

International Journal of Environmental Research and Public Health

Correction



Correction: Renzaho, A.M.N., et al. The Synergetic Effect of Targeted Resource Transfers for Families, Child Sensitive Social Protection Programs, and Capacity Building for Effective Social Protection on Children's Nutritional Status in Nepal. *Int. J. Environ. Res. Public Health* 2017, 14, 1502

Andre M. N. Renzaho ^{1,2,*}, Stanley Chitekwe ³, Wen Chen ^{1,4}, Sanjay Rijal ³, Thakur Dhakal ³ and Pradiumna Dahal ³

- ¹ Humanitarian and Development Studies, School of Social Sciences and Psychology, Western Sydney University, Locked Bag 1797, Penrith NSW 2751, Australia; Wen.Chen@westernsydney.edu.au
- ² School of Public Health and Preventive Medicine, Monash University, The Alfred Centre, 99 Commercial Road, Melbourne VIC 3004, Australia
- ³ UNICEF Nepal, Leknath Marg, Kathmandu 44600, Nepal; schitekwe@unicef.org (S.C.); sarijal@unicef.org (S.R.); tdhakal@unicef.org (T.D.); pdahal@unicef.org (P.D.)
- ⁴ Faculty of Medical Statistics and Epidemiology, School of Public Health, Sun Yat-sen University, Guangzhou 510080, China
- * Correspondence: Andre.Renzaho@westernsydney.edu.au

Received: 12 April 2018; Accepted: 15 April 2018; Published: 26 April 2018



The authors wish to add the following corrections to their paper published in the International Journal of Environmental Research and Public Health [1]. During the galley proof process, the production of the paper omitted the minus sign for the 95% CI of the results section on the project's impact on child underweight, wasting, and stunting in the abstract (p. 1) and the manuscript (p. 15).

In the abstract, the sentence regarding the result should be:

"Propensity score matched/weighted models produced better results than the unmatched analyses, and hence we report findings from the radius matching. The intervention resulted in a 5.2 (adjusted difference-in-difference [ADID] = -5.16; 95% CI: -9.55, -0.77), 7.4 (ADID: -7.35; 95% CI: -11.62, -3.08) and 2.8 (ADID = -2.84; 95% CI: -5.58, -0.10) percentage point reduction in the prevalence of stunting, underweight, and wasting among children under the age of five, respectively. The intervention impact was greater in boys than girls for stunting and wasting; and greater in girls than boys for underweight. The intervention also resulted in a 6.7 (ADID = -6.66; 95% CI: -12.13, -1.18), 11.4 (ADID = -11.4; 95% CI: -16.66, -6.13), and 4.1 (ADID = -4.10; 95% CI: -6.43, -1.78) percentage point reduction in the prevalence of stunting, underweight, and was observed among younger children (<24 months)."

The last two paragraphs in page 15 should be:

Our results suggest that the three matching estimators produced different effects on outcomes. The radius matching algorithm produced more robust results than the nearest neighbor or kernel matching estimators, and hence we report findings from the radius matching. The intervention had a positive impact on height-for-age z-scores (adjusted difference-in-difference (ADID) = 0.18; 95% CI: 0.09, 0.27, p < 0.05), weight-for-age z-scores (ADID = 0.22, 95% CI: 0.15, 0.19, p < 0.01), and weight-for-height z-scores (ADID = 0.19; 95% CI: 0.09, 0.30, p < 0.05).

The intervention resulted in a 5.2 (ADID = -5.16; 95% CI: -9.55, -0.77), 7.4 (ADID: -7.35; 95% CI: -11.62, -3.08) and 2.8 (ADID = -2.84; 95% CI: -5.58, -0.10) percentage point reduction in the proportion of children under the age of five who were stunted, underweight and wasted respectively. Among boys, the intervention resulted in a 6.2 (ADID = -6.15; 95% CI: -11.76, -0.53) and 3.3 (ADID = -3.33; 95% CI: -6.16, -0.49) percentage point reduction in the prevalence of stunting and wasting respectively, but no impact was observed for underweight. Among girls, improvements were observed only for underweight, with a 9.0 (ADID = -9.02; 95% CI: -15.10, -2.94) percentage point reduction in the prevalence of underweight. No impact was observed for stunting or wasting. The analysis by children's age groups revealed that the intervention resulted in a 6.7 (ADID = -6.66; 95% CI: -12.13, -1.18), 11.4 (ADID = -11.40; 95% CI: -16.66, -6.13), and 4.1 (ADID = -4.10; 95% CI: -6.43, -1.78) percentage point reduction in the prevalence of stunting among older children (\geq 24 months). No impact was observed among children younger than two years (Table 4; radius matching).

We deleted the word "baseline" in Figure 1:



Figure 1. Flow diagram detailing the intervention implementation plan and data collection phases.

We also made some changes on Tables 2–4; therefore, the Tables should be as follows:

All					Intervention						Control						Logit Model			
Matching Variables			Baseline Follow-Up					р	Baseline				Follow-U	р						
	Ν	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	Coefficient	SE	<i>p</i> -Value		
People per household	3000			750			750			750			750							
4 people or less		15.3%	36.0%		13.5%	34.2%		21.2%	40.9%		15.3%	36.1%		15.3%	36.1%	0.40	0.14	0.004		
5–8 people		63.8%	48.1%		64.8%	47.8%		65.2%	47.7%		60.5%	48.9%		60.5%	48.9%	0.16	0.10	0.111		
9 people or above		20.8%	40.6%		21.7%	41.3%		13.6%	34.3%		24.1%	42.8%		24.1%	42.8%	Ref				
Household wealth index	2899			724			710			731			731							
Poor		60.0%	49.0%		89.1%	31.2%		54.2%	49.9%		10.1%	30.2%		10.1%	30.2%	2.17	0.13	0.000		
Middle class		20.0%	40.0%		9.7%	29.6%		35.9%	48.0%		23.9%	42.7%		23.9%	42.7%	2.08	0.15	0.000		
Rich		20.0%	40.0%		1.2%	11.1%		9.9%	29.8%		65.9%	47.4%		65.9%	47.4%	Reference				
Child's age in months	3000	27.98	15.53	750	28.66	15.36	750	28.4	15.71	750	28.08	15.4	750	28.08	15.4	0.01	0.00	0.045		
Child's gender	3000			750			750			750			750							
Girl		43.4%	49.6%		44.8%	49.8%		43.6%	49.6%		43.7%	49.6%		43.7%	49.6%	Reference				
Boy		56.6%	49.6%		55.2%	49.8%		56.4%	49.6%		56.3%	49.6%		56.3%	49.6%	-0.08	0.08	0.322		
Ethnicity	3000			750			750			750			750							
Disadvantage ethnic		0.4%	6.6%		1.5%	12.0%		0.1%	3.7%		0.0%	0.0%		0.0%	0.0%	2.04	1.04	0.050		
groups		01 10/	10 00/		01 20/	41.00/		2E E0/	12 60/		16 00/	27 40/		16 00/	27 40/	0.01	0.10	0.011		
Upper caste Group		Z1.1 /0 78 5%	40.0%		21.3 /o 77 2%	41.0%		23.3 /o 74.4%	43.0%		10.0 /0 83.2%	37.4 /o 37.4%		10.0 /0 83.7%	37.4%	Reference	0.10	0.911		
Opper caste Gloup		70.37	41.1 /0		11.2/0	42.0 /0		74.470	43.7 /0		05.270	37.470		03.270	37.470	Reference				
Father's education	3000			750			750			750			750							
Intermediate or higher		12.6%	33.2%		2.1%	14.5%		16.8%	37.4%		5.6%	23.1%		25.9%	43.8%	Reference				
Secondary level		30.0%	45.8%		33.1%	47.1%		22.3%	41.6%		38.3%	48.6%		26.4%	44.1%	-0.05	0.14	0.744		
Primary or less		57.4%	49.5%		64.8%	47.8%		60.9%	48.8%		56.1%	49.7%		47.7%	50.0%	0.27	0.14	0.052		

Table 2. Summary statistics of the matching variables and estimates of	f logit regression models for stage 1 of propensity score matching
--	--

	Interve	ention	Compa	% Bias	
-	Unmatched	Matched	Unmatched	Matched	/0 D143
No. of people per household					
4 people or less	0.159	0.082	0.128	0.118	-10.30
5–8 people	0.657	0.664	0.629	0.659	1.20
9 people or more	0.184	0.254	0.243	0.223	7.40
Household wealth index					
Poor	0.717	0.648	0.484	0.683	-7.40
Middle class	0.227	0.275	0.174	0.240	8.80
Rich	0.056	0.077	0.342	0.077	0.00
Child's age in months	28.341	25.429	27.476	27.602	-14.00
Child's gender					
Girl	0.438	0.395	0.429	0.421	5.30
Boy	0.562	0.605	0.571	0.579	-5.30
Ethnicity					
Disadvantage ethnic groups	0.008	0.001	0.001	0.001	0.00
Dalit Hill/Terai	0.224	0.208	0.179	0.212	-1.00
Upper caste Group	0.768	0.791	0.820	0.787	1.00
Father's education					
Primary or less	0.630	0.496	0.519	0.540	-8.90
Secondary level	0.277	0.378	0.323	0.338	8.70
Intermediate or higher	0.093	0.127	0.158	0.122	-1.20

Table 3. Evaluation of standardized differences in matched sample.

			Origi	Matched Dataset: Matching Algorithms												
	Comparison	Intervention	Comparison	Intervention					Kernel !		Nea	arest Neighb	or !	Radiu	1s !#	
	N = 748	N = 743	N = 749	N = 750	ADID	95% CI		ADID	95% CI		ADID	95% CI		ADID	95% CI	
Girls ^a																
Height	77.2 (10.3)	77.8 (10.9)	78.7 (11.1)	78.8 (11.7)	0.17	-0.05	0.40	0.65	-0.87	2.18	0.01	-1.43	1.45	0.69	-0.99	2.36
Weight	9.3 (2.4)	9.3 (2.5)	9.7 (2.6)	9.8 (2.9)	0.31 ***	0.22	0.40	0.32	-0.06	0.71	0.13	-0.25	0.51	0.33 *	0.06	0.6
HAZ	-2.3 (1.3)	-2.6(1.4)	-2.1(1.3)	-2.2(1.3)	0.21	-0.01	0.44	0.11	-0.06	0.27	0.07	-0.18	0.32	0.15	-0.06	0.36
WAZ	-1.7(1.0)	-2.1(1.1)	-1.5(1.1)	-1.6(1.1)	0.33 ***	0.23	0.44	0.17 *	0.06	0.28	0.13	-0.1	0.37	0.19 *	0.09	0.29
WHZ	-0.5(0.9)	-0.8(1.1)	-0.5(1.0)	-0.4(1.0)	0.31 ***	0.15	0.46	0.17 *	0.05	0.3	0.13	-0.06	0.33	0.18	-0.01	0.36
Stunting	61.9	68	55.5	61	-3.98	-15.44	7.48	-2.65	-9.15	3.85	-5.07	-11.78	1.63	-4.24	-10.4	1.93
Underweight	37.1	53.1	30.8	34.9	-16.25 ***	-24.12	-8.38	-7.83 ***	-14.39	-1.26	-8.89	-18.96	1.17	-9.02 ***	-15.1	-2.94
Wasting	4.5	9.3	7	4.9	-9.29 ***	-15.86	-2.72	-2.62	-6.33	1.09	-3.31	-8.2	1.58	-2.47	-5.9	0.95
Boys ^a																
Height	80.2 (11.2)	80.6 (11.2)	82.4 (11.2)	81.6 (11.8)	-0.05	-1.17	1.06	0.21	-1.31	1.74	0.13	-1.13	1.39	0.22	-0.9	1.35
Weight	10.2 (2.6)	10.2 (2.7)	10.9 (2.8)	10.7 (3.0)	0.17	-0.17	0.52	0.23	-0.11	0.57	0.21	-0.23	0.66	0.25	-0.09	0.6
HAZ	-2.4(1.3)	-2.6(1.5)	-2.0(1.3)	-2.2(1.4)	0.14	-0.14	0.43	0.16 *	0	0.31	0.08	-0.17	0.33	0.22 *	0.08	0.35
WAZ	-1.7(1.0)	-2.1(1.1)	-1.4(1.1)	-1.6(1.1)	0.26	0.01	0.51	0.19 **	0.1	0.29	0.17 *	0.01	0.32	0.25 *	0.08	0.42
WHZ	-0.6(0.9)	-0.9(1.2)	-0.3(1.1)	-0.4(1.0)	0.27 ***	0.08	0.47	0.21 *	0.06	0.36	0.20 *	0.02	0.38	0.21 *	0.07	0.36
Stunting	63.7	65.7	50.8	58.8	0.69	-14.00	15.37	-4.14	-10.48	2.19	-1.27	-10.49	7.95	-6.15 *	-11.76	-0.53
Underweight	37.4	48.8	27.5	34.8	-9.74	-23.38	3.90	-5.03	-11.19	1.13	-3.39	-13.45	6.67	-6.49	-13.15	0.16
Wasting	6.6	15.3 ***	5.9	6.4	-9.55 ***	-14.46	-4.64	-3.11	-6.4	0.19	-3.54	-8.31	1.23	-3.33 *	-6.16	-0.49
<2 years ^b																
Height	70.0 (6.5)	69.6 (6.7)	70.8 (7.4)	69.2 (7.4)	-0.28	-1.16	0.60	-0.85 *	-1.67	-0.02	-0.91	-2.45	0.63	-0.81 *	-1.6	-0.02
Weight	7.8 (1.5)	7.5 (1.6)	8.1 (1.8)	7.6 (1.8)	0.03	-0.30	0.37	-0.15	-0.38	0.08	-0.17	-0.45	0.11	-0.14	-0.36	0.08
HĂZ	-2.0(1.4)	-2.2(1.5)	-1.6(1.4)	-1.9(1.5)	0.03	-0.21	0.28	0.12	-0.09	0.33	-0.1	-0.37	0.18	0.13	-0.08	0.33
WAZ	-1.5(1.1)	-2.0(1.2)	-1.2(1.2)	-1.6(1.2)	0.18	-0.04	0.41	0.08	-0.06	0.22	-0.01	-0.24	0.23	0.09	-0.08	0.27
WHZ	-0.6(0.9)	-1.1(1.3)	-0.5(1.1)	-0.7(1.1)	0.18	-0.04	0.41	0.05	-0.09	0.2	0.1	-0.15	0.34	0.07	-0.08	0.21
Stunting	52	58.2	39.8	50.8	2.76	-5.16	10.68	-2.48	-8.1	3.14	1.61	-6.44	9.66	-3.57	-10.37	3.23
Underweight	32.6	47.1	23.8	37.1	-5.39	-18.43	7.66	-0.46	-7.8	6.89	1.86	-8.42	12.15	-1.24	-8.08	5.6
Wasting	6.7	18.8	6.8	10.3	-9.19 ***	-15.81	-2.57	-1.2	-5.16	2.76	-1.91	-6.88	3.05	-1.03	-4.2	2.13
\geq 2 years ^b																
Height	87.1 (7.1)	86.4 (7.9)	88.3 (7.1)	87.9 (7.6)	0.53	-0.12	1.18	0.41	-0.18	1.01	0.59	-0.45	1.63	0.74	-0.16	1.64
Weight	11.7 (1.9)	11.4 (2.0)	12.1 (2.0)	12.1 (2.1)	0.39 ***	0.12	0.66	0.36 ***	0.12	0.6	0.44 **	0.18	0.69	0.44 ***	0.25	0.63
HĂZ	-2.6(1.1)	-2.8(1.2)	-2.4(1.1)	-2.4(1.3)	0.15	-0.02	0.31	0.17 *	0.06	0.28	0.12	-0.03	0.28	0.21 *	0.06	0.35
WAZ	-1.9(1.0)	-2.1 (1.1)	-1.6 (1.0)	-1.6 (1.0)	0.28 ***	0.12	0.44	0.28 ***	0.18	0.37	0.27 **	0.13	0.41	0.30 ***	0.19	0.41
WHZ	-0.5(0.9)	-0.6(1.0)	-0.3 (1.0)	-0.2(0.9)	0.29 ***	0.11	0.47	0.26 ***	0.17	0.35	0.29 **	0.12	0.46	0.27 ***	0.14	0.4
Stunting	73	73.1	62.8	65.8	0.05	-6.01	6.11	-4.82	-10.23	0.6	-4.05	-12.54	4.44	-6.66 **	-12.13	-1.18
Underweight	41.5	53.3	32.8	33.3	-14.87 ***	-23.27	-6.46	-10.45 ***	-16.02	-4.88	-9.2	-18.52	0.11	-11.40 ***	-16.66	-6.13
Wasting	4.9	8.2	6.1	2.7	-8.51 ***	-13.91	-3.11	-3.86 **	-5.98	-1.74	-6.22 **	-9.22	-3.22	-4.10 **	-6.43	-1.78

 Table 4. Program impact on child undernutrition.

Table 4. Cont.

All ^c																
Height	78.9 (10.9)	79.3 (11.1)	80.8 (11.3)	80.3 (11.9)	0.11	-0.51	0.72	0.42	-0.68	1.52	-0.11	-1.08	0.86	0.48	-0.33	1.28
Weight	9.8 (2.6)	9.8 (2.7)	10.4 (2.8)	10.3 (3.0)	0.26 **	0.05	0.47	0.27 *	0	0.55	0.17	-0.12	0.47	0.29	-0.01	0.6
HAZ	-2.3 (1.3)	-2.6(1.4)	-2.1(1.3)	-2.2 (1.4)	0.17 *	0.03	0.31	0.14 *	0.03	0.25	0.05	-0.12	0.23	0.18 *	0.09	0.27
WAZ	-1.7(1.0)	-2.1(1.1)	-1.4(1.1)	-1.6(1.1)	0.29 ***	0.15	0.44	0.19 **	0.11	0.28	0.18 *	0.07	0.29	0.22 **	0.15	0.29
WHZ	-0.5(0.9)	-0.8(1.1)	-0.4(1.1)	-0.4(1.0)	0.29 ***	0.15	0.42	0.18 *	0.09	0.28	0.24 *	0.08	0.4	0.19 *	0.09	0.3
Stunting	63	66.7	52.9	59.8	-1.34	-7.12	4.44	-3.51	-7.83	0.82	-2.18	-10.22	5.87	-5.16 *	-9.55	-0.77
Underweight	37.3	50.7	28.9	34.8	-12.54 ***	-19.82	-5.25	-6.29 ***	-10.96	-1.62	-5.19	-10.75	0.37	-7.35 ***	-11.62	-3.08
Wasting	5.8	12.7	6.4	5.7	-9.32 ***	-14.86	-3.79	-2.86 *	-4.91	-0.8	-4.84 ***	-8.62	-1.06	-2.84 **	-5.58	-0.1

* p < 0.05; ** p < 0.01; *** p < 0.001. ADID = Adjusted difference-in-differences. ^a Adjusted for father's educational attainment, household wealth index, child age, caste/ethnicity, and family size; weighted with bootstrapping; ^b Adjusted for father's educational attainment, household wealth index, caste/ethnicity, gender, and family size, weighted with bootstrapping; ^c Adjusted for father's educational attainment, household wealth index, caste/ethnicity, gender, child age in month, and family size, weighted with bootstrapping. # Radius = 0.02; ! Weighted with bootstrapping. Z scores for height-for-age (HAZ), weight-for-age (WAZ) and weight-height (WHZ).

We apologize for any inconvenience caused to the readers by this error.

Author Contributions: This study was designed and implemented by UNICEF Nepal. A.M.N.R. carried out the analyses and drafted the manuscript. All authors critically revised the manuscript for intellectual contents, and read and approved the final manuscript.

Conflicts of Interest: The authors declare no conflict of interest.

Reference

 Renzaho, A.M.N.; Chitekwe, S.; Chen, W.; Rijal, S.; Dhakal, T.; Dahal, P. The Synergetic Effect of Cash Transfers for Families, Child Sensitive Social Protection Programs, and Capacity Building for Effective Social Protection on Children's Nutritional Status in Nepal. *Int. J. Environ. Res. Public Health* 2017, 14, 1502. [CrossRef] [PubMed]



© 2018 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (http://creativecommons.org/licenses/by/4.0/).