Table A1
Replicating the Core RAND Results

	Share with Any Medical Expenditures		Share with Hosp	oital Admissions	Medical Spending	Medical Spending (Share of FC Plan)		
	RAND Results (1)	Replication (2)	RAND Results (3)	Replication (4)	RAND Results (5)	Replication (6)		
Free Care	86.8%	86.9%	10.3%	10.2%	100%	100%		
25% Coinsurance	78.7%	78.9%	8.4%	8.4%	85%	84%		
50% Coinsurance	77.2%	77.3%	7.2%	7.1%	90%	89%		
95% Coinsurance	67.7%	67.6%	7.9%	7.9%	69%	69%		
Individual Deductible	72.3%	72.5%	9.6%	9.6%	81%	80%		
p-value: all coefficients equal	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0030	0.0012		
p-value: free care vs. 95% coinsurance	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001		

	Inpatient Spending (Share of FC Plan)		Outpatient Spendin	g (Share of FC Plan)	N (Individual-Year Observations)		
	RAND Results (7)	Replication (8)	RAND Results (9)	Replication (10)	RAND Results (11)	Replication (12)	
Free Care	100%	100%	100%	100%	6,822	6,840	
25% Coinsurance	91%	91%	76%	77%	4,065	4,063	
50% Coinsurance	110%	108%	66%	65%	1,401	1,401	
95% Coinsurance	77%	77%	60%	60%	3,727	3,724	
Individual Deductible	91%	91%	69%	69%	4,175	4,175	
p-value: all coefficients equal	0.3926	0.3720	< 0.0001	< 0.0001			
p-value: free care vs. 95% coinsurance	0.0270	0.0458	< 0.0001	< 0.0001			

Table Notes: The columns labeled "RAND Results" report results from Table 3.2 of Newhouse et al. 1993. The medical, inpatient, and outpatient spending means adjust for inflation using the CPI-U; these means are reported as shares of the free care plan mean because we were unable to determine the exact CPI-U adjustment used in Newhouse et al. The hypothesis tests cluster standard errors by family. In order to match the Newhouse et al. figures, the 25% coinsurance rate sample here includes 480 individuals who faced a coinsurance rate of 50% for dental and mental health services and 25% for all other services. For the purposes of the replication exercise here, we follow the the original RAND approach and exlcude dental and outpatient mental health spending for medical spending; therefore the results here differ from the total spending results in Table 2 which include these categories.

Table A2

Quantile Regressions (Total Spending)

10th pctile 20th pctile 30th pctile 40th pctile 50th pctile 60th pctile 70th pctile 80th pctile 90th pctile

Panel A: Quantile Regression Results - T	otal Spending	<u> </u>							
Constant (Free Care Plan, N = 6,840)	79	230	366	523	731	1013	1490	2577	5478
	(9)	(12)	(13)	(17)	(22)	(31)	(55)	(124)	(217)
25% Coins (N = 2,361)	-65	-145	-167	-220	-301	-407	-559	-919	-1859
	(10)	(20)	(20)	(29)	(33)	(47)	(87)	(173)	(371)
Mixed Coins (N = 1,702)	-65	-116	-152	-206	-288	-389	-570	-1041	-1645
	(11)	(20)	(20)	(26)	(36)	(50)	(90)	(192)	(447)
50% Coins (N = 1,401)	-65	-160	-203	-257	-339	-461	-692	-1215	-2488
	(10)	(17)	(23)	(33)	(37)	(53)	(88)	(169)	(416)
Individual Deductible (N = 4,175)	-65	-160	-238	-285	-350	-403	-499	-697	-1164
	(10)	(14)	(16)	(23)	(32)	(43)	(75)	(176)	(324)
95% Coins (N = 3,724)	-65	-160	-256	-351	-465	-604	-832	-1410	-2415
	(10)	(14)	(16)	(21)	(27)	(39)	(70)	(153)	(321)
Panel B: Estimated Effects as Share of Fi	ree Care Plan	<b>Spending</b>							
25% Coins (N = 2,361)	-83%	-63%	-46%	-42%	-41%	-40%	-38%	-36%	-34%
Mixed Coins (N = 1,702)	-83%	-50%	-42%	-39%	-39%	-38%	-38%	-40%	-30%
50% Coins (N = 1,401)	-83%	-70%	-56%	-49%	-46%	-46%	-46%	-47%	-45%
Individual Deductible (N = 4,175)	-83%	-70%	-65%	-55%	-48%	-40%	-33%	-27%	-21%
95% Coins (N = 3,724)	-83%	-70%	-70%	-67%	-64%	-60%	-56%	-55%	-44%

Table Notes: The omitted category is the free care plan. Standard errors are in parentheses below the coefficients. Standard errors are calculated based on 500 bootstraps clustered on family. Because assignment to plans was random only conditional on site and start month (Newhouse et al., 1993), all regressions include site by start month dummy variables, as well as year fixed effects; spending variables are in 2011 dollars, adjusted for inflation using the CPI-U. Site by start month and year dummy variables are demeaned so that the coefficients reflect estimates for the "average" sitemonth-year mix.

Table A3
Covariate Balance at Assignment

Penal A: Countains Included in Finite Selection Model		F C	250/ 0-1	Maineral Colors	F00/ C-:	Individual	050/ 0-:		p-va	p-values	
log family size white of family denies   0.58   0.87   0.89   0.84   0.55   0.5		Free Care	25% Coins	Mixed Coins	50% Coins	Deductible	95% Coins	FC vs. 95%	FC vs. 25%	25% vs. 95%	all equal
share (of family) age 10 to 5	Panel A: Covariates Included in Finite Selection Model										
share (of family) age to 1 or 5 of 1 or 1	log family size	0.88	0.85	0.82	0.87	0.87	0.89	0.84	0.55	0.47	0.83
share (of family) age 16 17  **The Army Committee (of family) age 18 10 4  **O.80  **O	share (of family) female	0.51	0.55	0.53	0.55	0.53	0.55	0.11	0.25	0.98	0.65
share (of family) age 18 to 44  0.48  0.46  0.51  0.49  0.40  0.50  0.00											0.68
age data missing "											0.96
all family members white acree data missing and family head is a high school graduate and an arranged family head is a high school graduate and an arranged family head is a high school graduate and an arranged family head explored high school and a sing school graduate and a sing school and school and a sing school and school and a sing school and a sing school and a sing school and school and a sing school and school											0.79
race data missing made family head sis a high school graduate											0.96 0.95
male family head is a high school graduate  0.33											0.95
male family head beyond high school make family head deutation data missing 0.25 0.27 0.31 0.33 0.27 0.28 0.36 0.54 0.93 0.95 0.51 0.54 0.93 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95											0.43
male family head education data missing (											0.39
female family head is a high school graduate female family head beyond high school graduate female family head beyond high school of 30 0.29 0.27 0.26 0.28 0.30 0.97 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.77 0.94 0.92 0.92 0.92 0.92 0.92 0.92 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93											0.54
female family head education data missing											0.92
log family income (adjusted for family size)	female family head beyond high school	0.30	0.29	0.27	0.26	0.28	0.30	0.97	0.94	0.92	0.98
Family income missing	female family head education data missing	0.16	0.14	0.15	0.11	0.16	0.13	0.20	0.56	0.72	0.67
anyone in family working	log family income (adjusted for family size)										0.90
work data missing maximum hourly wage of family members											0.47
maximum hourly wage of family members   5,77   5,18   4,96   5,01   5,42   5,16   0,67   0,71   0,95   hourly wage data missing   0,20   0,21   0,22   0,12   0,30   0,00   0,84   0,34   0,34   family had preexisting coverage   0,85   0,84   0,84   0,89   0,86   0,89   0,06   0,84   0,13   preexisting coverage data missing   0,06   0,05   0,06   0,82   0,44   0,55   share of family members reporting excellent health   0,41   0,36   0,44   0,35   0,47   0,49   0,14   0,06   0,45   share of family members reporting reversed possible   0,06   0,00   0,00   0,00   0,00   0,00   0,00   0,00   0,45   0,29   0,32   share of family members reporting frequent pain   0,19   0,16   0,20   0,18   0,66   0,12   0,28   pain data missing   0,00   0,01   0,00   0,01   0,00   0,00   0,00   0,45   0,29   0,32   pain data missing   0,00   0,01   0,00   0,01   0,00   0,00   0,00   0,45   0,29   0,32   pain data missing   0,00   0,01   0,00   0,01   0,00   0,00   0,00   0,44   0,33   0,44   worry data missing   0,00   0,00   0,00   0,00   0,00   0,00   0,00   0,45   0,29   0,32   warry are family members soptialized last year   0,10   0,07   0,12   0,09   0,00   0,00   0,00   0,45   0,29   0,32   warry are missing   0,01   0,07   0,12   0,09   0,00   0,00   0,00   0,45   0,29   0,32   warry are missing   0,01   0,01   0,00   0,00   0,00   0,00   0,45   0,29   0,32   warry are missing   0,07   0,07   0,12   0,09   0,09   0,49   0,65   warry are missing   0,07   0,07   0,12   0,09   0,09   0,49   0,65   warry are missing   0,07   0,07   0,12   0,09   0,49   0,53   warry are missing   0,07   0,07   0,06   0,08   0,78   0,79   0,39   0,39   0,30   warry are missing   0,07   0,06   0,06   0,06   0,09   0,49   0,53   warry are missing   0,07   0,06   0,06   0,06   0,09   0,07   0,09   0,49   0,53   warry are missing   0,07   0,06   0,06   0,06   0,09   0,07   0,09   0,09   warry are missing   0,07   0,06   0,06   0,06   0,09   0,07   0,09   0,09   warry are missing   0,07   0,06   0,06   0,06   0,09   0,07   0,09   0,09   warry are missin											0.30
hourly wage data missing											0.43
family had preexisting cowerage presisting cowerage data missing											0.86
preexisting coverage data missing share of family members reporting excellent health 0.45 0.52 0.44 0.55 0.47 0.49 0.14 0.06 0.45 share of family members reporting excellent health 0.41 0.36 0.44 0.32 0.40 0.39 0.49 0.17 0.43 share of family members reporting fairy foor health 0.00 0.00 0.00 0.01 0.00 0.00 0.45 0.29 0.32 share of family members reporting fairy foor health 0.00 0.00 0.00 0.01 0.00 0.00 0.45 0.29 0.32 share of family members reporting frequent pain 0.19 0.15 0.20 0.18 0.20 0.18 0.66 0.12 0.28 share of family members worried about health 0.25 0.20 0.26 0.22 0.26 0.33 0.24 0.10 0.34 share of family members worried about health 0.25 0.20 0.26 0.22 0.26 0.23 0.24 0.10 0.34 share of family members worried about health 0.25 0.20 0.20 0.26 0.22 0.26 0.23 0.24 0.10 0.45 0.29 0.32 share of family members worried about health 0.25 0.20 0.20 0.26 0.22 0.26 0.23 0.24 0.10 0.45 0.29 0.32 0.34 share of family members hospitalized last year 0.10 0.07 0.00 0.00 0.00 0.01 0.00 0.00											0.21 0.37
share of family members reporting excellent health	, , , , , , , , , , , , , , , , , , , ,										0.37
share of family members reporting very good health											0.07
share of family members reporting fair/poor health											0.12
share of family members reporting frequent pain											0.69
pain data missing share of family members worried about health 0.25 0.20 0.26 0.22 0.26 0.23 0.24 0.10 0.46 worry data missing 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.45 0.29 0.32 share of family members hospitalized last year 0.10 0.07 0.12 0.09 0.12 0.02 0.09 0.45 0.29 0.32 share of family members hospitalized last year 0.10 0.07 0.12 0.09 0.12 0.12 0.10 0.05 0.00 0.00 0.05 saverage number of med visits last year for adults 5.29 4.41 5.32 4.37 5.53 5.23 0.89 0.06 0.08 med visits for adults data missing 0.39 0.36 0.34 4.03 8.037 0.37 0.32 0.40 0.95 saverage number of med visits last year for kids 3.52 3.12 3.28 3.30 3.88 3.35 0.61 0.24 0.52 were distributed in the Finite Selection Model  Interpretation of the finite Selection Model  Bad private (non-work) insurance 10.25 0.23 0.23 0.19 0.22 0.25 0.26 0.26 0.65 0.69 0.47 private insurance data missing 0.08 0.06 0.06 0.06 0.06 0.06 0.09 0.25 0.40 0.08 employer-provided insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.79 0.40 0.33 0.36 employer-provided insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.43 0.29 0.11 had employer-provided insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.43 0.29 0.11 had public insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.43 0.29 0.11 had public insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.43 0.29 0.11 had public insurance data grew up in a city 0.06 0.05 0.05 0.03 0.04 0.04 0.06 0.94 0.21 0.26 share of family members that grew up in a city 0.06 0.05 0.05 0.03 0.04 0.04 0.06 0.94 0.07 0.09 0.17 hare of family members that grew up in a suburb 0.09 0.06 0.05 0.05 0.09 0.09 0.09 0.07 0.00 0.09 0.70 0.09 0.70 0.09 0.70 0.70											0.60
worry data missing		0.00	0.01	0.00	0.01	0.00	0.00	0.34	0.43	0.34	0.44
share of family members hospitalized last year  0.10 0.07 0.12 0.09 0.12 0.12 0.10 0.05 0.00 hospitalization data missing  0.01 0.01 0.01 0.01 0.00 0.01 0.02 0.09 0.49 0.65 average number of med visits last year for adults  5.29 4.41 5.32 4.37 5.53 5.23 0.39 0.06 0.08 med visits for adults tas missing  0.39 0.36 0.34 0.38 0.37 0.37 0.32 0.40 0.95 average number of med visits last year for kids  3.52 3.12 3.28 3.30 3.88 3.35 0.61 0.24 0.52 med visits for kids data missing  0.78 0.79 0.78 0.78 0.78 0.78 0.78 0.79 0.89 0.89 0.83 0.92	share of family members worried about health	0.25	0.20	0.26	0.22	0.26	0.23	0.24	0.10	0.46	0.23
hospitalization data missing	worry data missing	0.00	0.00	0.00	0.01	0.00	0.00	0.45	0.29	0.32	0.69
average number of med visits last year for adults											0.02
med visits for adults data missing											0.27
average number of med visits last year for kids  3.52  3.12  3.28  3.30  3.88  3.35  0.61  0.24  0.52  med visits for kids data missing  0.78  0.78  0.78  0.78  0.78  0.79  0.89  0.89  0.83  0.92  Dint F-test  Panel B: Variances Not Included in the Finite Selection Model  Had private (non-work) insurance data missing  0.07  0.06  0.06  0.06  0.06  0.06  0.06  0.06  0.09  0.25  0.40  0.08  had employer-provided insurance data missing  0.07  0.06  0.06  0.05  0.79  0.75  0.79  0.76  0.79  0.04  0.53  0.36  employer-provided insurance data missing  0.08  0.06  0.05  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.06  0.09  0.07  0.01  0.09  0.77  0.51  0.67  public insurance data missing  0.06  0.05  0.03  0.04  0.04  0.06  0.09  0.07  0.01  0.09  0.07  0.05  0.09  0.07  0.01  0.09  0.07  0.05  0.09  0.07  0.01  0.09  0.07  0.01  0.09  0.07  0.05  0.09  0.07  0.06  0.09											0.14
Med vists for kids data missing   0.78   0.78   0.78   0.78   0.78   0.79   0.89   0.83   0.92											0.53
Panel B: Variances Not Included in the Finite Selection Mode											0.44
Panel B: Variances Not Included in the Finite Selection Model  had private (non-work) insurance private insurance data missing 0.07 0.06 0.06 0.06 0.06 0.09 0.25 0.40 0.08  had employer-provided insurance 0.73 0.75 0.75 0.79 0.76 0.79 0.04 0.53 0.36  had employer-provided insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.43 0.29 0.11  had public insurance data missing 0.08 0.10 0.09 0.07 0.10 0.09 0.77 0.51 0.67  public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.94 0.21 0.26  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.94 0.21 0.26  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.94 0.21 0.26  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.99 0.77 0.51 0.67  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.94 0.21 0.26  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.99 0.77 0.51 0.67  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.99 0.77 0.51 0.67  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.99 0.77 0.51 0.67  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.99 0.77 0.51 0.67  had public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.99 0.77 0.51 0.67  had public insurance data missing 0.09 0.06 0.09 0.07 0.10 0.07 0.23 0.18 0.59 0.15  hare of family members that grew up in a city 0.09 0.06 0.09 0.06 0.09 0.07 0.09 0.77 0.33 0.88 0.89 0.88  hare of family members with a regular doctor 0.09 0.06 0.09 0.06 0.09 0.09 0.06 0.09 0.09	· ·	0.78	0.79	0.78	0.78	0.78	0.79	0.89	0.83	0.92	1.00
had private (non-work) insurance had private (non-work) insurance had private (non-work) insurance had private insurance data missing had employer-provided insurance had private insurance data missing had employer-provided insurance had private insurance data missing had employer-provided insurance had public insurance had had public insurance had had public insurance had											0.24
private insurance data missing 0.07 0.06 0.06 0.06 0.06 0.09 0.25 0.40 0.08 had employer-provided insurance 0.73 0.75 0.75 0.75 0.79 0.76 0.79 0.04 0.53 0.36 employer-provided insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.43 0.29 0.11 had public insurance data missing 0.08 0.10 0.09 0.07 0.10 0.09 0.77 0.51 0.67 o.06 o.09 0.43 0.29 0.11 0.67 o.06 o.09 0.43 0.29 0.11 0.67 o.06 o.09 0.06 0.09 0.07 0.10 0.09 0.77 0.51 0.67 o.06 o.09 0.06 0.09 0.06 0.09 0.07 0.10 0.09 0.77 0.51 0.67 o.06 o.09 0.06 0.09 0.07 0.10 0.09 0.77 0.51 0.67 o.06 o.09 0.06 0.09 0.06 0.09 0.07 0.10 0.09 0.77 0.51 0.67 o.05 o.05 o.05 o.05 o.05 0.05 0.07 0.09 0.07 0.10 0.09 0.77 0.51 0.67 o.05 o.05 o.05 o.05 o.05 o.05 0.05 0.09 0.09 0.09 0.70 0.18 0.59 0.15 o.05 o.05 o.05 o.05 o.05 o.05 o.05 o.0											
had employer-provided insurance											0.44 0.22
employer-provided insurance data missing 0.08 0.06 0.05 0.07 0.06 0.09 0.43 0.29 0.11 had public insurance 0.08 0.10 0.09 0.07 0.10 0.09 0.77 0.51 0.67 public insurance data missing 0.06 0.05 0.03 0.04 0.04 0.06 0.94 0.21 0.26 share of family members that grew up in a city 0.26 0.28 0.27 0.19 0.27 0.23 0.18 0.59 0.15 share of family members that grew up in a suburb 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.07 0.10 0.09 0.76 0.09 0.17 share of family members that grew up in a town 0.42 0.41 0.40 0.55 0.39 0.45 0.32 0.79 0.33 0.44 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.32 0.79 0.33 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45											0.22
had public insurance   0.08   0.10   0.09   0.07   0.10   0.09   0.77   0.51   0.67   0.09   0.07   0.09   0.07   0.09   0.07   0.09   0.07   0.09   0.07   0.09   0.07   0.09   0.07   0.09   0.06   0.09   0.076   0.09   0.17   0.00											0.43
public insurance data missing											0.03
share of family members that grew up in a city  0.26  0.28  0.27  0.19  0.27  0.23  0.18  0.59  0.15  share of family members that grew up in a suburb  0.09  0.06  0.09  0.06  0.09  0.06  0.09  0.06  0.09  0.06  0.09  0.06  0.09  0.07  0.09  0.07  0.09  0.07  0.09  0.07  0.09  0.07  0.09  0.07  0.09  0.09  0.09  0.00											0.08
share of family members that grew up in a suburb 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.07 0.09 0.17 share of family members that grew up in a town 0.42 0.41 0.40 0.55 0.39 0.45 0.32 0.79 0.33 background info missing 0.01 0.01 0.01 0.00 0.00 0.02 0.02 0.02											0.09
background info missing 0.01 0.01 0.00 0.00 0.00 0.02 0.02 0.02				0.09	0.06	0.09	0.09	0.76	0.09	0.17	0.44
share of family members with a regular doctor 0.96 0.95 0.95 0.99 0.94 0.98 0.36 0.36 0.30 0.30 0.30 0.30 0.30 0.30	share of family members that grew up in a town	0.42	0.41	0.40	0.55	0.39	0.45	0.32	0.79	0.33	0.03
doctor data missing 0.32 0.32 0.32 0.29 0.31 0.32 0.88 0.80 0.88 share of family members with any special dental care last year 0.61 0.55 0.61 0.19 0.21 0.15 0.96 0.88 0.80 0.88 0.80 0.88 share of family members with any special dental care last year 0.61 0.55 0.63 0.68 0.57 0.61 0.87 0.61 0.88 0.72 0.95 0.88 0.72 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95	background info missing	0.01	0.01	0.00	0.00	0.02	0.02	0.02	0.54	0.13	0.04
share of family members that had a medical exam in previous year 0.51 0.53 0.50 0.61 0.49 0.53 0.58 0.72 0.95 medical exam data missing 0.01 0.03 0.02 0.00 0.01 0.02 0.10 0.15 0.52 doubted learn medical expenditures 4.13 3.89 4.24 4.23 4.10 4.24 0.39 0.17 0.06 medical expenditures data missing 0.20 0.22 0.18 0.12 0.22 0.21 0.69 0.56 0.79 share of family members with any routine dental care last year 0.73 0.68 0.69 0.81 0.74 0.70 0.31 0.27 0.76 doubted and missing 0.15 0.16 0.16 0.16 0.19 0.21 0.15 0.96 0.86 0.83 share of family members with any special dental care last year 0.61 0.55 0.63 0.68 0.57 0.61 0.87 0.19 0.17	share of family members with a regular doctor	0.96									0.33
medical exam data missing     0.01     0.03     0.02     0.00     0.01     0.02     0.10     0.15     0.52       log prior year medical expenditures     4.13     3.89     4.24     4.23     4.10     4.24     0.39     0.17     0.06       medical expenditures data missing     0.20     0.22     0.18     0.12     0.22     0.21     0.69     0.51     0.69       share of family members with any routine dental care last year     0.73     0.68     0.69     0.81     0.74     0.70     0.31     0.27     0.76       share of family members with any special dental care last year     0.15     0.16     0.19     0.21     0.15     0.96     0.86     0.83											0.01
log prior year medical expenditures 4.13 3.89 4.24 4.23 4.10 4.24 0.39 0.17 0.06 medical expenditures data missing 0.20 0.22 0.18 0.12 0.22 0.21 0.69 0.56 0.79 share of family members with any routine dental care last year 0.73 0.68 0.69 0.81 0.74 0.70 0.31 0.27 0.76 routine dental care data missing 0.15 0.16 0.16 0.19 0.21 0.15 0.96 0.86 0.83 share of family members with any special dental care last year 0.61 0.55 0.63 0.68 0.57 0.61 0.87 0.19 0.17											0.19
medical expenditures data missing 0.20 0.22 0.18 0.12 0.22 0.21 0.69 0.56 0.79 1 0.56 0.79											0.12
share of family members with any routine dental care last year 0.73 0.68 0.69 0.81 0.74 0.70 0.31 0.27 0.76 routine dental care data missing 0.15 0.16 0.16 0.19 0.21 0.15 0.96 0.86 0.83 share of family members with any special dental care last year 0.61 0.55 0.63 0.68 0.57 0.61 0.87 0.19 0.17											0.47
routine dental care data missing 0.15 0.16 0.16 0.19 0.21 0.15 0.96 0.86 0.83 of share of family members with any special dental care last year 0.61 0.55 0.63 0.68 0.57 0.61 0.87 0.19 0.17											0.24 0.19
share of family members wth any special dental care last year $0.61$ $0.55$ $0.63$ $0.68$ $0.57$ $0.61$ $0.87$ $0.19$ $0.17$	·										
											0.21 0.27
	special dental care data missing	0.61	0.55	0.63	0.68	0.57	0.15	0.87	0.19	0.17	0.27
·		0.13	0.10	0.10	0.13	0.21	0.13	0.50	0.00	0.03	0.02
onit F-test  N (families assigned) 564 170 209 77 495 372		F.C.4	170	200	77	405	272				0.02

Table Notes: The dependent variable is given in the left hand column. Regressions are run at the family level and include site by contact month fixed effects (see Table 1 for definition and discussion of "contact month"). Coefficients are plan averages adjusted for the site by contact month fixed effects (i.e. coefficients on plan dummies from regressions without a constant). Site by contact month dummy variables are demeaned so that the coefficients reflect estimates for the "average" site-month mix. Data on refusals at the Dayton site were lost, so regressions exclude Dayton observations (1,137 (20%) of all enrollees). Variables are parameterized as in the Finite Selection Model; for details, see Newhouse et al. (1993, Appendix B).

Table A4
Covariate Balance at Completion

	Free Care	25% Coinc	Mixed Coins	50% Coins	Individual	95% Coins	p-values			
	riee Cale	25% COITIS	Wilked Collis	30% Collis	Deductible	93% Collis	FC vs. 95%	FC vs. 25%	25% vs. 95%	all equa
Panel A: Pre-Experiment Utilization Variables										
nospitalized in year before expt	0.11	0.10	0.10	0.08	0.11	0.09	0.42	0.73	0.73	0.73
nospitalization data missing	0.03	0.02	0.01	0.02	0.02	0.02	0.08	0.03	0.56	0.15
nad a regular doctor	0.92	0.93	0.92	0.93	0.91	0.91	0.61	0.83	0.55	0.92
doctor data missing	0.22	0.22	0.23	0.21	0.22	0.21	0.13	0.90	0.43	0.00
nad a medical exam in year before expt	0.50	0.53	0.45	0.53	0.43	0.49	0.54	0.38	0.20	0.02
medical exam data missing	0.04	0.02	0.04	0.02	0.03	0.04	0.94	0.22	0.36	0.57
num doc visits in year before expt	4.98	4.35	4.82	3.96	5.15	4.45	0.09	0.10	0.77	0.03
doc visits data missing	0.19	0.17	0.16	0.16	0.19	0.19	0.91	0.31	0.39	0.59
log medcl expenditures in year before expt	3.45	3.47	3.41	3.34	3.46	3.32	0.24	0.88	0.26	0.73
medical expenditures data missing	0.38	0.39	0.33	0.32	0.38	0.39	0.48	0.76	0.81	0.17
any routine dental visits in year before expt	0.73	0.70	0.71	0.78	0.71	0.71	0.71	0.53	0.76	0.72
routine dental visits data missing	0.39	0.33	0.38	0.37	0.41	0.36	0.33	0.10	0.41	0.26
any nonroutine dental visits in year before expt	0.54	0.50	0.58	0.59	0.53	0.54	1.00	0.29	0.33	0.49
nonroutine dental visits data missing	0.39	0.33	0.38	0.37	0.41	0.36	0.33	0.10	0.41	0.26
oint F-test										< 0.000
Panel B: Non-Utilization-Related Baseline Covariate	<del></del>									
female	0.51	0.51	0.53	0.52	0.54	0.52	0.49	1.00	0.58	0.58
age 6 to 17	0.29	0.27	0.33	0.28	0.25	0.30	0.72	0.51	0.38	0.04
age 18 to 44	0.42	0.45	0.44	0.44	0.46	0.43	0.39	0.07	0.33	0.13
age 45 +	0.17	0.13	0.12	0.15	0.16	0.15	0.42	0.09	0.35	0.21
white	0.85	0.82	0.85	0.87	0.85	0.81	0.05	0.29	0.57	0.24
race data missing	0.47	0.45	0.46	0.45	0.42	0.46	0.55	0.24	0.56	0.08
ns graduate	0.21	0.23	0.24	0.22	0.25	0.21	0.82	0.40	0.56	0.13
education beyond hs	0.18	0.22	0.18	0.19	0.20	0.20	0.54	0.16	0.40	0.74
education data missing	0.01	0.01	0.00	0.01	0.01	0.01	0.63	0.46	0.31	0.08
grew up in a city	0.27	0.26	0.28	0.20	0.28	0.27	0.84	0.80	0.94	0.25
grew up in a suburb	0.11	0.10	0.10	0.12	0.11	0.11	0.79	0.52	0.69	0.93
grew up in a town	0.38	0.38	0.37	0.47	0.37	0.37	0.58	0.90	0.76	0.10
background data missing	0.40	0.40	0.42	0.39	0.37	0.41	0.78	0.97	0.85	0.37
og baseline family income	8.98	9.13	8.99	9.16	9.05	9.02	0.70	0.07	0.22	0.25
log baseline family income squared	82.48	84.36	82.36	84.37	83.26	82.63	0.90	0.09	0.17	0.42
family income data missing	0.05	0.07	0.03	0.03	0.06	0.07	0.54	0.65	1.00	0.42
anyone in family working at baseline	0.89	0.91	0.84	0.92	0.88	0.88	0.81	0.33	0.30	0.32
work data missing	0.01	0.01	0.01	0.00	0.01	0.00	0.02	0.29	0.77	0.05
insured at baseline	0.86	0.88	0.86	0.89	0.89	0.89	0.42	0.49	0.99	0.90
insurance data missing	0.06	0.03	0.03	0.03	0.04	0.05	0.34	0.02	0.14	0.05
employer-provided insurance	0.59	0.58	0.58	0.64	0.62	0.59	0.92	0.72	0.79	0.90
employer-provided insurance data missing	0.27	0.24	0.24	0.25	0.25	0.27	0.92	0.01	0.03	0.09
private insurance	0.14	0.14	0.16	0.09	0.15	0.16	0.44	0.92	0.66	0.70
private insurance data missing	0.27	0.24	0.24	0.24	0.26	0.27	0.86	0.01	0.04	0.02
oublic insurance	0.09 0.05	0.08 0.03	0.07 0.03	0.08 0.03	0.07 0.04	0.07 0.05	0.46	0.59 0.02	0.88 0.13	0.93
oublic insurance data missing	0.05	0.03	0.03	0.03	0.04	0.05	0.43 0.85	0.02	0.13 0.51	0.08
excellent health at baseline good health at baseline	0.51	0.53	0.50	0.54	0.50	0.50	0.85	0.58	0.51	0.95
	0.38	0.37	0.42	0.35	0.40	0.40	0.53	0.66	0.38	0.66
nealth status data missing	0.05	0.03	0.03	0.04	0.04	0.05	0.42	0.04	0.19	0.17
experienced pain at baseline	0.16	0.16	0.17		0.16	0.17			0.53	0.95
pain data missing worried about health at baseline	0.05	0.04	0.03	0.04 0.18	0.04	0.05	0.41 0.31	0.17 0.52	0.46	0.36
vorried about nealth at baseline vorry data missing	0.21	0.19	0.23	0.18	0.21	0.19	0.31	0.52	0.87	0.56
oint F-test	0.03	0.05	0.03	0.0 .	0.0 .	0.05	0.12	0.0 .	0.13	< 0.000
oint F-test (both panels)										< 0.000
\(\(\text{(number of individuals completing)}\)	1,799	596	450	350	1,119	958				

Table Notes: The dependent variable is given in the left hand column. Regressions include all individuals who enrolled in the experiment and did not attrit. Coefficients are plan averages adjusted for the site by start month fixed effects (i.e. coefficients on plan dummies from regressions without a constant). Covariates are measured at baseline. Because assignment to plans was random only conditional on site and start month (Newhouse et al., 1993), all regressions include site by start month dummy variables. Site by start month dummy variables are demeaned so that the coefficients reflect estimates for the "average" sitemonth mix. Education measures are available only for individuals age 18 or older. Log income and log medical expenditures are defined as log(variable + 1) to accommodate values of zero.

**Table A5 Sensitivity of Results to Extreme Worst-Case Bounds** 

		Total Spending		Inpatien	t Spending	<u> </u>	Outpatient Spendi		
	Share with		OLS	Share with		Share with	OLS		
	Any	OLS (Levels)	(Logs)	Any	OLS (Levels)	Any	OLS (Levels)	(Logs)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Panel A: 95% coinsurance plan vs. free care (N = 10,564)									
(1) Baseline specification (from Table 2)	-0.170	-845	-1.381	-0.024	-217	-0.171	-629	-1.361	
,	(0.015)	(119)	(0.096)	(0.007)	(91)	(0.016)	(50)	(0.093)	
(2) Extreme bounds + adjustment for	0.022	939	0.084	NA	NA	0.021	372	-0.020	
` ' underreporting	(0.018)	(159)	(0.129)			(0.018)	(81)	(0.121)	
Panel B: 25% coinsurance plan vs. free care	(N = 9,201)								
(1) Baseline specification (from Table 2)	-0.079	-648	-0.747	-0.022	-229	-0.078	-420	-0.719	
(1) Buseline specification (from Tuble 2)	(0.015)	(152)	(0.095)	(0.009)	(116)	(0.015)	(62)	(0.093)	
(2) Extreme bounds + adjustment for	0.03	524	0.20	NA	NA	0.03	219	0.14	
underreporting	(0.017)	(177)	(0.117)	IVA	N/A	(0.02)	(83)	(0.11)	
Panel C: 95% coinsurance plan vs. 25% coin	surance plan	(N = 6,085)							
(1) Baseline specification (from Table 2)	-0.091	-197	-0.633	-0.002	12	-0.093	-209	-0.641	
(1) Buseline specification (from Tuble 2)	(0.020)	(160)	(0.120)	(0.009)	(122)	(0.020)	(1)	(0.117)	
(2) Extreme bounds + adjustment for	0.167	1745	1.217	NA	NA	0.165	893	1.073	
underreporting	(0.026)	(186)	(0.168)			(0.027)	(91)	(0.159)	

Table Notes: Table reports coefficients on plan dummies; the ommitted category is the free care plan. The dependent variable is given in the column headings. Standard errors are in parentheses below the coefficients. Standard errors are clustered on familiy. Because assignment to plans was random only conditional on site and start month (Newhouse et al., 1993), all regressions include site by start month dummy variables, as well as year fixed effects to adjust for inflation. Log variables are defined as log(var + 1) to accommodate zero values. Level variables are adjusted for inflation using the CPI-U (and are reported in 2011 dollars). "Extreme bounds" are calculated following Manski (1990). Specifically, for each year in which an individual should have been but was not present in the experiment (due to refusal or attrition), we impute the values that would minimize the treatment effect. For binary outcomes (measures of whether the individual has any spending), we impute zeros for individuals absent from the lower cost sharing plans and ones for individuals absent from the higher cost sharing plans. For continuous outcomes (e.g., total spending), we impute zeros for individuals absent from the lower cost sharing plans and the 95th percentile of the sample distribution for individuals not participating in the higher cost sharing plans. While it is theoretically possible that non-participants in the higher cost-sharing plans could have had even higher (average) spending than the 95th percentile, it seems extremely unlikely, and so we view this approach as providing worst case bounds for the continuous as well as the binary outcomes. Adjustment for under-reporting is described in text.