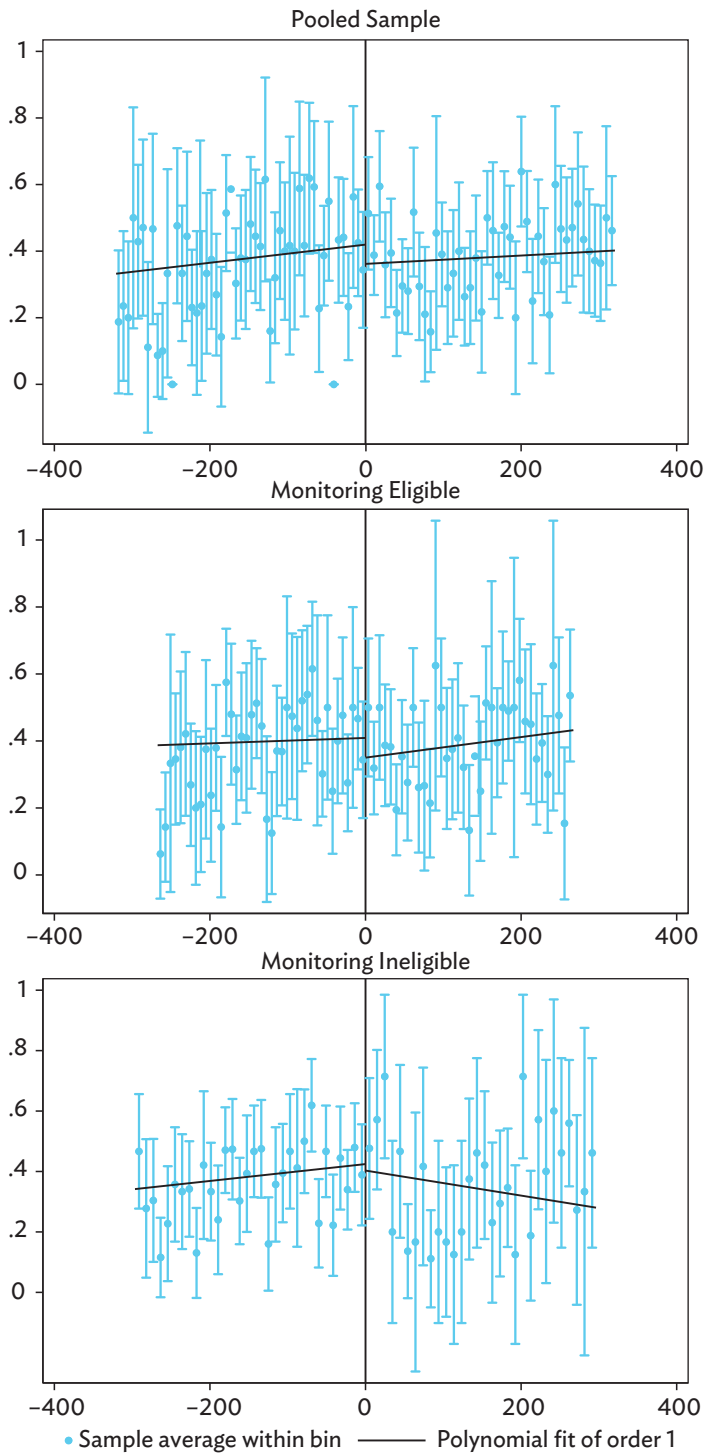
Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Figure A2.5: Child Grit Index



Notes: The Pantawid Pamilyang Pilipino Program beneficiaries are to the right of the cutoff. In this graph the Proxy Means Test scores were inverted for easier visual interpretation. 95% confidence intervals are shown.
 Source: Authors' estimates from data provided by the Department of Social Welfare and Development.

Figure A2.6: Both Parents have Authoritative Parenting Style



Notes: The Pantawid Pamilyang Pilipino Program beneficiaries are to the right of the cutoff. In this graph the Proxy Means Test scores were inverted for easier visual interpretation. 95% confidence intervals are shown.

Source: Authors' estimates from data provided by the Department of Social Welfare and Development.