Should Aid Reward Performance?
Evidence from a field experiment on health and education in Indonesia

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Appendix I: Details on Points

Generasi uses performance relative to a constant predicted minimum attainment level, rather than improvements over an actual baseline, to avoid the ratchet effect (Weitzman 1980), as well as to avoid the problems inherent in collecting reliable baseline data on performance on all indicators in all villages before the program began. For each of the 12 *Generasi* indicators *i*, the program set the predicted minimum attainment level, m_{vi}, in village *v* to be equal to 70 percent of the average achievement level for villages with similar levels of access to health and education providers and numbers of beneficiaries, calculated from the 2004 SUSENAS household survey and 2003 PODES census of villages.

For all health indicators except monthly weighings, access to providers was divided into three categories: 1) having a midwife practicing in the village, 2) not having a midwife in the village but having a midwife practicing within 4km from the center of the village, or 3) not having a midwife practicing within 4km of the village center. For middle school, access was divided into three categories: 1) having a middle school located in the village or within 4km of the village center, 2) having a middle school located between 5 and 9km of the village center, or 3) having a middle school located 10km or more from the village center. For monthly weighings and primary school, all villages were assumed to have the same level of access, since weighing of children is always conducted in the village at monthly *Posyandu* meetings and since all

virtually all villages in Indonesia have a primary school. The minimum level was set at 70 percent of the average to ensure that virtually all villages would be above the minimum threshold, and thus eligible for incentive payments, on each indicator.

The total allocation to each subdistrict is fixed exogenously based on population and province. In 2007 the average block grant for each subdistrict was USD 112,300 per subdistrict; in 2008, the average block grant was raised to USD 200,000 per subdistrict. A subdistrict contains roughly between 15,000 and 50,000 individuals and 10 to 20 villages.

Appendix II: Details on Sample Selection and Randomization

The *Generasi* locations were selected through the following procedure. First, 300 target subdistricts were identified, targeting poor, rural areas that had an existing community-driven development infrastructure. Locations were spread among five provinces from three different parts of the country: East Java and West Java (these are Indonesia's two most populous provinces, together containing about 35 percent of Indonesia's population), NTT (a relatively poor, remote set of islands in Southeastern Indonesia, typical of Indonesia's small island areas), and Gorontalo and North Sulawesi (located on Sulawesi, one of the three major islands other than Java).

Within these five provinces, the government eliminated the wealthiest 20 percent of districts (kabupaten), determined by the district's poverty rate, malnutrition rate, and junior secondary school transition rate, as well as the 28 percent of districts where the PNPM rural infrastructure project was not scheduled to operate in 2007. Since Generasi is implemented through the national PNPM program financial infrastructure, it could only be implemented in districts that were already included in the PNPM program. Twenty districts were randomly selected from the remaining eligible districts, stratified by island group. Within the twenty selected districts, subdistricts were eligible for Generasi if they had previously received the PNPM program or were considered less than 67 percent urban by the Central Statistics Office. A total of 300 subdistricts were identified in this way.

On net, the selected 300 subdistricts look broadly similar to all of rural Indonesia on the 12 targeted indicators. Specifically, we compared the 300 Generasi target subdistricts to the rest of rural Indonesia, excluding the conflict areas of Aceh and Papua, using the 2004 SUSENAS (i.e., before the Generasi program began). We find that the primary enrollment rate is 96 percent

in Generasi areas and 96 percent in non-Generasi areas. The junior secondary enrollment rates are 58 percent in Generasi and 61 percent in non-Generasi areas. For delivery by trained attendant, the rate is 48 percent in both Generasi and non-Generasi areas. The only substantial differences are that the rate of completed immunizations is 29 percent in Generasi areas vs. 22 percent in non-Generasi areas, and the rates for monthly weighings of the youngest child under 5 are 59 percent in Generasi areas vs. 48 percent in non-Generasi areas.

Each of these 300 subdistricts was then randomly assigned by computer into one of three equal-sized groups: incentivized *Generasi* (100 subdistricts), non-incentivized *Generasi* (100 subdistricts), or control (100 subdistricts). Within a subdistrict, all villages received the same treatment. The randomization was stratified by district (*kabupaten*), to ensure a balanced randomization across the 20 different districts in the study. Note that a total of 36 out of the 300 subdistricts in fact should not have been included in the randomization as they were ineligible for Generasi because they had been selected (prior to the randomization) to receive other programs or had had prior implementation problems with previous PNPM programs**.** Since the eligibility decision was made on the basis of lists determined prior to the randomization, and since we have obtained those lists for treatment and control areas, we exclude ineligible subdistricts in both treatment and control groups from our main analysis.[16]

The Generasi program was phased in over two years. In phasing in the program in the first year (2007), the government for budgetary reasons prioritized those locations that had

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[16]The determination that these subdistricts would be ineligible had been made prior to the randomization, but was not communicated to the study team, which is why they were included in the randomization. Subdistricts were deemed ineligible if they had been allocated to receive the urban poverty program (UPP), conflict area poverty program (SPADA), or if they had had a previous problem with PNPM implementation. We subsequently obtained the pre-randomization lists used to make this determination, and use these pre-randomization lists to restrict our sample (in both treatment and control areas) to those subdistricts that would actually be eligible for the program. Nevertheless, data collection surveys were conducted in all 300 subdistricts that were initially included in the randomization, regardless of the final eligibility, so as a robustness check we can alternatively estimate intent-to-treat effects using the full 300 subdistricts from the original randomization. See Appendix Table 2, Column 9.

previously participated in the PNPM rural infrastructure program (denoted group P), since those locations already had the legal infrastructure for distributing PNPM funds and it was easier to re-budget other monies to fund Generasi in those areas. After all group P subdistricts randomized to receive the program had been funded, the government held another lottery to select which remaining subdistricts (denoted group NP) would being receiving the program in 2007 and which would begin in 2008.[17] By year two of the program (2008) 96% of eligible subdistricts – 174 out of the 181 eligible subdistricts randomized to receive Generasi – were receiving the program. The remaining 7 eligible districts received the regular PNPM program instead of Generasi. The phase-in and final allocation of Generasi is shown in Table 2.

An important consideration for the analysis is the potential for differential provision of other programs in the pure control groups. The main potential avenue through which this might occur is other PNPM programs. Specifically, to ensure a fair allocation of funds, the Ministry of Home Affairs decided that no subdistrict would receive both the *Generasi* program and other PNPM programs, which typically fund local infrastructure (roads, bridges, etc.) and microcredit. In 2007, 17 (out of 83) eligible control subdistricts received other PNPM programs, while no treatment subdistricts did; in 2008, 31 (out of 83) eligible control subdistricts received other PNPM programs, as did the 7 eligible subdistricts did that should have been receiving Generasi in 2008 but received regular PNPM rural instead. Since regular PNPM programs tend to focus on basic infrastructure, not health and education, it is unlikely that the differential provision of other PNPM programs in control areas will have substantial impacts on the *Generasi* evaluation results. We have also verified empirically that the results are unchanged if we include a dummy

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[17] Specifically, in 2007 all 105 eligible group P subdistricts randomized to receive the program were funded. In group NP, in 2007 *Generasi* was funded in 22 eligible subdistricts. Of these 22 subdistricts, 21 were chosen randomly by computer, stratified by province, in a second lottery among Group NP locations. Group P status was determined prior to randomization. All but 7 of the remaining NP subdistricts were added in 2008.

for the subdistrict having received the regular PNPM program. (See Appendix Table 2.)

Nevertheless, in interpreting the results, it is important to recognize that the some portion of the

eligible "pure control" subdistricts received PNPM.

Appendix III: Checking for balance of baseline values

To check for balance across treatment arms, we estimate the relationship between the baseline survey values of the twelve major indicators that are the focus of the program (these indicators are discussed in more detail in Section 3 below) and the GENERASI and GENERASIINCENTIVES variables. We use the specification as in equation (1) and (2) above (though naturally we don't control for baseline values, since the baseline values are on the left hand side of the regression.)

The balance check is presented in Appendix Table 1. Column (2) shows the total estimated impact of the program in incentivized areas compared to pure controls, obtained by summing the coefficients on GENERASI and GENERASIINCENTIVES, where GENERASI is defined based on the randomization results and prioritization rules for year 1 implementation. Column (3) shows the total estimated impact of the program in non-incentivized areas, which is the coefficient on the GENERASI variable. Column (4) shows the effect of the incentives relative to the non-incentives, which is the coefficient on GENERASIINCENTIVES. Each row corresponds to a separate regression. Columns (5) – (7) repeat the same regressions, but with GENERASI and GENERASI incentives based on the randomization results for treatment in either year.

Looking across columns (2) through (7), we find that of the seventy-two coefficients estimated, eight are statistically significant at the 10 percent level or higher, which is precisely what would be predicted by random chance. Similarly, four of seventy-two coefficients are statistically significant at the 5 percent level or higher, and one is statistically significant at the 1 percent level, which is also what one would expect based on random chance. These results

confirm that the randomization was indeed carried out properly and that the treatment and control groups are balanced.

The final rows of Appendix Table 1 consider the average standardized effects, computed via equation (4). We report average standardized effects for all twelve of the main indicators, and then separately report average standardized effects for the eight health indicators and four education indicators. Three of the eighteen coefficients are statistically significant at the 10 percent level, once again consistent with what would expect based on random chance. One coefficient is statistically significant at the 1 percent level, which we regard as a fluke. Most important, none of the average standardized effects for the additional effect of the incentives (columns 4 and 7), which are the key coefficients of interest for this paper, show any statistically significant differences at baseline.

Appendix IV: Data

The sample for the surveys covers each of the 300 subdistricts that were included in the original Generasi randomization (i.e. the 264 eligible subdistricts plus 36 ineligible subdistricts). In each subdistrict, eight villages were randomly selected (unless the subdistrict had fewer than eight villages, in which case all were selected), resulting in a total of 2,313 villages that was sampled in each of the three survey waves. Approximately 12,000 households were interviewed in each survey wave, as well as more than 8,000 village officials and health and education providers.

The sampling design for the household component of the Generasi surveys was chosen to ensure adequate coverage in the key Generasi demographic groups: mothers who recently were pregnant or gave birth, children under age 3, and children of school age. Within each village, one hamlet (dusun) was randomly selected, and a list of all households was obtained from the head of the hamlet. Five households were randomly sampled from that list to be interviewed. These households were stratified so that two selected households had at least one child under age 2, two selected households had a child under age 15 but no children under age 2, and one household had no children under age 15. In Wave II and Wave III, in half of the randomly selected villages (four villages out of the eight villages sampled in every subdistrict), the same households sampled in Wave I were contacted again in subsequent waves to form an individual level panel.[18] In the other half of villages, a new cross-section of households was drawn in each survey wave. The combination of panel households and non-panel households allows us to investigate

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[18] Teams tracked and re-interviewed migrated or split households who provided information for any of the married women or children modules, as long as they were within the same subdistrict. In panel areas, 95% of target households were able to be reinterviewed in Wave 2 and 98% of target households were able to be reinterviewed in Wave 3.

heterogeneous treatment effects based on pre-period income levels and other characteristics, while at the same time ensuring that sufficient respondents with recent births and young children are enrolled in the survey sample in every round. Additional details about the surveys can be found in Olken, Onishi, and Wong (2011).

Appendix Table 1: Balance checks using baseline data, 12 main indicators

Indicator	Control Group Mean	Baseline Data, Effect of Year 1 Treatment Dummy			Baseline Data, Effect of Year 1 or 2 Treatment		
		Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Number prenatal visits	7.808	-0.341	-0.125	-0.216	-0.3794*	-0.186	-0.194
	[4.4482]	(0.263)	(0.267)	(0.259)	(0.228)	(0.223)	(0.208)
Delivery by trained midwife	0.691	-0.020	-0.026	0.005	-0.035	-0.018	-0.017
	[0.4623]	(0.029)	(0.030)	(0.031)	(0.026)	(0.026)	(0.025)
Number of postnatal visits	3.012	-0.010	0.195	-0.206	-0.080	0.023	-0.102
	[3.3234]	(0.196)	(0.211)	(0.199)	(0.190)	(0.192)	(0.172)
Iron tablet sachets	1.591	-0.071	-0.018	-0.054	-0.058	0.008	-0.065
	[1.2790]	(0.070)	(0.078)	(0.073)	(0.066)	(0.067)	(0.061)
Percent of immunization	0.680	-0.0381*	-0.036	-0.003	-0.0509***	-0.0416**	-0.009
	[0.3519]	(0.021)	(0.023)	(0.023)	(0.019)	(0.019)	(0.018)
Number of weight checks	2.140	-0.091	-0.047	-0.044	-0.1509**	-0.046	-0.1053*
	[1.1898]	(0.060)	(0.069)	(0.065)	(0.058)	(0.059)	(0.055)
Number Vitamin A supplements	1.521	0.097	-0.031	0.1275*	0.057	-0.035	0.0922*
	[1.1686]	(0.061)	(0.063)	(0.066)	(0.058)	(0.060)	(0.056)
Percent malnourished	0.173	0.022	0.006	0.015	0.009	0.001	0.008
	[0.3784]	(0.016)	(0.015)	(0.017)	(0.014)	(0.014)	(0.014)
Age 7–12 participation rate	0.950	0.006	-0.006	0.012	0.000	0.001	-0.001
	[0.2191]	(0.009)	(0.009)	(0.008)	(0.008)	(0.008)	(0.008)
Age 13–15 participation rate	0.825	0.017	0.000	0.017	0.001	0.018	-0.016
	[0.3801]	(0.027)	(0.028)	(0.027)	(0.024)	(0.025)	(0.022)
Age 7–12 gross attendance	0.910	-0.006	-0.0287**	0.023	-0.011	-0.011	0.000
	[0.2685]	(0.014)	(0.014)	(0.016)	(0.013)	(0.012)	(0.013)
Age 13–15 gross attendance	0.752	0.036	0.003	0.033	0.027	0.036	-0.009
	[0.4196]	(0.031)	(0.032)	(0.033)	(0.029)	(0.030)	(0.027)
Average standardized effect		-0.016	-0.029	0.013	-0.0365*	-0.012	-0.024
		(0.023)	(0.024)	(0.023)	(0.021)	(0.022)	(0.020)
Average standardized effect health		-0.0415*	-0.027	-0.014	-0.0589***	-0.032	-0.027
		(0.025)	(0.029)	(0.026)	(0.022)	(0.024)	(0.022)
Average standardized effect educ.		0.035	-0.031	0.066	0.008	0.026	-0.018
		(0.047)	(0.050)	(0.049)	(0.042)	(0.044)	(0.040)

Notes: Each row of columns (2) – (4) and (5) – (7) show coefficients from a regression of the variable shown on an incentive treatment dummy, a non-incentive treatment dummy, district fixed effects, and province * group P fixed effects. Robust standard errors in parentheses, adjusted for clustering at the subdistrict level. In columns (2) – (4) the treatment variable is defined based on year 1 program placement, and in columns (5) – (7) it is defined based on year 2 program placement. Columns (4) and (7) are the calculated difference between the previous two columns. All treatment variables are defined using the original randomization, and so are interpretable as intent-to-treat estimates. Average standardized effects reported in the bottom three rows are calculated using the estimated coefficients from the 12 individual regressions above using the formula shown in the text, adjusted for arbitrary cross-equation clustering of standard errors within subdistricts. * = 10% significance, ** = 5% significance, *** = 1% significance.

Appendix Table 2: Robustness of main results to alternative specifications
Wave II

Indicator	(1) Baseline mean	(2) Control mean	(3) Main specification	(4) Baseline controls for all 12 indicators	(5) Baseline controls for kecamatan averages only (no individual panel)	(6) No controls	(7) First differences	(8) Kecamatan level regression, with baseline control	(9) Full Intent-to-treat on 300 kecamatan, controlling for kecamatan avg
Number prenatal visits	7.447	7.464	0.6129***	0.5661***	0.5885***	0.4963**	0.8315***	0.5883**	0.5219**
	[4.2935]	[4.1639]	(0.220)	(0.216)	(0.218)	(0.236)	(0.273)	(0.241)	(0.209)
Delivery by trained midwife	0.670	0.755	-0.005	0.000	-0.001	0.005	-0.011	0.010	0.007
	[0.4705]	[0.4303]	(0.025)	(0.024)	(0.026)	(0.030)	(0.032)	(0.027)	(0.026)
Number of postnatal visits	1.720	1.737	-0.104	-0.146	-0.090	-0.106	-0.059	-0.105	-0.073
	[2.4477]	[2.4079]	(0.140)	(0.136)	(0.142)	(0.144)	(0.185)	(0.159)	(0.137)
Iron tablet sachets	1.588	1.977	0.078	0.071	0.077	0.070	0.135	0.074	0.056
	[1.2554]	[1.4426]	(0.081)	(0.081)	(0.081)	(0.081)	(0.102)	(0.085)	(0.077)
Percent of immunization	0.653	0.693	0.015	0.015	0.015	0.013	0.029	0.012	0.008
	[0.3664]	[0.3441]	(0.018)	(0.018)	(0.018)	(0.020)	(0.027)	(0.022)	(0.018)
Number of weight checks	2.126	2.192	0.0958*	0.1010*	0.0970*	0.085	0.1310*	0.1125*	0.1113**
	[1.1895]	[1.1718]	(0.054)	(0.056)	(0.054)	(0.058)	(0.072)	(0.061)	(0.053)
Number Vitamin A supplements	1.529	1.560	-0.013	-0.013	-0.004	0.000	-0.077	-0.019	0.016
	[1.1370]	[1.0089]	(0.058)	(0.057)	(0.059)	(0.062)	(0.090)	(0.066)	(0.060)
Percent malnourished	0.168	0.199	-0.0265*	-0.023	-0.024	-0.023	-0.0396*	-0.018	-0.021
	[0.3739]	[0.3995]	(0.016)	(0.016)	(0.016)	(0.015)	(0.023)	(0.017)	(0.015)
Age 7–12 gross enrollment	0.948	0.982	-0.004	-0.004	-0.004	-0.002	-0.0184*	-0.004	-0.006
	[0.2221]	[0.1334]	(0.006)	(0.005)	(0.006)	(0.006)	(0.011)	(0.006)	(0.005)
Age 13–15 gross enrollment	0.822	0.906	0.016	0.013	0.012	0.019	-0.003	-0.003	0.023
	[0.3827]	[0.2928]	(0.024)	(0.022)	(0.025)	(0.025)	(0.035)	(0.026)	(0.024)
Age 7–12 gross attendance	0.904	0.956	-0.001	-0.001	-0.001	0.000	-0.012	-0.001	-0.006
	[0.2773]	[0.1568]	(0.006)	(0.006)	(0.006)	(0.006)	(0.026)	(0.006)	(0.006)
Age 13–15 gross attendance	0.768	0.884	0.025	0.025	0.012	0.021	-0.025	-0.003	0.023
	[0.4125]	[0.3022]	(0.025)	(0.023)	(0.026)	(0.026)	(0.040)	(0.028)	(0.025)
Average standardized effect			0.036	0.033	0.032	0.035	0.017	0.049	0.034
			(0.024)	(0.022)	(0.024)	(0.027)	(0.029)	(0.060)	(0.023)
Average standardized effect health			0.0406*	0.0374*	0.0418*	0.038	0.0545**	0.0946*	0.0418*
			(0.024)	(0.023)	(0.024)	(0.029)	(0.027)	(0.057)	(0.023)
Average standardized effect educ.			0.027	0.024	0.013	0.031	-0.058	-0.044	0.019
			(0.045)	(0.041)	(0.047)	(0.049)	(0.067)	(0.119)	(0.045)

Note: See Notes to Table 3. Reported coefficients in columns (3) – (11) are the coefficients on the additional effect of the incentives, i.e. as in columns (4), (7), and (10) of Table 3. Column (3) repeats the analogous regression from Table 3. Column (4) adds baseline controls for all 12 indicators in all regressions, not just the dependent variable of the regression. Column (5) includes baseline controls for subdistrict baseline average values, rather than also including individual controls. Column (6) has no baseline control variables. Column (7) is estimated using first-differences, rather than controlling for baseline values. Column (8) aggregates all data to the subdistrict level, with one observation per subdistrict, controlling for the subdistrict baseline average. Column (9) is the full "intent-to-treat" indicator on all 300 subdistricts included in the original randomization, rather than the 264 eligible subdistricts. Column (10) sets all baseline values conducted after Generasi fieldwork began to missing. Column (11) adds controls for whether the subdistrict also received the regular non-Generasi PNPM program.

Indicator	(10) Baseline conducted after initial fieldwork set to missing	(11) Controls for PNPM
Number prenatal visits	0.6474***	0.6123***
	(0.226)	(0.220)
Delivery by trained midwife	0.014	-0.005
	(0.026)	(0.025)
Number of postnatal visits	-0.076	-0.103
	(0.142)	(0.140)
Iron tablet sachets	0.085	0.078
	(0.082)	(0.081)
Percent of immunization	0.017	0.015
	(0.019)	(0.018)
Number of weight checks	0.083	0.0958*
	(0.055)	(0.054)
Number Vitamin A supplements	-0.004	-0.013
	(0.058)	(0.058)
Percent malnourished	-0.0272*	-0.0260*
	(0.015)	(0.016)
Age 7–12 gross enrollment	-0.003	-0.004
	(0.006)	(0.006)
Age 13–15 gross enrollment	0.011	0.016
	(0.024)	(0.024)
Age 7–12 gross attendance	0.000	-0.001
	(0.006)	(0.006)
Age 13–15 gross attendance	0.020	0.025
	(0.025)	(0.025)
Average standardized effect	0.0396*	0.036
	(0.024)	(0.024)
Average standardized effect health	0.0496**	0.0405*
	(0.025)	(0.024)
Average standardized effect educ.	0.020	0.028
	(0.045)	(0.045)

Indicator	(1) Baseline mean	(2) Control mean	(3) Main specification	(4) Baseline controls for all 12 indicators	(5) Baseline controls for kecamatan averages only (no individual panel)	(6) No controls	(7) First differences	(8) Kecamatan level regression, with baseline control	(9) Full Intent-to-treat on 300 kecamatan, controlling for kecamatan avg
Number prenatal visits	7.447	7.639	0.181	0.187	0.186	0.134	0.368	0.231	0.098
	[4.2935]	[4.2297]	(0.173)	(0.174)	(0.173)	(0.173)	(0.257)	(0.187)	(0.165)
Delivery by trained midwife	0.670	0.780	0.019	0.018	0.021	0.021	0.020	0.015	0.018
	[0.4705]	[0.4144]	(0.021)	(0.021)	(0.021)	(0.022)	(0.031)	(0.023)	(0.021)
Number of postnatal visits	1.720	1.634	-0.003	0.032	-0.001	-0.017	0.057	-0.048	-0.017
	[2.4477]	[2.4597]	(0.129)	(0.129)	(0.129)	(0.129)	(0.163)	(0.137)	(0.122)
Iron tablet sachets	1.588	1.741	0.031	0.026	0.032	0.029	0.083	0.026	0.002
	[1.2554]	[1.2748]	(0.063)	(0.064)	(0.063)	(0.064)	(0.083)	(0.069)	(0.060)
Percent of immunization	0.653	0.756	0.017	0.017	0.017	0.012	0.025	0.008	0.013
	[0.3664]	[0.2858]	(0.014)	(0.014)	(0.014)	(0.015)	(0.020)	(0.016)	(0.013)
Number of weight checks	2.126	2.262	-0.024	-0.017	-0.024	-0.052	0.058	-0.046	-0.021
	[1.1895]	[1.1204]	(0.051)	(0.049)	(0.051)	(0.052)	(0.068)	(0.054)	(0.048)
Number Vitamin A supplements	1.529	1.454	0.083	0.1059**	0.083	0.055	-0.012	0.005	0.070
	[1.1370]	[0.9520]	(0.053)	(0.051)	(0.053)	(0.057)	(0.081)	(0.067)	(0.052)
Percent malnourished	0.168	0.228	0.009	0.007	0.009	0.009	0.001	0.009	0.006
	[0.3739]	[0.4199]	(0.016)	(0.017)	(0.016)	(0.016)	(0.023)	(0.017)	(0.015)
Age 7–12 gross enrollment	0.948	0.985	-0.006	-0.004	-0.005	-0.005	-0.012	-0.004	-0.005
	[0.2221]	[0.1207]	(0.005)	(0.004)	(0.005)	(0.005)	(0.009)	(0.005)	(0.004)
Age 13–15 gross enrollment	0.822	0.874	0.007	0.011	0.011	0.011	0.034	0.011	0.019
	[0.3827]	[0.3327]	(0.014)	(0.014)	(0.014)	(0.015)	(0.026)	(0.017)	(0.014)
Age 7–12 gross attendance	0.904	0.960	-0.001	0.000	-0.001	-0.001	0.006	0.002	0.000
	[0.2773]	[0.1463]	(0.006)	(0.006)	(0.006)	(0.006)	(0.021)	(0.006)	(0.006)
Age 13–15 gross attendance	0.768	0.860	0.010	0.019	0.012	0.017	0.002	0.015	0.017
	[0.4125]	[0.3364]	(0.015)	(0.015)	(0.015)	(0.016)	(0.033)	(0.019)	(0.015)
Average standardized effect			0.018	0.027	0.021	0.015	0.032	0.020	0.018
			(0.019)	(0.019)	(0.019)	(0.020)	(0.027)	(0.052)	(0.018)
Average standardized effect health			0.026	0.032	0.027	0.016	0.041	0.013	0.018
			(0.022)	(0.022)	(0.022)	(0.023)	(0.028)	(0.052)	(0.021)
Average standardized effect educ.			0.003	0.016	0.008	0.013	0.016	0.035	0.020
			(0.027)	(0.027)	(0.027)	(0.027)	(0.051)	(0.093)	(0.027)

Indicator	(10) Baseline conducted after initial fieldwork set to missing	(11) Controls for PNPM
Number prenatal visits	0.183	0.173
	(0.175)	(0.172)
Delivery by trained midwife	0.027	0.019
	(0.021)	(0.021)
Number of postnatal visits	0.002	-0.004
	(0.130)	(0.129)
Iron tablet sachets	0.028	0.029
	(0.064)	(0.063)
Percent of immunization	0.016	0.017
	(0.014)	(0.014)
Number of weight checks	-0.040	-0.026
	(0.052)	(0.050)
Number Vitamin A supplements	0.082	0.083
	(0.052)	(0.053)
Percent malnourished	0.010	0.010
	(0.016)	(0.016)
Age 7–12 gross enrollment	-0.006	-0.006
	(0.005)	(0.005)
Age 13–15 gross enrollment	0.005	0.007
	(0.015)	(0.014)
Age 7–12 gross attendance	-0.001	-0.001
	(0.006)	(0.006)
Age 13–15 gross attendance	0.008	0.009
	(0.016)	(0.015)
Average standardized effect	0.017	0.017
	(0.020)	(0.019)
Average standardized effect health	0.026	0.025
	(0.023)	(0.022)
Average standardized effect educ.	-0.001	0.002
	(0.027)	(0.027)

Pooled

Indicator	Baseline mean	Control mean	Main specification	Baseline controls for all 12 indicators	Baseline controls for kecamatan averages only (no individual panel)	No controls	First differences	Kecamatan level regression, with baseline control	Full Intent-to-treat on 300 kecamatan, controlling for kecamatan avg
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Number prenatal visits	7.447	7.551	0.3706**	0.3547**	0.3622**	0.2925*	0.5711**	0.3782**	0.2811**
	[4.2935]	[4.1963]	(0.147)	(0.146)	(0.147)	(0.155)	(0.225)	(0.148)	(0.143)
Delivery by trained midwife	0.670	0.768	0.009	0.011	0.012	0.015	0.007	0.013	0.014
	[0.4705]	[0.4223]	(0.018)	(0.018)	(0.019)	(0.021)	(0.027)	(0.017)	(0.018)
Number of postnatal visits	1.720	1.685	-0.048	-0.047	-0.041	-0.056	0.003	-0.072	-0.043
	[2.4477]	[2.4339]	(0.101)	(0.099)	(0.102)	(0.105)	(0.144)	(0.104)	(0.096)
Iron tablet sachets	1.588	1.860	0.052	0.047	0.052	0.047	0.106	0.046	0.026
	[1.2554]	[1.3669]	(0.051)	(0.049)	(0.051)	(0.051)	(0.074)	(0.054)	(0.049)
Percent of immunization	0.653	0.724	0.016	0.017	0.016	0.012	0.027	0.010	0.011
	[0.3664]	[0.3183]	(0.011)	(0.011)	(0.011)	(0.012)	(0.020)	(0.013)	(0.011)
Number of weight checks	2.126	2.227	0.028	0.034	0.028	0.007	0.089	0.019	0.035
	[1.1895]	[1.1464]	(0.040)	(0.040)	(0.041)	(0.043)	(0.061)	(0.041)	(0.040)
Number Vitamin A supplements	1.529	1.507	0.037	0.050	0.042	0.029	-0.043	-0.005	0.045
	[1.1370]	[0.9819]	(0.038)	(0.039)	(0.039)	(0.040)	(0.072)	(0.048)	(0.037)
Percent malnourished	0.168	0.214	-0.006	-0.006	-0.005	-0.005	-0.017	-0.002	-0.006
	[0.3739]	[0.4100]	(0.013)	(0.013)	(0.013)	(0.012)	(0.020)	(0.012)	(0.012)
Age 7–12 gross enrollment	0.948	0.984	-0.005	-0.004	-0.005	-0.004	-0.015	-0.004	-0.005
	[0.2221]	[0.1274]	(0.004)	(0.004)	(0.004)	(0.004)	(0.009)	(0.004)	(0.004)
Age 13–15 gross enrollment	0.822	0.891	0.011	0.011	0.011	0.014	0.019	0.005	0.020
	[0.3827]	[0.3125]	(0.014)	(0.013)	(0.015)	(0.015)	(0.025)	(0.015)	(0.015)
Age 7–12 gross attendance	0.904	0.958	-0.001	0.000	-0.001	0.000	-0.001	0.001	-0.002
	[0.2773]	[0.1517]	(0.005)	(0.005)	(0.005)	(0.005)	(0.022)	(0.005)	(0.005)
Age 13–15 gross attendance	0.768	0.872	0.015	0.020	0.011	0.018	-0.009	0.007	0.019
	[0.4125]	[0.3189]	(0.015)	(0.014)	(0.015)	(0.016)	(0.032)	(0.016)	(0.015)
Average standardized effect			0.025	0.0283*	0.025	0.023	0.027	0.031	0.025
			(0.016)	(0.016)	(0.016)	(0.018)	(0.024)	(0.042)	(0.016)
Average standardized effect health			0.0327*	0.0336*	0.0327*	0.025	0.0462*	0.047	0.028
			(0.018)	(0.018)	(0.018)	(0.021)	(0.024)	(0.043)	(0.018)
Average standardized effect educ.			0.009	0.018	0.009	0.019	-0.012	-0.001	0.019
			(0.027)	(0.025)	(0.027)	(0.028)	(0.052)	(0.078)	(0.027)

Indicator	(10) Baseline conducted after initial fieldwork set to missing	(11) Controls for PNPM
Number prenatal visits	0.3861**	0.3669**
	(0.152)	(0.147)
Delivery by trained midwife	0.022	0.009
	(0.018)	(0.018)
Number of postnatal visits	-0.034	-0.048
	(0.103)	(0.101)
Iron tablet sachets	0.053	0.051
	(0.051)	(0.051)
Percent of immunization	0.017	0.016
	(0.012)	(0.011)
Number of weight checks	0.013	0.027
	(0.042)	(0.040)
Number Vitamin A supplements	0.041	0.037
	(0.038)	(0.038)
Percent malnourished	-0.006	-0.006
	(0.012)	(0.013)
Age 7–12 gross enrollment	-0.005	-0.005
	(0.004)	(0.004)
Age 13–15 gross enrollment	0.007	0.011
	(0.014)	(0.014)
Age 7–12 gross attendance	-0.001	-0.001
	(0.005)	(0.005)
Age 13–15 gross attendance	0.012	0.015
	(0.015)	(0.015)
Average standardized effect	0.026	0.024
	(0.017)	(0.016)
Average standardized effect health	0.0356*	0.0311*
	(0.019)	(0.018)
Average standardized effect educ.	0.006	0.011
	(0.026)	(0.026)

Appendix Table 3: Regional Heterogeneity for Main 12 Indicators

Wave II

	Wave II								
Indicator	Java Incentive Treatment Effect	Additional NTT Incentive Treatment Effect	Additional Sulawesi Incentive Treatment Effect	Java Non-Incentive Treatment Effect	Additional NTT Non-Incentive Treatment Effect	Additional Sulawesi Non-Incentive Treatment Effect	Java Incentive Additional Effect	Additional NTT Incentive Additional Effect	Additional Sulawesi Incentive Additional Effect
Main 12 indicators	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Number prenatal visits	0.4776*	-0.9764*	0.594	0.059	-1.2910***	-0.331	0.4182*	0.315	0.925
	(0.270)	(0.506)	(0.822)	(0.239)	(0.488)	(0.629)	(0.245)	(0.445)	(0.928)
Delivery by trained midwife	0.022	-0.030	0.1319**	0.0773***	-0.1734**	0.031	-0.0555**	0.1432**	0.1013*
	(0.028)	(0.073)	(0.062)	(0.028)	(0.071)	(0.058)	(0.028)	(0.064)	(0.053)
Number of postnatal visits	-0.4151**	0.479	0.8517**	0.006	-0.4424*	0.281	-0.4207**	0.9216***	0.571
	(0.175)	(0.309)	(0.361)	(0.160)	(0.244)	(0.353)	(0.171)	(0.292)	(0.433)
Iron tablet sachets	0.109	0.062	0.033	0.159	-0.232	-0.3834**	-0.051	0.2936*	0.4166*
	(0.115)	(0.172)	(0.226)	(0.110)	(0.176)	(0.187)	(0.107)	(0.172)	(0.219)
Percent of immunization	0.000	0.045	0.1194*	-0.013	0.062	0.049	0.013	-0.017	0.070
	(0.018)	(0.043)	(0.070)	(0.022)	(0.038)	(0.059)	(0.023)	(0.041)	(0.060)
Number of weight checks	0.1212**	0.028	0.265	0.030	0.056	0.152	0.092	-0.028	0.114
	(0.061)	(0.101)	(0.209)	(0.067)	(0.111)	(0.123)	(0.065)	(0.120)	(0.186)
Number Vitamin A supplements	0.072	-0.3298***	-0.046	0.016	-0.134	0.099	0.056	-0.1957*	-0.145
	(0.060)	(0.123)	(0.189)	(0.070)	(0.124)	(0.168)	(0.072)	(0.114)	(0.243)
Percent malnourished	0.006	-0.0638*	-0.037	0.008	0.001	0.014	-0.002	-0.0643*	-0.051
	(0.018)	(0.039)	(0.055)	(0.017)	(0.038)	(0.043)	(0.019)	(0.036)	(0.060)
Age 7–12 gross enrollment	-0.004	0.019	-0.011	0.002	0.010	-0.009	-0.006	0.010	-0.003
	(0.005)	(0.013)	(0.019)	(0.005)	(0.014)	(0.018)	(0.006)	(0.013)	(0.023)
Age 13–15 gross enrollment	-0.036	-0.030	0.077	-0.018	-0.034	-0.1481**	-0.018	0.004	0.2247***
	(0.026)	(0.047)	(0.049)	(0.030)	(0.046)	(0.059)	(0.031)	(0.046)	(0.063)
Age 7–12 gross attendance	-0.003	0.0243**	-0.024	0.003	0.004	-0.014	-0.006	0.020	-0.010
	(0.006)	(0.012)	(0.021)	(0.006)	(0.013)	(0.015)	(0.006)	(0.013)	(0.023)
Age 13–15 gross attendance	-0.042	-0.030	0.076	-0.028	-0.042	-0.1640***	-0.014	0.012	0.2404***
	(0.027)	(0.047)	(0.051)	(0.030)	(0.047)	(0.063)	(0.033)	(0.048)	(0.066)
Average standardized effect	-0.007	-0.001	0.1434**	0.014	-0.0934**	-0.086	-0.020	0.0924*	0.2296***
	(0.026)	(0.053)	(0.066)	(0.027)	(0.046)	(0.063)	(0.029)	(0.049)	(0.075)
Average standardized effect health	0.029	-0.011	0.1778**	0.036	-0.1194**	0.022	-0.007	0.1082**	0.1561*
	(0.027)	(0.053)	(0.071)	(0.029)	(0.053)	(0.062)	(0.028)	(0.049)	(0.081)
Average standardized effect educ.	-0.078	0.019	0.075	-0.031	-0.042	-0.3017**	-0.047	0.061	0.3764***
	(0.049)	(0.094)	(0.094)	(0.055)	(0.088)	(0.129)	(0.059)	(0.090)	(0.129)

Notes: See Notes to Table 3. Each row reports a single regression with both treatment dummies interacted with NTT and Sulawesi dummies.

Indicator	Java Incentive Treatment Effect	Additional NTT Incentive Treatment Effect	Additional Sulawesi Incentive Treatment Effect	Java Non-Incentive Treatment Effect	Additional NTT Non-Incentive Treatment Effect	Additional Sulawesi Non-Incentive Treatment Effect	Java Incentive Additional Effect	Additional NTT Incentive Additional Effect	Additional Sulawesi Incentive Additional Effect
Main 12 indicators									
Number prenatal visits	0.130	0.136	-0.041	-0.012	-0.055	0.019	0.142	0.192	-0.060
	(0.225)	(0.528)	(0.542)	(0.216)	(0.536)	(0.538)	(0.210)	(0.409)	(0.612)
Delivery by trained midwife	0.019	-0.034	0.001	0.024	-0.107	-0.053	-0.005	0.073	0.054
	(0.024)	(0.062)	(0.051)	(0.024)	(0.071)	(0.058)	(0.023)	(0.057)	(0.071)
Number of postnatal visits	-0.190	0.4893*	0.312	-0.085	0.094	0.223	-0.105	0.395	0.089
	(0.173)	(0.291)	(0.316)	(0.169)	(0.287)	(0.306)	(0.170)	(0.275)	(0.371)
Iron tablet sachets	0.079	-0.035	0.069	0.092	-0.094	-0.189	-0.014	0.059	0.2572*
	(0.072)	(0.149)	(0.147)	(0.086)	(0.164)	(0.162)	(0.085)	(0.142)	(0.153)
Percent of immunization	-0.011	0.076	0.047	-0.008	0.002	0.014	-0.003	0.0741**	0.033
	(0.017)	(0.046)	(0.043)	(0.015)	(0.045)	(0.049)	(0.015)	(0.036)	(0.049)
Number of weight checks	0.1124*	0.143	0.256	0.1831***	0.064	-0.017	-0.071	0.080	0.273
	(0.067)	(0.138)	(0.156)	(0.063)	(0.134)	(0.166)	(0.062)	(0.112)	(0.189)
Number Vitamin A supplements	0.063	0.030	0.111	0.048	-0.176	-0.039	0.015	0.2061*	0.150
	(0.060)	(0.124)	(0.128)	(0.071)	(0.131)	(0.137)	(0.068)	(0.115)	(0.148)
Percent malnourished	0.004	-0.0820**	-0.036	-0.010	-0.0859**	0.025	0.014	0.004	-0.061
	(0.017)	(0.038)	(0.040)	(0.018)	(0.036)	(0.050)	(0.019)	(0.045)	(0.048)
Age 7–12 gross enrollment	-0.005	0.0362***	0.008	-0.003	0.0454***	0.010	-0.002	-0.009	-0.003
	(0.004)	(0.011)	(0.016)	(0.005)	(0.009)	(0.014)	(0.005)	(0.012)	(0.017)
Age 13–15 gross enrollment	0.020	0.009	-0.008	0.025	-0.013	-0.065	-0.005	0.023	0.057
	(0.021)	(0.041)	(0.054)	(0.020)	(0.043)	(0.049)	(0.018)	(0.036)	(0.043)
Age 7–12 gross attendance	-0.007	0.0409**	-0.009	-0.0130**	0.0524***	0.024	0.006	-0.012	-0.033
	(0.007)	(0.016)	(0.024)	(0.006)	(0.014)	(0.017)	(0.007)	(0.016)	(0.025)
Age 13–15 gross attendance	0.027	0.014	-0.022	0.033	-0.029	-0.073	-0.006	0.044	0.051
	(0.022)	(0.044)	(0.055)	(0.021)	(0.045)	(0.047)	(0.020)	(0.037)	(0.043)
Average standardized effect	0.020	0.1060**	0.055	0.0309*	0.022	-0.038	-0.011	0.0845*	0.092
	(0.022)	(0.053)	(0.062)	(0.019)	(0.047)	(0.063)	(0.021)	(0.044)	(0.080)
Average standardized effect health	0.021	0.091	0.093	0.036	-0.027	-0.030	-0.015	0.1173**	0.123
	(0.026)	(0.062)	(0.064)	(0.025)	(0.060)	(0.073)	(0.025)	(0.048)	(0.090)
Average standardized effect educ.	0.018	0.1370*	-0.022	0.021	0.1181*	-0.054	-0.003	0.019	0.032
	(0.035)	(0.073)	(0.086)	(0.033)	(0.067)	(0.078)	(0.033)	(0.067)	(0.083)

Pooled

Indicator	AVERAGE								
	Java Incentive Treatment Effect	Additional NTT Incentive Treatment Effect	Additional Sulawesi Incentive Treatment Effect	Java Non-Incentive Treatment Effect	Additional NTT Non-Incentive Treatment Effect	Additional Sulawesi Non-Incentive Treatment Effect	Java Incentive Additional Effect	Additional NTT Incentive Additional Effect	Additional Sulawesi Incentive Additional Effect
Main 12 indicators									
Number prenatal visits	0.296	-0.423	0.234	0.034	-0.6673*	-0.146	0.262	0.245	0.380
	(0.179)	(0.360)	(0.537)	(0.162)	(0.362)	(0.435)	(0.167)	(0.321)	(0.615)
Delivery by trained midwife	0.021	-0.033	0.059	0.0472**	-0.1359**	-0.016	-0.026	0.1026**	0.075
	(0.020)	(0.055)	(0.044)	(0.019)	(0.057)	(0.048)	(0.018)	(0.049)	(0.053)
Number of postnatal visits	-0.2928**	0.4672**	0.5560**	-0.055	-0.149	0.260	-0.2380*	0.6164***	0.296
	(0.128)	(0.213)	(0.267)	(0.128)	(0.196)	(0.216)	(0.132)	(0.207)	(0.290)
Iron tablet sachets	0.095	0.013	0.050	0.1240*	-0.156	-0.2756**	-0.029	0.1681*	0.3259**
	(0.069)	(0.113)	(0.135)	(0.070)	(0.116)	(0.123)	(0.069)	(0.101)	(0.135)
Percent of immunization	-0.006	0.0598**	0.0826*	-0.010	0.031	0.031	0.004	0.028	0.052
	(0.013)	(0.029)	(0.048)	(0.013)	(0.028)	(0.041)	(0.013)	(0.026)	(0.043)
Number of weight checks	0.1121**	0.087	0.2648*	0.1168**	0.049	0.056	-0.005	0.038	0.209
	(0.048)	(0.089)	(0.152)	(0.049)	(0.093)	(0.117)	(0.047)	(0.091)	(0.163)
Number Vitamin A supplements	0.067	-0.1574*	0.034	0.033	-0.1639*	0.020	0.033	0.007	0.014
	(0.042)	(0.092)	(0.100)	(0.053)	(0.099)	(0.100)	(0.051)	(0.079)	(0.124)
Percent malnourished	0.006	-0.0723**	-0.037	-0.002	-0.042	0.020	0.008	-0.030	-0.057
	(0.012)	(0.029)	(0.036)	(0.013)	(0.027)	(0.034)	(0.015)	(0.031)	(0.040)
Age 7–12 gross enrollment	-0.005	0.0275***	-0.001	-0.001	0.0287***	0.002	-0.004	-0.001	-0.003
	(0.004)	(0.008)	(0.015)	(0.004)	(0.009)	(0.013)	(0.004)	(0.009)	(0.017)
Age 13–15 gross enrollment	-0.004	-0.009	0.026	0.005	-0.022	-0.1014***	-0.009	0.013	0.1273***
	(0.017)	(0.037)	(0.040)	(0.020)	(0.036)	(0.037)	(0.018)	(0.032)	(0.035)
Age 7–12 gross attendance	-0.005	0.0322***	-0.016	-0.006	0.0305***	0.008	0.002	0.002	-0.024
	(0.005)	(0.010)	(0.018)	(0.005)	(0.010)	(0.014)	(0.005)	(0.011)	(0.020)
Age 13–15 gross attendance	-0.004	-0.007	0.018	0.006	-0.035	-0.1140***	-0.009	0.029	0.1316***
	(0.018)	(0.038)	(0.042)	(0.021)	(0.038)	(0.038)	(0.020)	(0.033)	(0.037)
Average standardized effect	0.010	0.052	0.0907*	0.024	-0.032	-0.057	-0.014	0.0831**	0.1478**
	(0.018)	(0.041)	(0.050)	(0.018)	(0.038)	(0.047)	(0.019)	(0.035)	(0.060)
Average standardized effect health	0.025	0.037	0.1316**	0.0365*	-0.071	-0.006	-0.012	0.1079***	0.1380**
	(0.020)	(0.044)	(0.053)	(0.021)	(0.046)	(0.054)	(0.020)	(0.038)	(0.070)
Average standardized effect educ.	-0.021	0.081	0.009	-0.002	0.048	-0.1584*	-0.019	0.034	0.1673**
	(0.031)	(0.066)	(0.074)	(0.036)	(0.064)	(0.081)	(0.034)	(0.057)	(0.076)

Appendix Table 4: Detail on spillovers to non-targeted indicators.

		Wave II			Wave III			AVERAGE		
Indicator		Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Average Treatment Effect	Non-Incentive Average Treatment Effect	Incentive Average Additional Effect
Health utilization										
Facility-based vs home Deliveries	0.397 [0.490]	0.041 (0.025)	0.018 (0.023)	0.023 (0.026)	0.030 (0.025)	0.0431* (0.024)	-0.013 (0.026)	0.0347* (0.020)	0.0326* (0.020)	0.002 (0.022)
Use of family planning	0.528 [0.499]	0.008 (0.016)	-0.007 (0.015)	0.016 (0.014)	-0.022 (0.014)	-0.0246* (0.013)	0.003 (0.013)	-0.008 (0.012)	-0.017 (0.010)	0.008 (0.010)
Use of health services curative care	. [.]	-0.009 (0.018)	-0.001 (0.019)	-0.008 (0.018)	-0.007 (0.021)	-0.005 (0.020)	-0.002 (0.020)	-0.008 (0.014)	-0.003 (0.014)	-0.004 (0.014)
Any prenatal visits beyond 4	0.737 [0.440]	-0.008 (0.011)	0.002 (0.011)	-0.010 (0.011)	0.0340* (0.019)	0.015 (0.020)	0.019 (0.018)	0.0272* (0.015)	-0.008 (0.015)	0.0351** (0.015)
Any vitamin A beyond 2	0.043 [0.204]	-0.102 (0.214)	0.016 (0.243)	-0.118 (0.226)	0.016 (0.011)	-0.001 (0.010)	0.017 (0.010)	0.004 (0.008)	0.000 (0.007)	0.004 (0.008)
Average standardized effect		0.019 (0.020)	-0.010 (0.021)	0.029 (0.022)	0.029 (0.021)	0.011 (0.020)	0.018 (0.019)	0.023 (0.016)	0.001 (0.015)	0.022 (0.016)
Health quality										
Quality of prenatal care services	0.546 [0.244]	0.019 (0.012)	0.002 (0.013)	0.017 (0.013)	0.016 (0.013)	0.008 (0.012)	0.007 (0.012)	0.0171* (0.010)	0.006 (0.010)	0.012 (0.009)
Quality of posyandu	. [.]	0.0489* (0.026)	0.0669*** (0.025)	-0.018 (0.027)	0.009 (0.022)	0.022 (0.024)	-0.013 (0.025)	0.0287* (0.017)	0.0434** (0.018)	-0.015 (0.019)
Average standardized effect		0.0901** (0.039)	0.0752* (0.039)	0.015 (0.040)	0.041 (0.036)	0.040 (0.038)	0.001 (0.036)	0.0646** (0.029)	0.0567** (0.029)	0.008 (0.028)
Maternal knowledge and practices										
Initiation of breastfeeding	0.575 [0.494]	0.023 (0.023)	0.008 (0.022)	0.015 (0.023)	0.031 (0.022)	0.022 (0.020)	0.009 (0.020)	0.027 (0.017)	0.016 (0.016)	0.012 (0.017)
Exclusive breastfeeding	0.472 [0.499]	0.014 (0.024)	0.023 (0.026)	-0.008 (0.026)	-0.009 (0.022)	0.008 (0.023)	-0.017 (0.022)	0.002 (0.017)	0.015 (0.018)	-0.013 (0.018)
Mother's knowledge	. [.]	0.004 (0.009)	0.009 (0.009)	-0.005 (0.010)	0.013 (0.008)	0.0206*** (0.007)	-0.008 (0.008)	0.008 (0.006)	0.0151** (0.006)	-0.007 (0.006)
Woman role in child decisions dummy	0.773 [0.419]	-0.016 (0.019)	0.010 (0.021)	-0.026 (0.018)	0.006 (0.017)	-0.002 (0.017)	0.008 (0.016)	0.004 (0.013)	-0.003 (0.013)	0.008 (0.013)
Average standardized effect		0.026 (0.029)	0.024 (0.028)	0.002 (0.030)	0.033 (0.029)	0.043 (0.027)	-0.011 (0.026)	0.029 (0.022)	0.034 (0.022)	-0.005 (0.021)
Family composition decisions										
Fertility rate	0.344 [0.475]	-0.001 (0.012)	-0.018 (0.012)	0.016 (0.012)	0.011 (0.010)	0.002 (0.010)	0.009 (0.009)	0.005 (0.008)	-0.006 (0.008)	0.012 (0.007)
Number migrate out village 12 mons	. [.]	-0.014 (0.011)	-0.008 (0.013)	-0.006 (0.013)	-1.642 (1.509)	1.261 (1.812)	-2.9026* (1.637)	-1.642 (1.509)	1.261 (1.812)	-2.9026* (1.637)
Number HH indivs. Migrate out	0.069	0.022	-0.0342*	0.0558**	0.008	-0.009	0.017	-0.001	-0.009	0.008

Indicator		Wave II			Wave III			AVERAGE		
		Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Average Treatment Effect	Non-Incentive Average Treatment Effect	Incentive Average Additional Effect
kec 12 mons	[0.314]	(0.022)	(0.021)	(0.022)	(0.013)	(0.013)	(0.011)	(0.009)	(0.010)	(0.009)
Average standardized effect		0.014	-0.012	0.026	0.023	-0.007	0.029	0.025	-0.014	0.0381*
		(0.019)	(0.021)	(0.022)	(0.022)	(0.026)	(0.023)	(0.020)	(0.024)	(0.022)
Other education metrics										
Gross high school enrollment	.	-0.032	-0.022	-0.011	-0.0669**	-0.010	-0.0572*	-0.052	-0.014	-0.038
	[.]	(0.044)	(0.043)	(0.045)	(0.034)	(0.033)	(0.034)	(0.032)	(0.031)	(0.034)
Dropout rates	0.026	0.007	0.007	-0.001	0.000	-0.002	0.002	0.003	0.002	0.001
	[0.158]	(0.004)	(0.005)	(0.005)	(0.003)	(0.003)	(0.003)	(0.003)	(0.003)	(0.003)
SD to SMP transition	0.885	-0.009	0.000	-0.008	0.010	0.016	-0.006	0.001	0.009	-0.007
	[0.319]	(0.014)	(0.010)	(0.013)	(0.020)	(0.018)	(0.015)	(0.012)	(0.011)	(0.011)
Number of hours attended school	17.112	-0.6103*	-0.8002*	0.190	-0.147	0.123	-0.270	-0.369	-0.279	-0.090
	[13.674]	(0.343)	(0.415)	(0.441)	(0.475)	(0.432)	(0.434)	(0.329)	(0.330)	(0.345)
Numbers attend Paket A					0.000	-0.0008*	0.001	0.000	-0.0008*	0.001
					(0.001)	(0.000)	(0.000)	(0.001)	(0.000)	(0.000)
Numbers attend Paket B					0.000	0.000	0.000	0.000	0.000	0.000
					(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Numbers attend Paket C					0.001	-0.0009*	0.0014**	0.001	-0.0009*	0.0014**
					(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Average standardized effect		-0.070	-0.051	-0.019	-0.013	0.006	-0.019	-0.022	-0.011	-0.012
		(0.049)	(0.046)	(0.049)	(0.021)	(0.020)	(0.018)	(0.017)	(0.018)	(0.018)
Distance to school										
Distance to SMP (km)	11.439	-0.102	0.016	-0.118	0.076	0.005	0.071	0.001	0.003	-0.003
	[20.544]	(0.214)	(0.243)	(0.226)	(0.203)	(0.198)	(0.196)	(0.165)	(0.169)	(0.166)
Time spent oneway to SMP (hr)	0.397	0.0501**	0.024	0.026	-0.008	-0.001	-0.007	0.017	0.011	0.006
	[0.350]	(0.024)	(0.022)	(0.031)	(0.020)	(0.020)	(0.021)	(0.018)	(0.016)	(0.020)
Transportation cost oneway to SMP	777.527	144.559	25.835	118.724	-35.299	-180.402	145.103	45.869	-92.027	137.897
	[1421.307]	(140.376)	(116.831)	(139.557)	(153.749)	(150.412)	(122.304)	(107.377)	(104.765)	(101.851)
Average standardized effect		-0.077	-0.034	-0.043	0.004	0.022	-0.018	-0.025	0.002	-0.027
		(0.058)	(0.050)	(0.060)	(0.042)	(0.041)	(0.042)	(0.036)	(0.035)	(0.039)
Child labor (note these are bad so avg std effect * -1)										
Age 7-15 hours wage Work	0.431	-0.003	0.3647**	-0.3672***	0.023	-0.012	0.035	0.018	0.1459**	-0.1275**
	[3.869]	(0.078)	(0.143)	(0.125)	(0.076)	(0.072)	(0.066)	(0.055)	(0.073)	(0.064)
Age 7-15 hours household work	3.915	0.4178*	0.9241***	-0.5063*	-0.161	-0.150	-0.012	0.114	0.3196*	-0.206
	[6.761]	(0.227)	(0.291)	(0.288)	(0.212)	(0.189)	(0.196)	(0.155)	(0.173)	(0.173)
Age 7-15 wage work dummy	0.031	-0.001	0.0126*	-0.0132**	0.003	-0.002	0.005	0.001	0.004	-0.003
	[0.174]	(0.005)	(0.007)	(0.006)	(0.006)	(0.005)	(0.005)	(0.005)	(0.004)	(0.004)
Age 7-15 household work	0.728	0.013	0.002	0.011	-0.022	0.006	-0.029	-0.007	0.006	-0.012

Indicator		Wave II			Wave III			AVERAGE		
		Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Average Treatment Effect	Non-Incentive Average Treatment Effect	Incentive Average Additional Effect
Dummy	[0.445]	(0.016)	(0.017)	(0.018)	(0.020)	(0.019)	(0.022)	(0.014)	(0.014)	(0.016)
Average standardized effect		-0.025	-0.1074***	0.0825**	0.012	0.007	0.005	-0.006	-0.0391*	0.0335*
		(0.022)	(0.038)	(0.034)	(0.025)	(0.020)	(0.022)	(0.018)	(0.021)	(0.020)
Average standardized effect		-0.003	-0.017	0.013	0.012	0.007	0.005	0.013	0.004	0.008
		(0.016)	(0.017)	(0.019)	(0.025)	(0.020)	(0.022)	(0.010)	(0.011)	(0.011)
Average standardized effect health		0.0373**	0.019	0.018	0.012	0.007	0.005	0.0354***	0.020	0.016
		(0.016)	(0.016)	(0.017)	(0.025)	(0.020)	(0.022)	(0.013)	(0.013)	(0.013)
Average standardized effect educ.		-0.0574**	-0.0643**	0.007	0.012	0.007	0.005	-0.018	-0.016	-0.002
		(0.029)	(0.030)	(0.032)	(0.025)	(0.020)	(0.022)	(0.016)	(0.016)	(0.017)

Notes: See Notes to Table 5.

Appendix Table 5: Changes over time

| Indicator | Wave II | | | Wave III | | | Wave III – Wave II | | |
	Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Treatment Effect	Non-Incentive Treatment Effect	Incentive Additional Effect	Incentive Treatment Effect Wave III-Wave II	Non-Incentive Treatment Effect Wave III-Wave II	Incentive Additional Effect Wave III-Wave II
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Main 12 indicators									
Number prenatal visits	0.300	-0.3559*	0.6556***	0.165	-0.115	0.280	-0.135	0.241	-0.376
	(0.239)	(0.212)	(0.217)	(0.209)	(0.215)	(0.211)	(0.268)	(0.265)	(0.267)
Delivery by trained midwife	0.022	0.025	-0.003	0.023	0.001	0.022	0.001	-0.024	0.025
	(0.028)	(0.027)	(0.025)	(0.025)	(0.027)	(0.027)	(0.030)	(0.030)	(0.031)
Number of postnatal visits	-0.133	-0.035	-0.098	0.034	0.006	0.028	0.166	0.041	0.126
	(0.143)	(0.128)	(0.139)	(0.141)	(0.133)	(0.157)	(0.173)	(0.173)	(0.175)
Iron tablet sachets	0.140	0.064	0.076	0.1356**	0.094	0.042	-0.005	0.030	-0.035
	(0.086)	(0.083)	(0.081)	(0.062)	(0.073)	(0.073)	(0.088)	(0.088)	(0.089)
Percent of immunization	0.028	0.012	0.016	0.017	-0.009	0.025	-0.011	-0.021	0.010
	(0.019)	(0.018)	(0.018)	(0.016)	(0.017)	(0.016)	(0.021)	(0.021)	(0.021)
Number of weight checks	0.1533***	0.058	0.0952*	0.1717***	0.2270***	-0.055	0.018	0.1689***	-0.1505**
	(0.053)	(0.050)	(0.054)	(0.060)	(0.060)	(0.056)	(0.064)	(0.063)	(0.063)
Number Vitamin A supplements	-0.026	-0.012	-0.014	0.088	0.028	0.060	0.114	0.040	0.074
	(0.055)	(0.055)	(0.058)	(0.054)	(0.065)	(0.064)	(0.076)	(0.079)	(0.081)
Percent malnourished	-0.010	0.017	-0.0263*	-0.0374**	-0.0358**	-0.002	-0.028	-0.0525**	0.025
	(0.017)	(0.015)	(0.016)	(0.016)	(0.017)	(0.019)	(0.024)	(0.024)	(0.025)
Age 7–12 participation rate	-0.001	0.003	-0.004	0.0088*	0.0192***	-0.0104**	0.010	0.0162**	-0.006
	(0.005)	(0.006)	(0.006)	(0.005)	(0.004)	(0.005)	(0.008)	(0.008)	(0.007)
Age 13–15 participation rate	-0.0376*	-0.0535**	0.016	0.024	0.017	0.007	0.0616**	0.0707**	-0.009
	(0.019)	(0.022)	(0.024)	(0.018)	(0.019)	(0.016)	(0.026)	(0.028)	(0.028)
Age 7–12 gross attendance	-0.001	0.000	-0.001	0.005	0.008	-0.003	0.006	0.008	-0.002
	(0.006)	(0.006)	(0.006)	(0.008)	(0.007)	(0.008)	(0.009)	(0.010)	(0.009)
Age 13–15 gross attendance	-0.0443**	-0.0680***	0.024	0.0359*	0.022	0.014	0.0803***	0.0902***	-0.010
	(0.020)	(0.023)	(0.024)	(0.019)	(0.020)	(0.017)	(0.027)	(0.029)	(0.029)
Average standardized effect	0.007	-0.030	0.036	0.0716***	0.0515**	0.020	0.0647**	0.0809***	-0.016
	(0.023)	(0.021)	(0.023)	(0.021)	(0.021)	(0.021)	(0.027)	(0.023)	(0.027)
Average standardized effect health	0.0468*	0.004	0.0426*	0.0734***	0.040	0.033	0.029	0.038	-0.009
	(0.025)	(0.024)	(0.024)	(0.024)	(0.025)	(0.025)	(0.030)	(0.028)	(0.029)
Average standardized effect educ.	-0.0736**	-0.0976**	0.024	0.0679**	0.0737**	-0.006	0.1385*	0.1678***	-0.031
	(0.037)	(0.043)	(0.044)	(0.031)	(0.034)	(0.030)	(0.075)	(0.035)	(0.045)

Notes: See Notes to Table 3. This table restricts analysis to those kecamatans that, according to the randomization, had the same status in both year 1 and year 2. Columns (8) – (10) report the difference between impacts in Wave III and Wave II.

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Appendix Table 6: Interactions with Village Size

Indicator	Baseline Mean	Wave II			Wave III			AVERAGE		
		Generasi Incentive * Village Population	Generasi Non-Incentive * Village Population	Generasi Incentive Additional Effect * Village Population	Generasi Incentive * Village Population	Generasi Non-Incentive * Village Population	Generasi Incentive Additional Effect * Village Population	Generasi Incentive * Village Population	Generasi Non-Incentive * Village Population	Generasi Incentive Additional Effect * Village Population
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Number prenatal visits	7.444	0.186	0.202	-0.016	-0.067	0.137	-0.204	0.083	0.1920**	-0.109
	[4.3634]	(0.134)	(0.128)	(0.140)	(0.143)	(0.147)	(0.155)	(0.098)	(0.096)	(0.103)
Delivery by trained midwife	0.666	0.0255*	0.010	0.015	-0.015	-0.002	-0.014	0.005	0.006	-0.001
	[0.4716]	(0.015)	(0.014)	(0.015)	(0.017)	(0.017)	(0.018)	(0.011)	(0.011)	(0.012)
Number of postnatal visits	1.731	0.036	0.024	0.011	-0.033	0.2288**	-0.2620**	-0.009	0.101	-0.109
	[2.4677]	(0.088)	(0.084)	(0.092)	(0.098)	(0.098)	(0.105)	(0.065)	(0.063)	(0.068)
Iron tablet sachets	1.589	-0.035	-0.031	-0.005	0.033	0.073	-0.040	-0.004	0.010	-0.014
	[1.2581]	(0.046)	(0.044)	(0.048)	(0.046)	(0.049)	(0.052)	(0.033)	(0.033)	(0.035)
Percent of immunization	0.655	-0.003	0.006	-0.009	0.016	0.0216**	-0.005	0.004	0.0133*	-0.009
	[0.3653]	(0.011)	(0.010)	(0.011)	(0.010)	(0.011)	(0.011)	(0.008)	(0.008)	(0.008)
Number of weight checks	2.145	0.029	0.037	-0.007	0.030	0.0701**	-0.041	0.024	0.0479**	-0.024
	[1.1772]	(0.031)	(0.029)	(0.032)	(0.033)	(0.031)	(0.034)	(0.023)	(0.021)	(0.023)
Number Vitamin A supplements	1.522	0.004	-0.001	0.005	0.021	-0.047	0.067	0.022	-0.021	0.043
	[1.1460]	(0.037)	(0.034)	(0.037)	(0.044)	(0.044)	(0.048)	(0.028)	(0.027)	(0.029)
Percent malnourished	0.177	-0.0229*	-0.012	-0.011	-0.019	0.013	-0.0311**	-0.0212**	-0.001	-0.0202**
	[0.3813]	(0.012)	(0.011)	(0.012)	(0.013)	(0.012)	(0.013)	(0.009)	(0.008)	(0.009)
Age 7–12 participation rate	0.949	0.003	0.001	0.003	0.0068*	0.005	0.002	0.0052*	0.003	0.002
	[0.2211]	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)	(0.003)	(0.003)	(0.003)
Age 13–15 participation rate	0.817	-0.010	-0.006	-0.004	-0.006	-0.018	0.012	-0.005	-0.010	0.006
	[0.3865]	(0.016)	(0.015)	(0.016)	(0.014)	(0.012)	(0.013)	(0.010)	(0.009)	(0.010)
Age 7–12 gross attendance	0.906	0.001	0.000	0.002	-0.002	0.003	-0.005	0.000	0.001	-0.001
	[0.2758]	(0.005)	(0.005)	(0.005)	(0.005)	(0.004)	(0.005)	(0.004)	(0.003)	(0.003)
Age 13–15 gross attendance	0.759	-0.003	0.000	-0.003	-0.006	-0.014	0.008	-0.002	-0.006	0.004
	[0.4184]	(0.017)	(0.015)	(0.016)	(0.014)	(0.012)	(0.014)	(0.011)	(0.009)	(0.010)
Average standardized effect		0.013	0.010	0.003	0.009	0.016	-0.007	0.012	0.012	0.000
		(0.014)	(0.013)	(0.016)	(0.014)	(0.013)	(0.016)	(0.010)	(0.011)	(0.012)
Average standardized effect health		0.021	0.017	0.004	0.013	0.0297*	-0.016	0.016	0.021	-0.005
		(0.015)	(0.015)	(0.017)	(0.015)	(0.018)	(0.018)	(0.012)	(0.014)	(0.014)
Average standardized effect educ.		-0.003	-0.004	0.001	0.000	-0.012	0.012	0.004	-0.006	0.010
		(0.031)	(0.023)	(0.031)	(0.025)	(0.017)	(0.022)	(0.018)	(0.015)	(0.018)

Notes: This table shows the interaction of the Generasi variables with village population, as measured at baseline.

Appendix Table 7: Midwife Behavior Heterogeneity by Civil Servant Status

Indicator	Wave II			Wave III			AVERAGE		
	Incentive Treatment Effect * PNS	Non-Incentive Treatment Effect * PNS	Incentive Additional Effect * PNS	Incentive Treatment Effect * PNS	Non-Incentive Treatment Effect * PNS	Incentive Additional Effect * PNS	Incentive Average Treatment Effect * PNS	Non-Incentive Average Treatment Effect * PNS	Incentive Average Additional Effect * PNS
Midwives:									
Hours spent in outreach over past 3 Days	-0.722 (0.876)	-0.359 (0.906)	-0.363 (1.038)	-1.000 (1.056)	0.458 (1.001)	-1.457 (0.920)	-0.798 (0.717)	0.228 (0.618)	-1.026 (0.667)
Hours spent providing public services over past 3 days	2.216 (1.727)	0.535 (1.872)	1.680 (1.964)	2.309 (1.796)	-0.195 (1.896)	2.504 (1.932)	2.3145* (1.298)	0.135 (1.481)	2.179 (1.511)
Hours spent providing private services over past 3 days	0.480 (2.508)	0.589 (3.244)	-0.109 (3.475)	2.911 (1.986)	-2.275 (2.461)	5.1860** (2.184)	2.018 (1.599)	-0.920 (2.147)	2.937 (2.105)
Total hours spent working over past 3 Days	2.165 (3.066)	1.059 (3.812)	1.106 (4.144)	4.248 (2.984)	-1.895 (3.316)	6.1424* (3.268)	3.6568* (2.037)	-0.342 (2.731)	3.999 (2.870)
Number of posyandus attended in past Month	0.135 (0.685)	-0.438 (0.762)	0.573 (0.828)	-0.088 (0.713)	-0.370 (0.687)	0.283 (0.838)	-0.018 (0.551)	-0.435 (0.642)	0.417 (0.713)
Number of hours midwife per posyandu	-0.036 (0.282)	0.354 (0.307)	-0.390 (0.340)	-0.057 (0.445)	-0.440 (0.416)	0.383 (0.395)	0.053 (0.265)	0.003 (0.268)	0.050 (0.289)
Average standardized effect health	0.059 (0.114)	0.032 (0.138)	0.027 (0.147)	0.132 (0.137)	-0.114 (0.138)	0.2453* (0.139)	0.112 (0.084)	-0.032 (0.106)	0.144 (0.111)

Notes: See Notes to Table 10. This table interacts the midwife effort variables in Table 10 with a dummy variable, PNS, that captures whether the midwife is a regular (effectively tenured) civil servant (*Pegawai Negri Sipil*), or PNS.

Appendix Table 8: Comparing Administrative to Household Survey Data, Indicator by indicator

Indicator	Wave II Incentive Additional Effect – difference	Wave III Incentive Additional Effect – difference	Pooled Incentive Additional Effect – difference
	(1)	(2)	(3)
Number prenatal visits	-0.8528**	-0.282	-0.5709**
	(0.362)	(0.399)	(0.286)
Delivery by trained midwife	-0.037	-0.076	-0.057
	(0.084)	(0.060)	(0.050)
Number of postnatal visits	0.010	-0.147	-0.069
	(0.179)	(0.205)	(0.142)
Iron tablet sachets	-0.120	-0.300	-0.209
	(0.233)	(0.416)	(0.254)
Percent of immunization	-0.4820*	-0.058	-0.268
	(0.262)	(0.261)	(0.178)
Number of weight checks	-0.117	-0.172	-0.144
	(0.277)	(0.126)	(0.150)
Number Vitamin A Supplements	-0.663	-0.204	-0.432
	(0.538)	(0.525)	(0.380)
Age 7–12 participation rate	-1.504	-0.018	-0.728
	(1.004)	(0.100)	(0.484)
Age 13–15 participation rate	-1.706	-0.1626**	-0.842
	(1.169)	(0.078)	(0.516)
Age 7–12 gross attendance	-1.164	-0.011	-0.564
	(0.722)	(0.617)	(0.462)
Age 13–15 gross attendance	-1.3562**	-1.706	-1.5518**
	(0.618)	(1.073)	(0.654)

Notes: This table reports the difference between MIS data and corresponding household indicators. These are the individual indicators corresponding to Panel C of Table 6. Robust standard errors in parentheses, adjusted for clustering at the subdistrict level.

Appendix Table 9: Within-subdistrict targeting of direct benefits, detailed results by indicator

Indicator	Baseline Mean	Wave II			Wave III			AVERAGE		
		Generasi Incentive Top 3 Quintiles Additional Effect	Generasi Non-Incentive Top 3 Quintiles Additional Effect	Generasi Incentive Additional effect Top 3 Quintiles Additional Effect	Generasi Incentive Top 3 Quintiles Additional Effect	Generasi Non-Incentive Top 3 Quintiles Additional Effect	Generasi Incentive Additional effect Top 3 Quintiles Additional Effect	Generasi Incentive Top 3 Quintiles Additional Effect	Generasi Non-Incentive Top 3 Quintiles Additional Effect	Generasi Incentive Additional effect Top 3 Quintiles Additional Effect
Received scholarship	0.025	-0.018	0.015	-0.0322**	-0.019	-0.011	-0.007	-0.018	-0.002	-0.017
	[0.0048]	(0.014)	(0.014)	(0.016)	(0.018)	(0.018)	(0.018)	(0.011)	(0.011)	(0.012)
Received uniform	0.013	-0.020	-0.007	-0.013	-0.026	-0.017	-0.010	-0.021	-0.010	-0.011
	[0.0036]	(0.017)	(0.017)	(0.020)	(0.020)	(0.020)	(0.019)	(0.013)	(0.013)	(0.014)
Received other school Supplies	0.008	0.007	-0.0292*	0.0365**	-0.0420**	-0.003	-0.0393**	-0.019	-0.010	-0.009
	[0.0027]	(0.016)	(0.016)	(0.018)	(0.018)	(0.018)	(0.017)	(0.012)	(0.012)	(0.013)
Received transport Subsidy	0.000	0.006	0.002	0.003	0.003	-0.002	0.005	0.004	0.000	0.004
	[0.0000]	(0.005)	(0.006)	(0.006)	(0.005)	(0.005)	(0.005)	(0.004)	(0.004)	(0.004)
Received other school Support	0.000	0.000	0.000	0.000	-0.011	-0.011	0.000	-0.005	-0.005	0.000
	[0.0000]	0.000	0.000	0.000	(0.008)	(0.008)	(0.008)	(0.004)	(0.004)	(0.004)
Received supp. feeding at School	0.000	0.000	0.0083**	-0.0084*	-0.0130**	-0.007	-0.006	-0.0069**	0.000	-0.0065*
	[0.0000]	(0.004)	(0.004)	(0.005)	(0.006)	(0.006)	(0.006)	(0.004)	(0.004)	(0.004)
Received supp. feeding at posyandu	0.469	-0.0949**	-0.001	-0.0939*	-0.040	-0.049	0.009	-0.0585*	-0.029	-0.030
	[0.0171]	(0.047)	(0.048)	(0.056)	(0.045)	(0.044)	(0.044)	(0.032)	(0.031)	(0.035)
Received intensive supp. feeding at school	0.027	0.010	0.003	0.007	-0.0518**	-0.0450*	-0.007	-0.022	-0.022	-0.001
	[0.0055]	(0.024)	(0.024)	(0.028)	(0.024)	(0.024)	(0.024)	(0.017)	(0.016)	(0.018)
Received health subsidy for pre/postnatal care	0.005	0.010	-0.025	0.036	0.027	-0.032	0.0585*	0.010	-0.0370**	0.0472**
	[0.0023]	(0.020)	(0.021)	(0.024)	(0.036)	(0.035)	(0.035)	(0.018)	(0.018)	(0.020)
Received health subsidy for childbirth	0.039	-0.049	0.095	-0.1437*	0.001	0.075	-0.075	-0.028	0.0847*	-0.1130**
	[0.0078]	(0.063)	(0.063)	(0.074)	(0.090)	(0.084)	(0.084)	(0.051)	(0.049)	(0.055)

Notes: See Notes to Table 12.

Appendix Table 10: Within-subdistrict targeting of impacts on main indicators, detailed results by indicator

		Wave II			Wave III			AVERAGE		
Indicator	Baseline Mean	Generasi Incentive Top 3 Quintiles Additional Effect	Generasi Non-Incentive Top 3 Quintiles Additional Effect	Generasi Incentive Additional effect Top 3 Quintiles Additional Effect	Generasi Incentive Top 3 Quintiles Additional Effect	Generasi Non-Incentive Top 3 Quintiles Additional Effect	Generasi Incentive Additional effect Top 3 Quintiles Additional Effect	Generasi Incentive Top 3 Quintiles Additional Effect	Generasi Non-Incentive Top 3 Quintiles Additional Effect	Generasi Incentive Additional effect Top 3 Quintiles Additional Effect
Main 12 indicators										
Number prenatal visits	7.447	-1.7556**	-0.704	-1.052	1.9985**	1.024	0.975	-0.321	-0.247	-0.074
	[4.2935]	(0.811)	(0.802)	(0.939)	(0.996)	(0.949)	(0.938)	(0.619)	(0.598)	(0.665)
Delivery by trained midwife	0.670	-0.021	0.082	-0.104	0.172	-0.045	0.2161*	0.055	0.012	0.044
	[0.4705]	(0.093)	(0.093)	(0.109)	(0.137)	(0.130)	(0.126)	(0.076)	(0.073)	(0.082)
Number of postnatal visits	1.720	0.353	0.108	0.245	1.5457**	0.588	0.958	0.8002*	0.258	0.542
	[2.4477]	(0.529)	(0.531)	(0.621)	(0.690)	(0.659)	(0.637)	(0.412)	(0.400)	(0.447)
Iron tablet sachets	1.588	-0.047	-0.045	-0.002	0.171	0.004	0.167	0.046	-0.035	0.081
	[1.2554]	(0.279)	(0.278)	(0.325)	(0.308)	(0.298)	(0.294)	(0.204)	(0.199)	(0.221)
Percent of immunization	0.653	0.004	0.065	-0.061	-0.016	-0.034	0.018	-0.001	0.029	-0.030
	[0.3664]	(0.053)	(0.055)	(0.063)	(0.079)	(0.077)	(0.075)	(0.044)	(0.044)	(0.049)
Number of weight checks	2.126	-0.169	-0.110	-0.058	-0.2847*	-0.125	-0.160	-0.2069**	-0.094	-0.113
	[1.1895]	(0.129)	(0.130)	(0.154)	(0.152)	(0.146)	(0.149)	(0.097)	(0.094)	(0.107)
Number Vitamin A Supplements	1.529	0.143	0.079	0.064	-0.099	0.182	-0.280	0.121	0.171	-0.051
	[1.1370]	(0.162)	(0.172)	(0.194)	(0.314)	(0.309)	(0.297)	(0.143)	(0.147)	(0.162)
Percent malnourished	0.168	0.1139**	-0.1066**	0.2205***	0.056	0.009	0.047	0.0768*	-0.054	0.1309***
	[0.3739]	(0.051)	(0.052)	(0.061)	(0.064)	(0.062)	(0.064)	(0.040)	(0.039)	(0.044)
Age 7–12 gross enrollment	0.948	-0.013	-0.014	0.001	-0.017	-0.010	-0.007	-0.015	-0.011	-0.004
	[0.2221]	(0.016)	(0.016)	(0.018)	(0.016)	(0.015)	(0.015)	(0.011)	(0.011)	(0.012)
Age 13–15 gross enrollment	0.822	-0.024	-0.025	0.001	-0.020	0.0937*	-0.1135**	-0.034	0.036	-0.0696*
	[0.3827]	(0.055)	(0.056)	(0.065)	(0.051)	(0.051)	(0.051)	(0.037)	(0.037)	(0.040)
Age 7–12 gross attendance	0.904	-0.008	-0.015	0.007	-0.020	-0.023	0.002	-0.013	-0.017	0.004
	[0.2773]	(0.018)	(0.019)	(0.022)	(0.019)	(0.018)	(0.018)	(0.013)	(0.013)	(0.014)
Age 13–15 gross attendance	0.768	-0.019	-0.032	0.013	-0.014	0.073	-0.0871*	-0.027	0.021	-0.049
	[0.4125]	(0.056)	(0.057)	(0.066)	(0.053)	(0.053)	(0.052)	(0.038)	(0.038)	(0.041)
Average standardized effect		-0.075	0.007	-0.082	0.062	0.054	0.008	-0.017	0.031	-0.048
		(0.065)	(0.074)	(0.085)	(0.075)	(0.066)	(0.068)	(0.847)	(0.773)	(0.922)
Average standardized effect Health		-0.078	0.057	-0.135	0.133	0.038	0.095	0.020	0.043	-0.024
		(0.078)	(0.080)	(0.092)	(0.097)	(0.087)	(0.091)	(0.731)	(0.632)	(0.752)
Average standardized effect educ.		-0.068	-0.093	0.025	-0.078	0.087	-0.1651*	-0.090	0.006	-0.097
		(0.096)	(0.129)	(0.143)	(0.084)	(0.091)	(0.084)	(1.234)	(1.193)	(1.397)

Notes: See Notes to Table 12.

Appendix Table 11: Cost-effectiveness Calculation Counting All Dollars Spent Equally

	Generasi with Incentives	Generasi without Incentives	Additional effect of incentives	Conditional Cash Transfer (PKH) (no spillover)	Conditional Cash Transfer (PKH) (w. spillover)	Generasi with Incentives	Generasi without Incentives	Additional effect of incentives	Conditional Cash Transfer (PKH) (no spillover)	Conditional Cash Transfer (PKH) (w. spillover)
	Entire program, not including transfers					Entire program, including transfers				
	0.00	0.00	0.00	0.00	0.00	10.46	10.69	-0.23	88.40	88.40
Non-transfers	3.91	3.68	0.23	0.00	0.00	3.91	3.68	0.23	0.00	0.00
Facilitation	2.54	2.54	0.00	18.40	18.40	2.54	2.54	0.00	18.40	18.40
Marginal cost of public			0.00					0.00		
funds	0.00	0.00				0.00	0.00			
Total costs (millions USD)	6.44	6.21	0.23	106.80	106.80	16.90	16.90	0.373	106.80	106.80
Millions of points	1.42	1.04	0.373	2.458	4.466	1.42	1.04	0.00	2.458	4.466
Dollars per point	4.55	5.95	0.62	7.49	4.12	11.93	16.20	0.00	43.45	23.92

Notes: See Notes to Table 13.