

# Did the Health Card Program Ensure Access to Medical Care for the Poor During Indonesia's Economic Crisis?

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## *SUPPLEMENTAL APPENDIX S.1*

### *DETAILED RESULTS PROPENSITY SCORE MATCHING*

For each household in the treatment group we selected a control-household with the nearest value of the propensity score. This way of constructing a control group basically boils down to re-weighting the potential control group. Those households that are not matched receive a weight of zero, those who are matched once receive a weight of one, and those matched more than once receive a weight higher than one. The choice between allowing matching with replacement or without involves the trade-off between increasing precision and reducing the bias. Matching with replacement will give the least biased estimate, but reduces precision of the estimate, as the weights for multiple matched observations increase the variance. The drawback of matching without replacement is that it yields a shortage of possible matches for those households with a high propensity score. We used the rule that when the match obtained without replacement had a propensity score that differed more than 0.001 from the propensity score of the household in the treatment group, we resorted to matching with replacement. If no match was found within a radius of 0.001 we did not match the household to a control.

Table S.1 below shows the distribution of the propensity score for the intervention group, potential controls and households matched more than once. The region of overlapping support ranges from 0.0008 to 0.8473. Households outside this range are not considered in the matching procedure.

Figure S.1 illustrates the quality of the match, showing the distribution of the propensity score for the matched households in a histogram. The number of matched household's decreases as the probability of selection increases.

TABLE S.1 Distribution of propensity score for all households and for the matched pairs

Propensity score	All households		Matched pairs		Nr. of households in control group matched more than once
	No health card	Health card	No health card	Health card	
0.0 – 0.1	128,128	4,658	4,658	4,658	0
0.1 – 0.2	26,544	4,405	4,406	4,405	0
0.2 – 0.3	10,003	3,388	3,386	3,387	3
0.3 – 0.4	4,828	2,605	2,589	2,588	21
0.4 – 0.5	2,318	1,839	1,788	1,794	68
0.5 – 0.6	1,105	1,238	1,208	1,203	161
0.6 – 0.7	378	664	620	620	137
0.7 – 0.8	57	177	72	72	16
0.8 – 0.9	5	19	0	0	0
Total	173,366	18,993	18,727	18,727	406

Note: Range of common support: [0.0008, 0.8473].

Source: Authors' analysis based on data from Indonesia's annual *Susenas* household survey; see description in text.

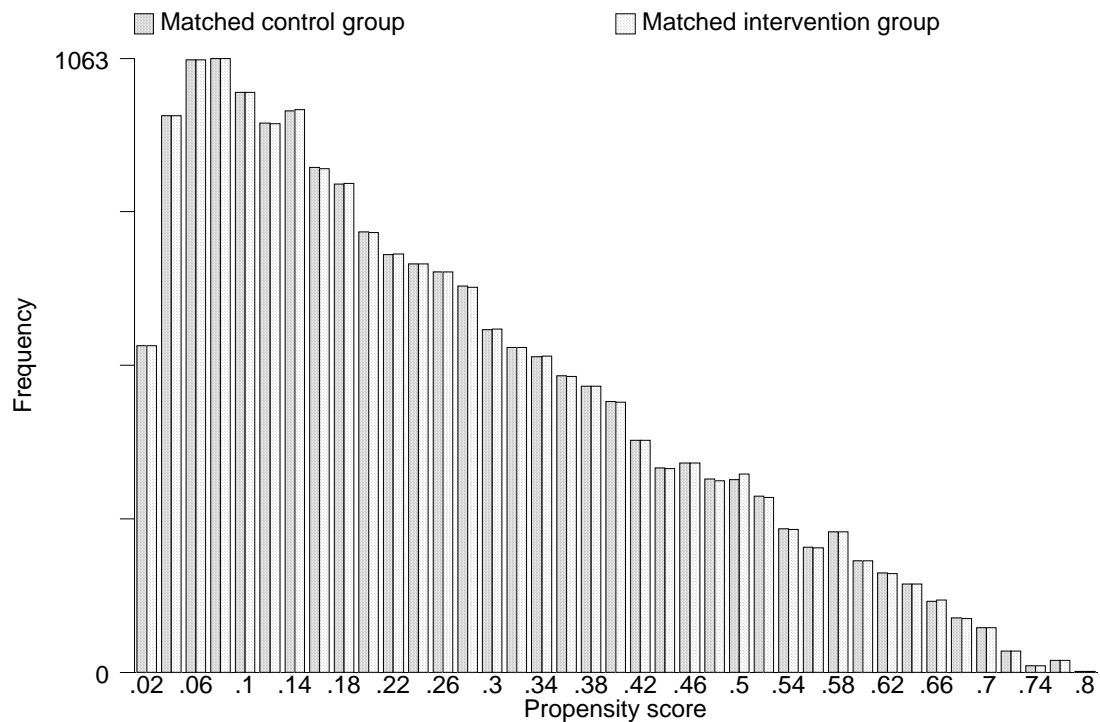


FIGURE S.1 Histogram of the propensity score for matched households (bin size = 0.02)

Source: Authors' analysis based on data from Indonesia's annual *Susenas* household survey; see description in text.

TABLE S.2 Propensity score estimations (logit), by region

	(1) Java / Bali	(2) Sumatra	(3) Sulawesi	(4) Kalimantan	(5) Other islands
Female head of household	0.351** [0.042]	0.351** [0.076]	0.268* [0.116]	0.694** [0.146]	-0.101 [0.112]
Education head of household (ref. : not completed primary school)					
Primary	-0.133** [0.027]	-0.091+ [0.050]	0.008 [0.077]	0.010 [0.091]	0.091 [0.067]
Junior secondary	-0.326** [0.046]	-0.240** [0.069]	-0.179 [0.113]	-0.208 [0.148]	0.026 [0.104]
Senior secondary	-0.706** [0.054]	-0.474** [0.079]	-0.312** [0.120]	-0.110 [0.160]	-0.089 [0.108]
Higher	-1.107** [0.115]	-0.735** [0.171]	-0.438+ [0.258]	-0.768+ [0.417]	-0.160 [0.207]
Head of household unemployed	0.275* [0.115]	0.277 [0.264]	0.111 [0.423]	-0.274 [0.741]	-0.370 [0.399]
Log household size	0.313** [0.033]	0.360** [0.059]	0.284** [0.091]	0.314** [0.110]	0.287** [0.080]
Household composition (ref. : share of males age 18-60)					
Share of males age < 18	0.533** [0.088]	0.296+ [0.158]	0.178 [0.248]	0.443 [0.293]	0.779** [0.221]
Share of females age < 18	0.567** [0.089]	0.205 [0.160]	-0.100 [0.257]	0.357 [0.298]	0.705** [0.225]
Share of females age 18-60	0.299** [0.097]	0.185 [0.184]	0.337 [0.278]	-0.231 [0.330]	0.560* [0.256]
Share of males age > 60	0.419** [0.094]	0.328 [0.213]	0.159 [0.320]	1.302** [0.347]	0.537* [0.272]
Share of females age > 60	0.362** [0.097]	0.321 [0.205]	0.677* [0.308]	0.668+ [0.351]	0.810** [0.303]
BKKBN criteria					
Worship	-0.000 [0.037]	-0.176* [0.085]	-0.053 [0.105]	0.051 [0.143]	0.603** [0.177]
Food	-0.278** [0.096]	-0.264+ [0.151]	0.174 [0.246]	-0.528* [0.211]	-0.183 [0.119]
Clothing	-0.178** [0.057]	-0.372** [0.107]	-0.620** [0.159]	-0.753** [0.164]	0.241* [0.100]
Floor	-0.201** [0.041]	-0.064 [0.075]	-0.091 [0.125]	-0.676** [0.163]	0.066 [0.089]
Health	0.237** [0.040]	0.367** [0.075]	0.677** [0.114]	0.274* [0.131]	0.321** [0.087]
Main source of subsistence (ref. : agriculture)					
Mining/quarrying	0.218 [0.135]	0.246 [0.184]	-0.056 [0.411]	-0.264 [0.222]	-0.064 [0.548]
Processing industry	0.080+ [0.043]	-0.054 [0.107]	0.226 [0.138]	-0.051 [0.169]	0.064 [0.165]
Electricity/gas/water	-0.397 [0.354]	-0.907 [0.726]	-0.246 [1.031]		0.086 [0.847]
Construction	0.277** [0.050]	0.206+ [0.109]	0.299+ [0.165]	0.250 [0.199]	0.321+ [0.165]
Trade	-0.061+ [0.035]	-0.167* [0.076]	-0.093 [0.109]	-0.661** [0.170]	-0.067 [0.122]
Transport/storage/communication	0.182** [0.050]	0.069 [0.100]	0.213 [0.148]	-0.212 [0.217]	-0.181 [0.180]
Finance/real estate	-0.196 [0.161]	-0.805+ [0.463]	-0.687 [0.740]	-1.021 [1.023]	-0.839 [0.755]

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TABLE S.2 (continued)

	(1)	(2)	(3)	(4)	(5)
Services	0.081+	0.075	-0.163	-0.031	-0.027
	[0.043]	[0.082]	[0.131]	[0.161]	[0.108]
Other	-0.017	0.381	0.601	-1.428	0.816
	[0.175]	[0.318]	[0.567]	[1.026]	[0.852]
Income recipient	-0.197**	-0.315**	-0.394*	-0.604*	-0.033
	[0.054]	[0.121]	[0.160]	[0.264]	[0.165]
Household owns holy book	-0.083**	0.213**	0.071	0.178	0.344**
	[0.028]	[0.074]	[0.100]	[0.115]	[0.070]
Status of house (ref. : own property)					
Lease	-0.495**	-0.139	-0.301	-0.623	-1.093*
	[0.090]	[0.127]	[0.262]	[0.524]	[0.440]
Rent	-0.561**	0.097	-1.263**	-0.884**	-1.110**
	[0.123]	[0.095]	[0.466]	[0.301]	[0.310]
Official	0.507**	0.050	-0.205	-0.569+	-0.271
	[0.131]	[0.139]	[0.340]	[0.334]	[0.182]
Free	0.055	0.141	0.064	-0.221	0.193
	[0.065]	[0.095]	[0.152]	[0.234]	[0.170]
Other	0.030	0.233	0.607**	-0.327	0.072
	[0.103]	[0.158]	[0.202]	[0.342]	[0.233]
Type of roof (ref. : concrete)					
Corrugated tile	0.066	-0.368*	-0.256	-1.098*	-0.985**
	[0.113]	[0.169]	[0.320]	[0.504]	[0.276]
Shingle roof	-0.344	-0.072	0.348	-0.964*	-1.111+
	[0.323]	[0.267]	[0.423]	[0.477]	[0.589]
Iron sheeting	-0.080	-0.376*	-0.223	-0.819+	-0.552*
	[0.133]	[0.160]	[0.267]	[0.476]	[0.269]
Asbestos	0.006	-0.078	-0.385	-2.108*	-0.725
	[0.178]	[0.259]	[0.502]	[0.855]	[0.455]
Sugar palm fibre	0.085	-0.481	-0.136	-0.004	-0.434
	[0.322]	[0.354]	[0.363]	[0.609]	[0.493]
Leaves/other	-0.097	0.043	0.194	-0.569	-0.795**
	[0.158]	[0.172]	[0.279]	[0.479]	[0.273]
Type of wall (ref. : brick)					
Wood	0.162**	0.438**	0.264*	0.492*	0.568**
	[0.036]	[0.059]	[0.107]	[0.227]	[0.102]
Bamboo	0.522**	0.600**	0.461**	0.805*	0.270**
	[0.034]	[0.097]	[0.126]	[0.320]	[0.091]
Other	0.242+	0.191	0.243	0.453+	0.338**
	[0.145]	[0.196]	[0.162]	[0.250]	[0.100]
Type of floor (ref. : marble/ceramic)					
Floor tile	0.460**	0.152	0.125	-0.257	0.624+
	[0.059]	[0.200]	[0.372]	[0.531]	[0.349]
Cement plaster	0.901**	0.405**	0.869**	0.391	0.604*
	[0.057]	[0.151]	[0.308]	[0.436]	[0.270]
Wood	0.810**	0.240	0.602+	-0.007	0.506+
	[0.101]	[0.162]	[0.321]	[0.420]	[0.293]
Bamboo	1.070**	0.430+	0.977**	0.158	0.514
	[0.100]	[0.247]	[0.349]	[0.566]	[0.319]
Earth	1.137**	0.575**	1.073**	0.443	0.817**
	[0.070]	[0.176]	[0.337]	[0.477]	[0.286]
Other	0.138	0.515	0.167	1.401*	1.398**
	[0.234]	[0.561]	[0.578]	[0.611]	[0.325]

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TABLE S.2 (continued)

	(1)	(2)	(3)	(4)	(5)
Source drinking of water (ref. : bottled water)					
Tap	-0.402*	0.064	0.540	1.343	0.288
	[0.167]	[0.305]	[0.487]	[1.056]	[0.515]
Pump	-0.476**	0.223	-0.347	0.777	0.538
	[0.181]	[0.338]	[0.534]	[1.144]	[0.560]
Protected well	-0.462*	0.282	0.318	0.855	0.150
	[0.180]	[0.323]	[0.518]	[1.143]	[0.558]
Unprotected well	-0.346+	0.097	0.463	0.829	0.617
	[0.182]	[0.325]	[0.522]	[1.139]	[0.558]
Protected spring	-0.393*	0.396	0.631	-0.705	0.190
	[0.181]	[0.327]	[0.518]	[1.227]	[0.556]
Unprotected spring	-0.457*	0.013	0.063	0.680	0.415
	[0.184]	[0.333]	[0.538]	[1.202]	[0.557]
River	-0.182	0.104	-0.132	0.563	0.120
	[0.205]	[0.326]	[0.560]	[1.135]	[0.561]
Rain water/other	-0.202	0.532	-0.046	0.461	-0.339
	[0.194]	[0.332]	[0.547]	[1.139]	[0.570]
Do not purchase drinking water	0.106	-0.069	0.236	0.502	-0.041
	[0.071]	[0.116]	[0.188]	[0.433]	[0.214]
Drinking water facility					
Shared	0.251**	0.256**	0.161+	0.216	0.316**
	[0.029]	[0.059]	[0.085]	[0.136]	[0.090]
Public	0.061	0.259**	-0.186+	-0.172	0.457**
	[0.037]	[0.072]	[0.106]	[0.154]	[0.091]
None	0.081	0.192*	0.241+	0.476**	0.459**
	[0.059]	[0.087]	[0.141]	[0.134]	[0.127]
Source of light (ref. : PLN electricity)					
Non-PLN electricity	-0.199	-0.173	0.667**	-1.143**	0.265
	[0.124]	[0.114]	[0.200]	[0.378]	[0.166]
Pump lantern	-0.073	0.160*	0.431**	0.286	0.559**
	[0.097]	[0.078]	[0.120]	[0.176]	[0.137]
Oil lamp	0.019	0.308**	0.131	0.183+	0.145+
	[0.043]	[0.061]	[0.095]	[0.100]	[0.080]
Other	-0.221	0.008	-0.098	-0.068	-0.048
	[0.247]	[0.248]	[0.459]	[0.421]	[0.189]
Toilet facilities (ref. private)					
Shared	0.061	-0.000	0.078	0.596**	-0.007
	[0.039]	[0.083]	[0.115]	[0.138]	[0.115]
Public	0.320**	0.419**	0.639**	0.755**	0.213
	[0.051]	[0.085]	[0.167]	[0.151]	[0.152]
Other	0.228**	0.151+	0.028	-0.115	0.237*
	[0.048]	[0.077]	[0.130]	[0.137]	[0.103]
Toilet disposal (ref. : septic tank)					
Pond/rice field	-0.045	0.417**	-0.015	-0.005	0.793**
	[0.063]	[0.123]	[0.260]	[0.494]	[0.277]
River/lake/sea	0.200**	0.218**	0.303*	0.496**	0.180
	[0.049]	[0.085]	[0.147]	[0.168]	[0.133]
Hole	0.220**	0.306**	0.139	0.233	0.441**
	[0.036]	[0.071]	[0.099]	[0.156]	[0.098]
Shore/open field	0.363**	0.209+	0.291*	0.519*	0.168
	[0.072]	[0.112]	[0.142]	[0.217]	[0.133]
Other	0.016	0.195+	0.029	0.460+	0.297*
	[0.089]	[0.111]	[0.185]	[0.239]	[0.140]

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TABLE S.2 (continued)

	(1)	(2)	(3)	(4)	(5)
Nr. of <i>Puskesmas</i> in village	0.004 [0.031]	-0.011 [0.061]	0.051 [0.091]	-0.046 [0.102]	-0.113 [0.070]
Nr. of supporting <i>Puskesmas</i> in village	-0.186** [0.025]	-0.058 [0.041]	-0.051 [0.067]	-0.127+ [0.073]	-0.311** [0.057]
Nr. of <i>Polindes</i> in village	-0.016 [0.028]	-0.137** [0.051]	-0.094 [0.094]	0.072 [0.088]	-0.258** [0.081]
Nr. doctors living in village per 1,000 inhabitants	0.236** [0.037]	0.131** [0.046]	-0.174 [0.108]	-0.037 [0.152]	0.080+ [0.048]
Nr. village midwives living in village per 1,000 inhabitants	0.326** [0.067]	0.193** [0.032]	-0.002 [0.110]	0.366** [0.081]	0.116* [0.048]
Majority of inter village traffic by land	-0.942* [0.378]	0.651** [0.119]	0.182 [0.190]	0.417** [0.112]	0.075 [0.134]
Health facilities easy or very easy to reach	0.064 [0.061]	-0.117+ [0.070]	-0.293* [0.115]	0.036 [0.125]	0.236** [0.087]
Education head of village (ref. : not completed primary school)					
Primary	-0.217 [0.140]	-0.375** [0.141]	0.015 [0.311]	1.189** [0.274]	0.499** [0.154]
Junior secondary	-0.159 [0.140]	-0.516** [0.141]	0.228 [0.295]	1.025** [0.277]	0.226 [0.158]
Senior secondary	-0.117 [0.139]	-0.471** [0.140]	0.208 [0.293]	0.818** [0.280]	0.259 [0.160]
Higher	-0.176 [0.141]	-0.420** [0.156]	0.365 [0.301]	0.774* [0.327]	0.472** [0.179]
Rural area	-0.159** [0.039]	0.243** [0.084]	-0.095 [0.123]	-0.194 [0.186]	0.235* [0.111]
IDT village	0.066* [0.030]	0.205** [0.056]	0.103 [0.082]	-0.071 [0.093]	0.034 [0.096]
BKKBN poverty rate in sub-district, Jan. 1999	0.892** [0.085]	0.835** [0.162]	0.358 [0.292]	0.893** [0.294]	0.114 [0.185]
Constant	-2.201** [0.493]	-3.783** [0.491]	-4.565** [0.798]	-4.503** [1.300]	-6.587** [0.777]
District dummy variables	(Coefficients not shown for convenience)				
Observations	87,061	43,381	23,779	15,697	22,441
Pseudo R-squared	0.20	0.12	0.17	0.15	0.26

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Standard errors in brackets.

Source: Authors' analysis based on data from Indonesia's annual *Susenas* household survey; see description in text.

*EXPENDITURE OF SSN BUDGET DATA*

A survey conducted in June 1999 among 3,802 public health clinics and 3,989 village midwives provides information on the way in which the health care providers have spent the SSN budgetary support. It provided a substantial additional source of financing for the public health clinics. In June 1999 BPS also conducted a survey among 3,802 public health clinics and 3,989 village midwives. This provides information on the way in which the health care providers have spent the SSN funds.

The 1999 health facility survey can provide some more insight on how the SSN health funds have been used. Disbursements to public providers started at the end of 1998, and they were left fairly free in how to utilise the funds. Table S.3 shows the type of expenses for which the health clinics chose to use the SSN health grants. The largest fraction (41 percent) of SSN health spending concerned medicines and 12 percent was spent on additional materials. In rural areas the share used for medicine is far larger than in urban areas (43 and 38 percent respectively). The village midwives used 38 percent of the funds for medicine and 16 percent for supplies, both urban and rural. This reflects the shortage of medicine during the crisis, suggesting that this problem was especially relevant in rural areas.

TABLE S.3 Type of expenses for which SSN transfers to health clinics have been used (as percentage of total SSN health program transfers)

	Public health clinic			Village midwife		
	Urban	Rural	Indonesia	Urban	Rural	Indonesia
Medicine procurement	37.64	43.21	41.40	39.09	38.36	38.44
Medical disposables	14.29	11.56	12.45	16.31	16.49	16.47
Food for in-patients	2.57	1.87	2.10			
Transport costs for referral	5.75	6.75	6.43	3.73	4.09	4.05
other transport expenses				22.38	20.51	20.72
Birth aids by village midwife	17.05	17.95	17.65			
Contraceptive tools				2.01	3.13	3.01
Tax to Pemda	1.42	1.49	1.47			
Honorarium	2.23	2.04	2.10			
Other	19.05	15.13	16.40	16.48	17.40	17.30
Number of clinics	1,319	2,411	3,730	404	3,242	3,646

*Source:* 1999 Social Safety Net survey – public health centres (*Puskemas*) and village midwives (*Bidan di desa*).

SUPPLEMENTARY TABLES AND FIGURES

TABLE S.4 Changes in outpatient contact rates, 1995 to 1999, by type of provider

Provider	1995	1997	1998	1999
Public hospital	0.64 [0.015]	0.60 [0.017]	0.64 [0.017]	0.59 [0.019]
Private hospital	0.40 [0.016]	0.41 [0.015]	0.40 [0.013]	0.39 [0.018]
Private doctor	3.01 [0.050]	3.14 [0.053]	2.84 [0.044]	2.63 [0.052]
Primary health centre ( <i>Puskesmas</i> )	4.66 [0.065]	4.31 [0.069]	3.25 [0.049]	3.46 [0.057]
Subsidiary health centre ( <i>Puskesmas Pembantu</i> )	1.69 [0.046]	1.66 [0.044]	1.01 [0.031]	1.01 [0.032]
Private clinic	0.42 [0.020]	0.39 [0.020]	0.34 [0.015]	0.31 [0.016]
Integrated health centre ( <i>Posyandu</i> )	0.19 [0.009]	0.20 [0.011]	0.12 [0.008]	0.10 [0.007]
Village maternity room ( <i>Polindes</i> )	0.38 [0.017]	0.24 [0.013]	0.26 [0.015]	0.40 [0.015]
Paramedical practitioner ( <i>Petugas</i> )	2.82 [0.048]	2.93 [0.052]	2.80 [0.048]	2.70 [0.049]
Traditional care	0.73 [0.020]	0.63 [0.018]	0.43 [0.014]	0.40 [0.015]
Total public	7.00 [0.083]	6.65 [0.085]	5.03 [0.062]	5.34 [0.071]
Total private	6.48 [0.073]	6.71 [0.079]	6.11 [0.070]	5.80 [0.078]
Total modern (public or private) <sup>a</sup>	12.83 [0.111]	12.83 [0.118]	10.48 [0.098]	10.53 [0.110]
Nr. of observations	873,647	887,266	880,040	864,580

<sup>a)</sup> The contact rate for all modern care is smaller than the sum of the contact rates for public and private care since individuals who sought both public and private care are counted only once in the aggregate.

*Note:* Standard errors in square brackets.

*Source:* Authors' analysis based on data from Indonesia's annual *Susenas* household survey; see description in text.

TABLE S.5 SSN budget allocation to public health care providers, 1998/1999 (1000' Rupiah)

Region	Total budget <i>Puskesmas</i> and village midwife	Population size <sup>a</sup>	Budget per capita	Health card coverage	Number of districts
Java Bali	158,524,734	123,646,893	1.282	0.139	117
Sumatra	57,686,076	43,396,301	1.329	0.072	73
Sulawesi	25,009,892	14,553,660	1.718	0.049	40
Kalimantan	15,747,384	11,210,671	1.405	0.052	29
Other islands	36,024,406	11,860,142	3.037	0.085	34
Indonesia	292,992,492	204,667,667	1.432	0.106	293

<sup>a)</sup> Based on population weights from Indonesia's 1999 *Susenas* household survey.

Source: Ministry of Health and Social Welfare, Indonesia.

TABLE S.6 Correlation SSN budget data with the pre-intervention trend in utilisation from 1997 – 1998

	(1) Outpatient 1998-1997	(2) Public 1998-1997	(3) Private 1998-1997
SSN per capita in district	-0.0013 [0.0020]	-0.0014 [0.0013]	0.0000 [0.0012]
Constant	-0.0252** [0.0038]	-0.0162** [0.0026]	-0.0077** [0.0023]
Observations	292	292	292
R-squared	0.00	0.00	0.00

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Standard errors in brackets.

Source: Authors' analysis based on data from Indonesia's annual *Susenas* household survey; see description in text.

TABLE S.7 Impact of health card ownership on utilisation of outpatient services (direct health card effect, 1month reference period)

Outpatient care	Intervention group	Control group	Difference ( $\hat{\beta}$ )	[s.e.] <sup>a</sup>	% Change	Direct effect ( $\hat{p}\hat{\beta}$ )	$\hat{p}$	N treated	N control
Quintile 1 (poor)	0.0993	0.0869	0.0123**	[0.0032]	14.2	0.0023	0.184	25,029	20,411
Quintile 2	0.1206	0.1080	0.0126**	[0.0040]	11.7	0.0017	0.137	19,561	17,905
Quintile 3	0.1333	0.1142	0.0191**	[0.0045]	16.8	0.0020	0.106	15,658	15,426
Quintile 4	0.1453	0.1292	0.0161**	[0.0055]	12.4	0.0011	0.071	10,922	12,048
Quintile 5 (rich)	0.1510	0.1451	0.0059	[0.0079]	4.0	0.0002	0.037	5,642	8,090
Male	0.1158	0.1069	0.0089**	[0.0030]	8.3	0.0009	0.105	38,062	36,641
Female	0.1270	0.1157	0.0113**	[0.0029]	9.8	0.0012	0.107	38,841	37,345
Urban	0.1392	0.1281	0.0110**	[0.0051]	8.6	0.0008	0.073	17,888	16,853
Rural	0.1149	0.1061	0.0088**	[0.0021]	8.3	0.0011	0.128	59,015	57,133
All	0.1215	0.1113	0.0101**	[0.0020]	9.1	0.0011	0.106	76,903	73,986
Public									
Quintile 1 (poor)	0.0729	0.0542	0.0187**	[0.0026]	34.6	0.0035	0.184	25,029	20,411
Quintile 2	0.0784	0.0585	0.0200**	[0.0032]	34.1	0.0027	0.137	19,561	17,905
Quintile 3	0.0859	0.0575	0.0284**	[0.0033]	49.3	0.0030	0.106	15,658	15,426
Quintile 4	0.0916	0.0627	0.0289**	[0.0043]	46.1	0.0020	0.071	10,922	12,048
Quintile 5 (rich)	0.0841	0.0590	0.0251**	[0.0057]	42.5	0.0009	0.037	5,642	8,090
Male	0.0734	0.0537	0.0197**	[0.0021]	36.8	0.0021	0.105	38,062	36,641
Female	0.0871	0.0622	0.0249**	[0.0022]	40.1	0.0027	0.107	38,841	37,345
Urban	0.0869	0.0628	0.0241**	[0.0034]	38.3	0.0017	0.073	17,888	16,853
Rural	0.0779	0.0565	0.0214**	[0.0017]	38.0	0.0027	0.128	59,015	57,133
All	0.0804	0.0580	0.0224**	[0.0015]	38.6	0.0024	0.106	76,903	73,986
Private									
Quintile 1 (poor)	0.0305	0.0371	-0.0066**	[0.0022]	-17.7	-0.0012	0.184	25,029	20,411
Quintile 2	0.0497	0.0547	-0.0051*	[0.0030]	-9.3	-0.0007	0.137	19,561	17,905
Quintile 3	0.0571	0.0641	-0.0070**	[0.0036]	-11.0	-0.0007	0.106	15,658	15,426
Quintile 4	0.0655	0.0765	-0.0110**	[0.0041]	-14.4	-0.0008	0.071	10,922	12,048
Quintile 5 (rich)	0.0803	0.0983	-0.0179**	[0.0068]	-18.2	-0.0007	0.037	5,642	8,090
Male	0.0501	0.0601	-0.0100**	[0.0023]	-16.6	-0.0010	0.105	38,062	36,641
Female	0.0477	0.0606	-0.0129**	[0.0021]	-21.3	-0.0014	0.107	38,841	37,345
Urban	0.0613	0.0726	-0.0113**	[0.0041]	-15.5	-0.0008	0.073	17,888	16,853
Rural	0.0442	0.0565	-0.0123**	[0.0015]	-21.7	-0.0016	0.128	59,015	57,133
All	0.0489	0.0604	-0.0115**	[0.0015]	-19.0	-0.0012	0.106	76,903	73,986

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

<sup>a)</sup> Bootstrapped standard errors with 500 replications.

TABLE S.8 Impact of health card ownership on utilisation of outpatient services (direct health card effect, 3 month reference period)

Outpatient care	Intervention group	Control group	Difference ( $\hat{\beta}$ )	[s.e.] <sup>a</sup>	% Change	Direct effect ( $\hat{p}\hat{\beta}$ )	$\hat{p}$	N treated	N control
Quintile 1 (poor)	0.1264	0.1110	0.0153**	[0.0036]	13.8	0.0028	0.185	24,901	20,283
Quintile 2	0.1475	0.1362	0.0113**	[0.0045]	8.3	0.0015	0.137	19,447	17,825
Quintile 3	0.1592	0.1420	0.0172**	[0.0049]	12.1	0.0018	0.106	15,582	15,347
Quintile 4	0.1767	0.1598	0.0170**	[0.0061]	10.6	0.0012	0.071	10,866	11,997
Quintile 5 (rich)	0.1773	0.1754	0.0019**	[0.0084]	1.1	0.0001	0.037	5,586	8,040
Male	0.1409	0.1325	0.0083**	[0.0032]	6.3	0.0009	0.105	37,854	36,437
Female	0.1566	0.1454	0.0111**	[0.0033]	7.6	0.0012	0.108	38,619	37,161
Urban	0.1615	0.1514	0.0101**	[0.0049]	6.7	0.0007	0.072	17,780	16,761
Rural	0.1440	0.1352	0.0089**	[0.0025]	6.6	0.0011	0.128	58,693	56,837
All	0.1488	0.1391	0.0098**	[0.0022]	7.0	0.0010	0.106	76,473	73,598
Public									
Quintile 1 (poor)	0.0950	0.0710	0.0240**	[0.0031]	33.9	0.0044	0.185	24,901	20,283
Quintile 2	0.1000	0.0755	0.0245**	[0.0035]	32.4	0.0034	0.137	19,447	17,825
Quintile 3	0.1056	0.0762	0.0293**	[0.0039]	38.5	0.0031	0.106	15,582	15,347
Quintile 4	0.1115	0.0820	0.0296**	[0.0047]	36.1	0.0021	0.071	10,866	11,997
Quintile 5 (rich)	0.1146	0.0731	0.0414**	[0.0063]	56.7	0.0015	0.037	5,586	8,040
Male	0.0922	0.0697	0.0225**	[0.0024]	32.3	0.0024	0.105	37,854	36,437
Female	0.1118	0.0810	0.0308**	[0.0027]	38.1	0.0033	0.108	38,619	37,161
Urban	0.1030	0.0734	0.0296**	[0.0038]	40.4	0.0021	0.072	17,780	16,761
Rural	0.1018	0.0760	0.0258**	[0.0020]	34.0	0.0033	0.128	58,693	56,837
All	0.1021	0.0754	0.0268**	[0.0018]	35.5	0.0028	0.106	76,473	73,598
Private									
Quintile 1 (poor)	0.0313	0.0400	-0.0087**	[0.0021]	-21.8	-0.0016	0.185	24,901	20,283
Quintile 2	0.0475	0.0608	-0.0132**	[0.0031]	-21.7	-0.0018	0.137	19,447	17,825
Quintile 3	0.0537	0.0658	-0.0121**	[0.0034]	-18.4	-0.0013	0.106	15,582	15,347
Quintile 4	0.0652	0.0778	-0.0126**	[0.0042]	-16.2	-0.0009	0.071	10,866	11,997
Quintile 5 (rich)	0.0627	0.1023	-0.0396**	[0.0068]	-38.7	-0.0015	0.037	5,586	8,040
Male	0.0486	0.0629	-0.0142**	[0.0023]	-22.6	-0.0015	0.105	37,854	36,437
Female	0.0447	0.0645	-0.0197**	[0.0022]	-30.6	-0.0021	0.108	38,619	37,161
Urban	0.0585	0.0780	-0.0195**	[0.0039]	-25.0	-0.0014	0.072	17,780	16,761
Rural	0.0422	0.0592	-0.0169**	[0.0016]	-28.6	-0.0022	0.128	58,693	56,837
All	0.0467	0.0637	-0.0170**	[0.0014]	-26.7	-0.0018	0.106	76,473	73,598

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

<sup>a)</sup> Bootstrapped standard errors with 500 replications.

TABLE S.9 Total effect of SSN budget allocation on change in use of modern outpatient care, public and private

	(1) All	(2) Q1	(3) Q2	(4) Q3	(5) Q4	(6) Q5	(7) Male	(8) Female	(9) Urban	(10) Rural
SSN budget allocation, per capita	0.0039+	0.0039	0.0073+	0.0012	0.0065*	0.0075*	0.0037+	0.0040+	0.0045	0.0060*
	[0.0022]	[0.0041]	[0.0038]	[0.0029]	[0.0032]	[0.0036]	[0.0022]	[0.0024]	[0.0048]	[0.0028]
Diff. age	-0.0028	-0.0023	-0.0109*	0.0004	-0.0030	0.0002	-0.0047	-0.0007	0.0044	-0.0011
	[0.0031]	[0.0059]	[0.0053]	[0.0041]	[0.0045]	[0.0051]	[0.0032]	[0.0034]	[0.0061]	[0.0040]
Diff. household size	0.0073	-0.0056	-0.0394+	-0.0025	0.0185	0.0144	0.0059	0.0089	-0.0140	0.0153
	[0.0121]	[0.0230]	[0.0207]	[0.0158]	[0.0175]	[0.0200]	[0.0123]	[0.0130]	[0.0233]	[0.0155]
Diff. % population in rural area	0.0032	0.0600	0.0107	-0.0409	0.0112	0.0792	-0.0042	0.0103	-0.0069	0.0078
	[0.0306]	[0.0601]	[0.0522]	[0.0399]	[0.0441]	[0.0504]	[0.0310]	[0.0329]	[0.0636]	[0.0381]
Diff. population	-0.0000	-0.0000	-0.0000	-0.0000	0.0000	0.0000	-0.0000	-0.0000	-0.0000	-0.0000
	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]
Diff. poverty rate ( $P_0$ )	-0.0065	-0.0200	0.0375	0.0436+	0.0172	0.0281	-0.0074	-0.0060	-0.0193	-0.0187
	[0.0182]	[0.0339]	[0.0310]	[0.0237]	[0.0262]	[0.0299]	[0.0184]	[0.0195]	[0.0350]	[0.0228]
Diff. poverty gap ( $P_1$ )	0.0387*	-0.0121	0.0330	0.0579**	0.0554*	0.0445+	0.0272+	0.0495**	0.0245	0.0302
	[0.0159]	[0.0300]	[0.0272]	[0.0208]	[0.0230]	[0.0263]	[0.0161]	[0.0172]	[0.0306]	[0.0205]
Sumatra	0.0001	-0.0062	-0.0038	0.0035	-0.0016	-0.0070	0.0004	-0.0002	-0.0129	0.0032
	[0.0049]	[0.0092]	[0.0083]	[0.0064]	[0.0071]	[0.0081]	[0.0050]	[0.0053]	[0.0093]	[0.0063]
Sulawesi	-0.0203**	-0.0156	-0.0182+	-0.0178*	-0.0274**	-0.0202+	-0.0168**	-0.0236**	-0.0307*	-0.0192*
	[0.0063]	[0.0118]	[0.0108]	[0.0082]	[0.0091]	[0.0104]	[0.0064]	[0.0068]	[0.0122]	[0.0081]
Kalimantan	-0.0044	0.0013	-0.0036	-0.0047	0.0044	-0.0111	-0.0039	-0.0050	-0.0060	0.0021
	[0.0067]	[0.0125]	[0.0114]	[0.0087]	[0.0096]	[0.0110]	[0.0068]	[0.0072]	[0.0129]	[0.0084]
Other islands	0.0041	-0.0134	-0.0139	0.0105	-0.0068	-0.0135	0.0041	0.0044	-0.0259	0.0017
	[0.0080]	[0.0151]	[0.0137]	[0.0105]	[0.0116]	[0.0133]	[0.0081]	[0.0087]	[0.0157]	[0.0101]
Constant	-0.0151+	0.0087	-0.0173	-0.0281*	-0.0301*	-0.0279+	-0.0103	-0.0197*	-0.0103	-0.0155
	[0.0087]	[0.0164]	[0.0148]	[0.0113]	[0.0125]	[0.0143]	[0.0088]	[0.0094]	[0.0170]	[0.0112]
Observations	293	290	293	293	293	293	293	293	286	276
R-squared	0.08	0.02	0.07	0.07	0.07	0.05	0.07	0.10	0.03	0.06

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Standard errors in brackets.

Source: Authors' analysis based on data described in text.

TABLE S.10 Total effect of SSN budget allocation on change in use of public outpatient care

	(1) All	(2) Q1	(3) Q2	(4) Q3	(5) Q4	(6) Q5	(7) Male	(8) Female	(9) Urban	(10) Rural
SSN budget allocation, per capita	0.0033*	0.0035	0.0080*	-0.0001	0.0059*	0.0094**	0.0026+	0.0040*	0.0016	0.0053**
	[0.0015]	[0.0033]	[0.0033]	[0.0022]	[0.0023]	[0.0023]	[0.0014]	[0.0017]	[0.0032]	[0.0020]
Diff. age	-0.0028	-0.0022	-0.0122*	-0.0019	-0.0035	-0.0012	-0.0038+	-0.0017	-0.0019	-0.0005
	[0.0021]	[0.0047]	[0.0047]	[0.0031]	[0.0033]	[0.0032]	[0.0020]	[0.0024]	[0.0041]	[0.0028]
Diff. household size	0.0029	-0.0088	-0.0353+	-0.0079	0.0075	-0.0032	0.0033	0.0029	-0.0127	0.0119
	[0.0081]	[0.0184]	[0.0184]	[0.0119]	[0.0127]	[0.0125]	[0.0077]	[0.0092]	[0.0156]	[0.0110]
Diff. % population in rural area	0.0252	0.0787	0.0246	-0.0555+	0.0476	0.1037**	0.0075	0.0426+	-0.0136	-0.0015
	[0.0203]	[0.0481]	[0.0464]	[0.0300]	[0.0321]	[0.0314]	[0.0194]	[0.0233]	[0.0427]	[0.0271]
Diff. population	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	-0.0000
	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]
Diff. poverty rate ( $P_0$ )	0.0082	-0.0058	0.0077	0.0407*	0.0082	0.0034	0.0047	0.0114	-0.0070	0.0100
	[0.0121]	[0.0272]	[0.0275]	[0.0178]	[0.0191]	[0.0186]	[0.0115]	[0.0138]	[0.0235]	[0.0163]
Diff. poverty gap ( $P_1$ )	0.0356**	-0.0027	0.0174	0.0476**	0.0366*	0.0133	0.0240*	0.0464**	0.0179	0.0343*
	[0.0106]	[0.0240]	[0.0242]	[0.0156]	[0.0167]	[0.0164]	[0.0101]	[0.0122]	[0.0205]	[0.0146]
Sumatra	-0.0015	-0.0005	-0.0099	0.0024	0.0006	-0.0055	-0.0030	0.0000	-0.0157*	0.0039
	[0.0032]	[0.0074]	[0.0074]	[0.0048]	[0.0051]	[0.0050]	[0.0031]	[0.0037]	[0.0062]	[0.0045]
Sulawesi	-0.0153**	-0.0121	-0.0186+	-0.0151*	-0.0203**	-0.0171**	-0.0136**	-0.0170**	-0.0236**	-0.0153**
	[0.0042]	[0.0094]	[0.0096]	[0.0062]	[0.0066]	[0.0065]	[0.0040]	[0.0048]	[0.0082]	[0.0057]
Kalimantan	0.0013	0.0066	-0.0003	-0.0007	0.0053	-0.0033	0.0008	0.0017	-0.0037	0.0052
	[0.0044]	[0.0100]	[0.0101]	[0.0066]	[0.0070]	[0.0069]	[0.0042]	[0.0051]	[0.0087]	[0.0060]
Other islands	-0.0011	-0.0122	-0.0214+	0.0019	-0.0137	-0.0277**	0.0003	-0.0023	-0.0269*	-0.0005
	[0.0053]	[0.0121]	[0.0122]	[0.0079]	[0.0084]	[0.0083]	[0.0051]	[0.0061]	[0.0105]	[0.0072]
Constant	-0.0128*	0.0054	-0.0055	-0.0180*	-0.0170+	-0.0125	-0.0071	-0.0182**	-0.0007	-0.0192*
	[0.0058]	[0.0131]	[0.0132]	[0.0085]	[0.0091]	[0.0089]	[0.0055]	[0.0066]	[0.0114]	[0.0079]
Observations	293	290	293	293	293	293	293	293	286	276
R-squared	0.11	0.02	0.07	0.09	0.08	0.10	0.09	0.12	0.06	0.09

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Standard errors in brackets.

Source: Authors' analysis based on data described in text.

TABLE S.11 Total effect of SSN budget allocation on change in use of private outpatient care

	(1) All	(2) Q1	(3) Q2	(4) Q3	(5) Q4	(6) Q5	(7) Male	(8) Female	(9) Urban	(10) Rural
SSN budget allocation, per capita	0.0009	0.0020	-0.0002	0.0016	0.0004	-0.0016	0.0012	0.0005	0.0031	0.0013
	[0.0013]	[0.0025]	[0.0018]	[0.0017]	[0.0020]	[0.0028]	[0.0014]	[0.0014]	[0.0031]	[0.0017]
Diff. age	-0.0000	-0.0019	-0.0004	0.0039	0.0012	0.0004	-0.0012	0.0012	0.0065+	-0.0004
	[0.0019]	[0.0035]	[0.0026]	[0.0024]	[0.0029]	[0.0040]	[0.0020]	[0.0020]	[0.0039]	[0.0025]
Diff. household size	0.0085	0.0017	-0.0026	0.0106	0.0158	0.0257	0.0085	0.0085	0.0045	0.0064
	[0.0074]	[0.0137]	[0.0101]	[0.0095]	[0.0111]	[0.0156]	[0.0078]	[0.0077]	[0.0148]	[0.0096]
Diff. % population in rural area	-0.0269	-0.0061	-0.0141	0.0119	-0.0370	-0.0289	-0.0285	-0.0253	-0.0002	0.0103
	[0.0187]	[0.0358]	[0.0255]	[0.0240]	[0.0280]	[0.0394]	[0.0197]	[0.0195]	[0.0404]	[0.0236]
Diff. population	-0.0000	-0.0000	-0.0000**	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]	[0.0000]
Diff. poverty rate ( $P_0$ )	-0.0195+	-0.0219	0.0267+	0.0054	0.0086	0.0158	-0.0178	-0.0213+	-0.0153	-0.0352*
	[0.0111]	[0.0202]	[0.0151]	[0.0142]	[0.0166]	[0.0234]	[0.0117]	[0.0116]	[0.0222]	[0.0142]
Diff. poverty gap ( $P_1$ )	0.0039	-0.0256	0.0194	0.0191	0.0262+	0.0265	0.0027	0.0052	0.0012	-0.0033
	[0.0097]	[0.0179]	[0.0133]	[0.0125]	[0.0146]	[0.0206]	[0.0103]	[0.0102]	[0.0194]	[0.0127]
Sumatra	0.0017	-0.0038	0.0054	0.0014	-0.0017	-0.0014	0.0034	-0.0000	0.0025	-0.0004
	[0.0030]	[0.0055]	[0.0041]	[0.0038]	[0.0045]	[0.0063]	[0.0032]	[0.0031]	[0.0059]	[0.0039]
Sulawesi	-0.0061	-0.0028	-0.0015	-0.0044	-0.0090	-0.0045	-0.0044	-0.0079+	-0.0108	-0.0053
	[0.0039]	[0.0070]	[0.0053]	[0.0049]	[0.0058]	[0.0082]	[0.0041]	[0.0040]	[0.0078]	[0.0050]
Kalimantan	-0.0063	-0.0042	-0.0030	-0.0056	-0.0001	-0.0065	-0.0054	-0.0073+	-0.0034	-0.0037
	[0.0041]	[0.0074]	[0.0056]	[0.0052]	[0.0061]	[0.0086]	[0.0043]	[0.0043]	[0.0082]	[0.0052]
Other islands	0.0069	-0.0023	0.0072	0.0101	0.0101	0.0187+	0.0068	0.0070	0.0024	0.0030
	[0.0049]	[0.0090]	[0.0067]	[0.0063]	[0.0074]	[0.0104]	[0.0052]	[0.0051]	[0.0100]	[0.0063]
Constant	-0.0029	0.0086	-0.0134+	-0.0159*	-0.0175*	-0.0141	-0.0028	-0.0031	-0.0078	0.0027
	[0.0053]	[0.0098]	[0.0072]	[0.0068]	[0.0080]	[0.0112]	[0.0056]	[0.0056]	[0.0108]	[0.0069]
Observations	293	290	293	293	293	293	293	293	286	276
R-squared	0.06	0.02	0.07	0.06	0.05	0.03	0.06	0.06	0.03	0.04

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Standard errors in brackets.

Source: Authors' analysis based on data described in text.

TABLE S.12 Sensitivity direct effect estimate, outpatient care (1 month recall; probit marginal effects)

	(1)	(2)	(3)
Health card	0.0109** [0.0020]	0.0106* [0.0052]	0.0114** [0.0021]
Health card * SSN per capita		0.0034 [0.0025]	
Health card * HC allocation per capita		-0.0289 [0.0188]	
Health card * SSN per HC in district			-0.0001 [0.0000]
Age	0.0007** [0.0001]	0.0007** [0.0001]	0.0007** [0.0001]
Female	0.0075** [0.0020]	0.0075** [0.0020]	0.0076** [0.0020]
Female head of household	-0.0115** [0.0031]	-0.0115** [0.0031]	-0.0116** [0.0031]
Education head of household			
Primary	-0.0025 [0.0022]	-0.0025 [0.0022]	-0.0027 [0.0022]
Junior secondary	0.0069+ [0.0042]	0.0069+ [0.0042]	0.0063 [0.0042]
Senior secondary	0.0103* [0.0044]	0.0102* [0.0044]	0.0095* [0.0044]
Higher	0.0489* [0.0211]	0.0486* [0.0211]	0.0472* [0.0207]
Log household size	-0.0381** [0.0026]	-0.0380** [0.0026]	-0.0382** [0.0026]
BKKBN criteria			
Worship	0.0126** [0.0030]	0.0125** [0.0030]	0.0130** [0.0030]
Food	-0.0086 [0.0076]	-0.0088 [0.0076]	-0.0075 [0.0075]
Clothing	0.0061 [0.0047]	0.0061 [0.0047]	0.0084+ [0.0047]
Floor	0.0024 [0.0022]	0.0024 [0.0022]	-0.0005 [0.0023]
Health	0.0494** [0.0028]	0.0493** [0.0028]	0.0505** [0.0028]
Agriculture main source of income	-0.0220** [0.0023]	-0.0220** [0.0023]	-0.0224** [0.0023]
Rural area	-0.0102** [0.0031]	-0.0103** [0.0030]	-0.0080** [0.0030]
IDT village	-0.0037 [0.0023]	-0.0036 [0.0023]	-0.0019 [0.0022]
Nr. of Puskesmas in village	0.0119** [0.0025]	0.0119** [0.0025]	0.0109** [0.0025]
Nr. of supporting Puskesmas in village	0.0081** [0.0020]	0.0081** [0.0020]	0.0073** [0.0020]
BKKBN rate per sub-district	-0.0269** [0.0060]	-0.0270** [0.0060]	0.0014 [0.0053]
SSN per capita in district	0.0126** [0.0016]	0.0112** [0.0020]	
HC allocation per capita in district	0.1059** [0.0109]	0.1195** [0.0146]	
SSN per health card in district			0.0000 [0.0000]
Poverty rate ( $P_0$ )	-0.0179** [0.0067]	-0.0181** [0.0067]	0.0139* [0.0060]
Poverty gap ( $P_I$ )	-0.0041 [0.0106]	-0.0029 [0.0106]	0.0277** [0.0103]
Observations	150,889	150,889	150,424
Pseudo R-squared	0.02	0.02	0.01

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Robust standard errors in brackets.

Source: Authors' analysis based on data described in text.

TABLE S.13 Sensitivity direct effect estimate, public care (1 month recall; probit marginal effects)

	(1)	(2)	(3)
Health card	0.0235** [0.0015]	0.0272** [0.0038]	0.0239** [0.0016]
Health card * SSN per capita		-0.0015 [0.0019]	
Health card * HC allocation per capita		-0.0059 [0.0137]	
Health card * SSN per HC in district			-0.0000 [0.0000]
Age	0.0002** [0.0000]	0.0002** [0.0000]	0.0002** [0.0000]
Female	0.0097** [0.0015]	0.0097** [0.0015]	0.0097** [0.0015]
Female head of household	-0.0065** [0.0024]	-0.0065** [0.0024]	-0.0065** [0.0024]
Education head of household			
Primary	-0.0040* [0.0017]	-0.0040* [0.0017]	-0.0043* [0.0017]
Junior secondary	0.0003 [0.0030]	0.0002 [0.0030]	0.0001 [0.0030]
Senior secondary	-0.0012 [0.0032]	-0.0012 [0.0032]	-0.0011 [0.0032]
Higher	-0.0229** [0.0059]	-0.0229** [0.0059]	-0.0227** [0.0060]
Log household size	-0.0234** [0.0020]	-0.0234** [0.0020]	-0.0233** [0.0020]
BKKBN criteria			
Worship	0.0154** [0.0022]	0.0153** [0.0022]	0.0161** [0.0022]
Food	-0.0133* [0.0062]	-0.0132* [0.0062]	-0.0137* [0.0062]
Clothing	-0.0039 [0.0040]	-0.0039 [0.0039]	-0.0028 [0.0039]
Floor	0.0044** [0.0017]	0.0044* [0.0017]	0.0029+ [0.0017]
Health	0.0307** [0.0021]	0.0307** [0.0021]	0.0311** [0.0021]
Agriculture main source of income	-0.0125** [0.0017]	-0.0125** [0.0017]	-0.0124** [0.0018]
Rural area	-0.0027 [0.0023]	-0.0027 [0.0023]	-0.0006 [0.0022]
IDT village	0.0021 [0.0017]	0.0020 [0.0017]	0.0043* [0.0017]
Nr. of Puskesmas in village	0.0098** [0.0019]	0.0098** [0.0019]	0.0094** [0.0019]
Nr. of supporting Puskesmas in village	0.0118** [0.0015]	0.0119** [0.0015]	0.0116** [0.0015]
BKKBN rate per sub-district	-0.0199** [0.0041]	-0.0198** [0.0041]	-0.0015 [0.0038]
SSN per capita in district	0.0119** [0.0012]	0.0125** [0.0015]	
HC allocation per capita in district	0.0470** [0.0077]	0.0507** [0.0114]	
SSN per health card in district			0.0000+ [0.0000]
Poverty rate ( $P_0$ )	-0.0087+ [0.0051]	-0.0090+ [0.0051]	0.0142** [0.0045]
Poverty gap ( $P_1$ )	0.0261** [0.0077]	0.0258** [0.0077]	0.0474** [0.0076]
Observations	150,889	150,889	150,424
Pseudo R-squared	0.02	0.02	0.01

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Robust standard errors in brackets.

Source: Authors' analysis based on data described in text.

TABLE S.14 Sensitivity direct effect estimate, private care (1 month recall; probit marginal effects)

	(1)	(2)	(3)
Health card	-0.0113** [0.0015]	-0.0140** [0.0038]	-0.0109** [0.0016]
Health card * SSN per capita		0.0035+ [0.0019]	
Health card * HC allocation per capita		-0.0161 [0.0140]	
Health card * SSN per HC in district			-0.0001 [0.0001]
Age	0.0006** [0.0000]	0.0006** [0.0000]	0.0006** [0.0000]
Female	-0.0022 [0.0014]	-0.0022 [0.0014]	-0.0022 [0.0014]
Female head of household	-0.0072** [0.0021]	-0.0073** [0.0021]	-0.0073** [0.0021]
Education head of household			
Primary	0.0009 [0.0016]	0.0009 [0.0016]	0.0009 [0.0016]
Junior secondary	0.0057+ [0.0032]	0.0057+ [0.0032]	0.0053+ [0.0032]
Senior secondary	0.0117** [0.0033]	0.0117** [0.0033]	0.0110** [0.0033]
Higher	0.0685** [0.0210]	0.0682** [0.0210]	0.0666** [0.0206]
Log household size	-0.0184** [0.0018]	-0.0183** [0.0018]	-0.0186** [0.0018]
BKKBN criteria			
Worship	-0.0017 [0.0022]	-0.0017 [0.0022]	-0.0020 [0.0022]
Food	0.0034 [0.0049]	0.0032 [0.0049]	0.0044 [0.0048]
Clothing	0.0106** [0.0031]	0.0106** [0.0031]	0.0117** [0.0031]
Floor	-0.0013 [0.0016]	-0.0013 [0.0016]	-0.0027+ [0.0016]
Health	0.0210** [0.0020]	0.0210** [0.0020]	0.0218** [0.0019]
Agriculture main source of income	-0.0118** [0.0016]	-0.0118** [0.0016]	-0.0123** [0.0016]
Rural area	-0.0076** [0.0022]	-0.0077** [0.0022]	-0.0074** [0.0023]
IDT village	-0.0061** [0.0016]	-0.0060** [0.0016]	-0.0061** [0.0016]
Nr. of Puskesmas in village	0.0022 [0.0018]	0.0022 [0.0018]	0.0016 [0.0018]
Nr. of supporting Puskesmas in village	-0.0039** [0.0014]	-0.0039** [0.0014]	-0.0044** [0.0014]
BKKBN rate per sub-district	-0.0066 [0.0046]	-0.0066 [0.0046]	0.0055 [0.0040]
SSN per capita in district	0.0014 [0.0012]	-0.0000 [0.0014]	
HC allocation per capita in district	0.0693** [0.0082]	0.0760** [0.0101]	
SSN per health card in district			-0.0001 [0.0000]
Poverty rate ( $P_0$ )	-0.0155** [0.0047]	-0.0155** [0.0047]	-0.0038 [0.0043]
Poverty gap ( $P_1$ )	-0.0336** [0.0078]	-0.0328** [0.0078]	-0.0200** [0.0075]
Observations	150,889	150,889	150,424
Pseudo R-squared	0.03	0.03	0.03

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Robust standard errors in brackets.

Source: Authors' analysis based on data described in text.

TABLE S.15 Sensitivity direct effect estimate to selection on needs bias (direct health card effect, 1 month reference period). The propensity score function includes a dummy variable that indicates whether a health complaint has disrupted work, school or daily activities of a household member.

Outpatient care	Intervention group	Control group	Difference ( $\hat{\beta}$ )	[s.e.] <sup>a</sup>	% Change	Direct effect ( $\hat{\rho}\hat{\beta}$ )	$\hat{\rho}$	N treated	N control
Quintile 1 (poor)	0.0993	0.0866	0.0127**	[0.0031]	14.7	0.0023	0.184	25,046	20,796
Quintile 2	0.1205	0.1056	0.0149**	[0.0041]	14.1	0.0020	0.137	19,611	17,658
Quintile 3	0.1330	0.1197	0.0132**	[0.0047]	11.0	0.0014	0.106	15,655	15,393
Quintile 4	0.1450	0.1378	0.0072	[0.0058]	5.2	0.0005	0.071	10,912	12,374
Quintile 5 (rich)	0.1509	0.1468	0.0041	[0.0076]	2.8	0.0002	0.037	5,641	7,942
Male	0.1155	0.1097	0.0059*	[0.0028]	5.4	0.0006	0.105	38,085	36,843
Female	0.1269	0.1167	0.0102**	[0.0029]	8.8	0.0011	0.107	38,871	37,420
Urban	0.1390	0.1316	0.0074	[0.0049]	5.6	0.0005	0.073	17,879	17,048
Rural	0.1147	0.1073	0.0074**	[0.0022]	6.9	0.0009	0.128	59,077	57,215
All	0.1213	0.1132	0.0081**	[0.0020]	7.1	0.0009	0.106	76,956	74,263
Public									
Quintile 1 (poor)	0.0729	0.0534	0.0195**	[0.0025]	36.5	0.0036	0.184	25,046	20,796
Quintile 2	0.0784	0.0577	0.0207**	[0.0032]	35.9	0.0028	0.137	19,611	17,658
Quintile 3	0.0855	0.0614	0.0240**	[0.0036]	39.2	0.0025	0.106	15,655	15,393
Quintile 4	0.0914	0.0685	0.0230**	[0.0044]	33.5	0.0016	0.071	10,912	12,374
Quintile 5 (rich)	0.0840	0.0665	0.0175**	[0.0056]	26.3	0.0006	0.037	5,641	7,942
Male	0.0732	0.0561	0.0171**	[0.0022]	30.5	0.0018	0.105	38,085	36,843
Female	0.0871	0.0639	0.0231**	[0.0023]	36.1	0.0025	0.107	38,871	37,420
Urban	0.0867	0.0681	0.0187**	[0.0036]	27.4	0.0014	0.073	17,879	17,048
Rural	0.0778	0.0575	0.0203**	[0.0017]	35.3	0.0026	0.128	59,077	57,215
All	0.0802	0.0601	0.0201**	[0.0016]	33.5	0.0021	0.106	76,956	74,263
Private									
Quintile 1 (poor)	0.0305	0.0374	-0.0069**	[0.0020]	-18.3	-0.0013	0.184	25,046	20,796
Quintile 2	0.0495	0.0544	-0.0048+	[0.0029]	-8.9	-0.0007	0.137	19,611	17,658
Quintile 3	0.0572	0.0655	-0.0083*	[0.0035]	-12.7	-0.0009	0.106	15,655	15,393
Quintile 4	0.0654	0.0796	-0.0142*	[0.0043]	-17.8	-0.0010	0.071	10,912	12,374
Quintile 5 (rich)	0.0803	0.0941	-0.0138*	[0.0062]	-14.6	-0.0005	0.037	5,641	7,942
Male	0.0500	0.0606	-0.0106**	[0.0022]	-17.5	-0.0011	0.105	38,085	36,843
Female	0.0478	0.0605	-0.0127**	[0.0021]	-21.1	-0.0014	0.107	38,871	37,420
Urban	0.0613	0.0706	-0.0092**	[0.0037]	-13.1	-0.0007	0.073	17,879	17,048
Rural	0.0442	0.0574	-0.0132**	[0.0016]	-22.9	-0.0017	0.128	59,077	57,215
All	0.0489	0.0606	-0.0117**	[0.0015]	-19.3	-0.0012	0.106	76,956	74,263

<sup>a)</sup> Bootstrapped standard errors with 500 replications.

Source: Authors' analysis based on data described in text.

TABLE S.16 Sensitivity total effect estimate (IV)

	(1)	(2)	(3)	(4)	(5)	(6)
	Outpatient	Outpatient	Public	Public	Private	Private
SSN per capita in district	0.0042 [0.0028]	0.0044 [0.0032]	0.0037* [0.0019]	0.0039+ [0.0022]	0.0007 [0.0017]	0.0007 [0.0020]
Health card coverage in district	-0.0118 [0.0628]		-0.0159 [0.0421]		0.0081 [0.0381]	
SSN*HC		-0.0054 [0.0244]		-0.0060 [0.0163]		0.0020 [0.0148]
Diff. age	-0.0028 [0.0032]	-0.0028 [0.0032]	-0.0029 [0.0021]	-0.0028 [0.0021]	0.0000 [0.0019]	-0.0000 [0.0019]
Diff. household size	0.0081 [0.0128]	0.0083 [0.0129]	0.0039 [0.0086]	0.0040 [0.0086]	0.0080 [0.0078]	0.0082 [0.0078]
Diff. % population in rural area	0.0033 [0.0308]	0.0034 [0.0308]	0.0254 [0.0207]	0.0255 [0.0206]	-0.0270 [0.0187]	-0.0269 [0.0187]
Diff. population	-0.0000 [0.0000]	-0.0000 [0.0000]	0.0000 [0.0000]	0.0000 [0.0000]	-0.0000 [0.0000]	-0.0000 [0.0000]
Diff. poverty rate ( $P_0$ )	-0.0060 [0.0184]	-0.0063 [0.0183]	0.0088 [0.0124]	0.0084 [0.0122]	-0.0198+ [0.0112]	-0.0196+ [0.0111]
Diff. poverty gap ( $P_1$ )	0.0385* [0.0161]	0.0381* [0.0163]	0.0353** [0.0108]	0.0349** [0.0109]	0.0040 [0.0098]	0.0041 [0.0099]
Sumatra	-0.0007 [0.0064]	-0.0005 [0.0057]	-0.0025 [0.0043]	-0.0022 [0.0038]	0.0022 [0.0039]	0.0019 [0.0035]
Sulawesi	-0.0214* [0.0090]	-0.0213** [0.0078]	-0.0169** [0.0060]	-0.0164** [0.0052]	-0.0053 [0.0054]	-0.0058 [0.0047]
Kalimantan	-0.0055 [0.0090]	-0.0053 [0.0079]	-0.0003 [0.0060]	0.0003 [0.0053]	-0.0056 [0.0055]	-0.0060 [0.0048]
Other islands	0.0029 [0.0102]	0.0036 [0.0085]	-0.0027 [0.0068]	-0.0017 [0.0057]	0.0077 [0.0062]	0.0071 [0.0051]
Constant	-0.0138 [0.0113]	-0.0143 [0.0095]	-0.0110 [0.0076]	-0.0119+ [0.0063]	-0.0038 [0.0068]	-0.0032 [0.0058]
Observations	293	293	293	293	293	293
R-squared	0.08	0.08	0.09	0.09	0.06	0.06
Instrumented	HC	SSN*HC	HC	SSN*HC	HC	SSN*HC
Over-identifying restrictions test						
$\chi^2$ (1)	0.110	0.096	0.009	0.018	0.662	0.690
Probability	0.741	0.756	0.923	0.893	0.416	0.406
Durbin-Wu-Hausman test						
F (1, 279)	1.667	1.592	3.784	3.888	0.027	0.008
Probability	0.198	0.208	0.053	0.050	0.870	0.928
First stage regression	HC	SSN*HC				
Instruments						
BKKBN pre-prosperous	0.2315** [0.0347]	0.5833** [0.0823]				
BKKBN KS1	0.0285 [0.0535]	-0.0187 [0.1270]				
	(other results omitted)					
Joint significance instruments						
F (1, 279)	22.807	26.786				
Probability	0.000	0.000				

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

Note: Robust standard errors in brackets.

Source: Authors' analysis based on data described in text.

TABLE S.17 Correlation BKKBN data with the pre-intervention trend in utilisation from 1997 – 1998

	(1) Outpatient 1998-1997	(2) Public 1998-1997	(3) Private 1998-1997
BKKBN pre-prosperous	-0.0045 [0.0111]	-0.0027 [0.0076]	-0.0030 [0.0066]
BKKBN prosperous I	-0.0143 [0.0190]	-0.0182 [0.0130]	-0.0006 [0.0113]
Constant	-0.0230** [0.0056]	-0.0135** [0.0038]	-0.0070* [0.0033]
Observations	292	292	292
R-squared	0.00	0.01	0.00

+ significant at 10%; \* significant at 5%; \*\* significant at 1%

*Note:* Robust standard errors in brackets.

*Source:* Authors' analysis based on data described in text.

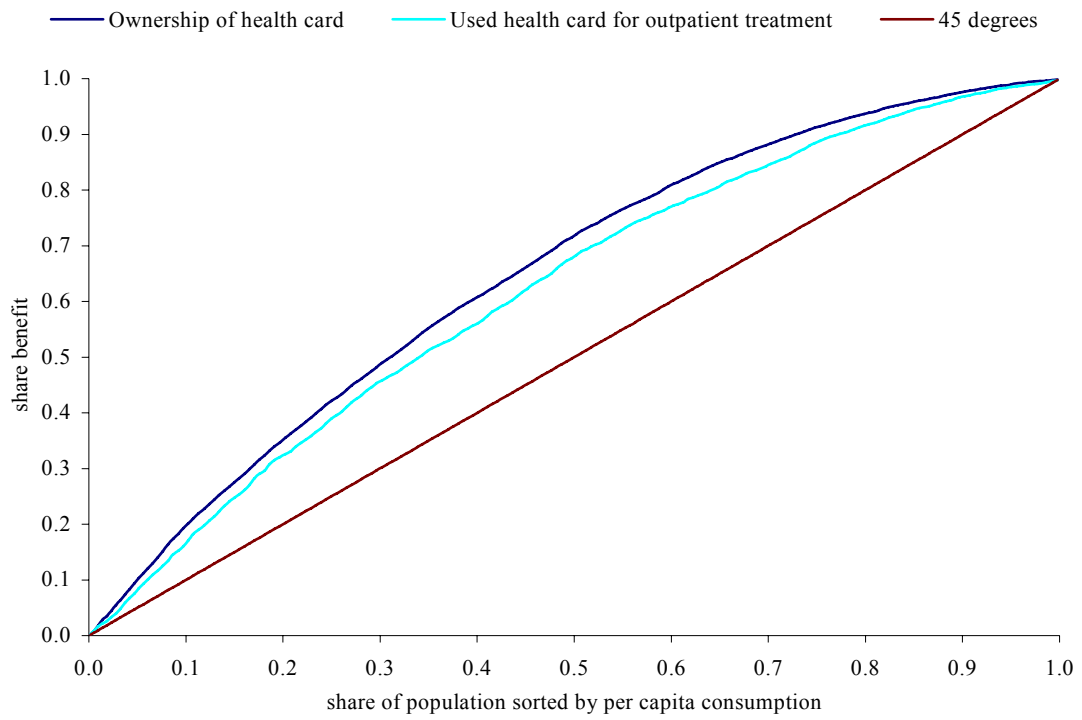


FIGURE S.2 Concentration curve for ownership and use of health card to obtain benefits associated with outpatient treatment

Source: Authors' analysis based on data from Indonesia's annual *Susenas* household survey; see description in text.