Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Clark CR, Ommerborn MJ, Coull BA, Pham DQ, Haas J. State Medicaid eligibility and care delayed because of cost. N Engl J Med 2013;368:1263-5. DOI: 10.1056/NEJMc1214874

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Suppremental Table 1. Ouus of Delayed Cale Due to Cost and	Delayed Care Due to Cost among Non-Elderry Adults in the United States ⁺ , 2010 Odde Ratios [†] (05% CD)				
	Delaved Care				
Individual-level covariates	Delayed Care				
Age					
18-26	1.81 (1.66-1.97)				
27-34	1.90 (1.79-2.03)				
35-44	1.72 (1.63-1.82)				
45-54	1.44 (1.37-1.51)				
55-64	1.00				
Sex					
Male	1.00				
Female	1.46 (1.40-1.53)				
Race [‡]					
White	1.00				
Black	1.04 (0.97-1.11)				
Asian/Pacific Islander	0.91 (0.79-1.05)				
Hispanic	1.19 (1.11-1.28)				
Other	1.33 (1.02-1.74)				
Income					
< \$25.000	1.00				
\$25 - \$49,999	0.57 (0.54-0.61)				
\$50 - \$74,999	0.28 (0.26-0.30)				
> \$75,000	0.12 (0.11-0.13)				
Employment status [§]					
Employed	1.00				
Unemployed > 1 year	2.02 (1.85-2.21)				
Unemployed < 1 year	1.71 (1.56-1.86)				
Retired	0.51 (0.46-0.56)				
Other	0.88 (0.83-0.93)				
Cardiovascular disease					
No	1.00				
Yes	1.17 (1.08-1.27)				
Diabetes					
No	1.00				
Prediabetic or gestational diabetic	1.10 (0.97-1.23)				
Yes	0.91 (0.85-0.98)				
Self Rated Health					
Excellent	1.00				
Very good	1.38 (1.28-1.49)				
Good	2.20 (2.04-2.37)				
Fair	3.71 (3.41-4.04)				
Poor	4.52 (4.06-5.02)				
Local-area covariates					
Concentration of					
primary care doctors					
44-66 per 100,000	1.00				
67-74 per 100,000	0.90 (0.85-0.95)				
75-117 per 100,000	0.93 (0.87-1.00)				
County-level wage	1 12 (0 88-1 44)				
compensation index ¹	1.12 (0.00-1.14)				
State-level covariates					
Unemployment rate **	1.05 (1.03-1.06)				
Medicaid eligibility ^{††}					
133-215%	1.00				
67-127%	1.16 (1.09-1.24)				
46-64%	1.39 (1.29-1.50)				
17-44%	1.42 (1.31-1.54)				

* Data from Centers for Disease and Control 2010 Behavioral Risk Factor Surveillance Survey.

[†] Multivariable generalized linear models estimated with scaled weights to account for complex survey design and multilevel data structure using the rlogist function in SUDAAN® (RTI, North Carolina).

[‡] Race/ethnicity includes Hispanics of any race in the Hispanic category.

- [§] Individual-level employed category includes both individuals employed with wages and self-employed individuals. Other category includes students, homemakers and individuals who are unable to work.
- ^{II} Concentration of primary care doctors per 100,000 population by hospital referral region from 2006. Data from Dartmouth Atlas of Healthcare.
- [¶]County-level wage compensation index incorporates wage data from Bureau of Labor Statistics and the Census Bureau and data on benefits (such as health insurance and pensions) and mandatory payroll taxes from hospital, skilled nursing facility (SNF), and home health provider cost reports submitted to Centers for Medicare & Medicaid Services. Data from Medicare Payment Advisory Commission, 2007.
- ** State-level measure of total unemployed, as a percent of the civilian labor force, 2010. Data from Bureau of Labor Statistics.
- ^{††} Medicaid eligibility refers to state-level income thresholds for Medicaid or Medicaid look-alike programs for working parents as a percent of the Federal Poverty Level as of January 2011. Data from Kaiser Commission on Medicaid and the Uninsured.

Supplemental Table 2. Compar	rison of Counties	with High and	Low Delayed Ca	re Due to Cost *					
	Low Delayed Care Due to Cost		High Delayed Care Due to Cost						
	Norfolk,	Davis,	Johnson,	Levy,	Hidalgo,	El Paso,			
	MA	UT	KS	FL	ТХ	ТХ			
	N=541	N=662	N=1010	N=363	N=396	N=565			
Prevalence of Delayed Care	6.5	11.0	7.6	26.3	40.6	28.3			
	Demographics								
Median age (SE)	42.5 (0.47)	35.5 (1.07)	40.8 (0.84)	38.9 (2.16)	37.4 (0.78)	39.6 (1.06)			
Age ^b									
18-26	3.9	21.2	16.0	22.7	21.7	15.3			
27-34	17.8	24.8	18.4	12.7	11.7	16.4			
35-44	35.5	20.2	23.2	20.5	36.4	30.1			
45 - 54	24.7	19.2	24.0	22.9	16.2	22.1			
55-64	18.1	14.6	18.4	21.2	13.9	16.2			
Race									
White	82.7	91.7	90.6	78.2	6.9	14.0			
Black	4.3	0.5	3.0	12.6	0.8	4.3			
Asian/Pacific	5.9	1.8	2.8	0.7	1.3	1.4			
Islander									
Hispanic	4.4	4.9	3.1	8.6	91.0	80.3			
Other	2.7	1.1	0.4		0.1				
Income category			_						
< \$25,000	8.1	14.4	5.9	41.7	51.7	41.2			
\$25 - \$49,999	12.2	18.4	13.0	32.9	22.1	29.0			
\$50 - \$74,999	15.4	19.8	15.1	10.3	6.5	13.2			
≥ \$75,000	64.3	47.5	66.0	15.2	19.8	16.6			
~ - +			Health	Status					
Cardiovascular disease									
No	97.3	96.7	98.0	90.3	93.4	94.7			
Yes	2.7	3.3	2.0	9.7	6.6	5.3			
Diabetes	02.5	02.4	02.2	06.5	04.0	00.5			
No	93.5	93.4	93.2	86.5	84.8	89.5			
Prediabetic or	1.8	1.6	1.6	3.5	2.8	1.5			
gestational diabetic	4.7	5.0	C 1	10.0	10.4	0.0			
Yes	4./	5.0	5.1	10.0	12.4	9.0			
T T 1 1 1			Economic	e Climate					
Unemployment rate *	7.2	7.2	(5	12.0	12.1	0.0			
By county	/.3	/.3	6.5	12.0	12.1	9.8			
By state	8.3	8.0	/.2	11.3	8.2	8.2			
		Calt Lalza	Local Health I	Infrastructure					
Largest hospital referral	Boston		Kansas City	Gainesville	McAllen	El Paso			
region (HRR) §	(MA)	(UT)	(MO)	(FL)	(TX)	(TX)			
Drimary agra dastars por		(01)							
100 000 by URP	98.5	62.3	67.3	74.0	45.1	47.2			
100,000 UY FIKK			Uaalth Ca	ro A ocoss					
	Approved								
Year of state Medicaid	1907	2002	August 20	2006	2011	2011			
expansion	177/	2002	2012 20,	2000	2011	2011			

* Data presented as percent (%) unless otherwise noted in category description. County sample sizes (Ns) are unweighted and total population estimates are weighted data accounting for complex survey design. Percentages may not add completely to 100 percent.

[†] Data from 2010 Behavioral Risk Factor Surveillance Survey.

- [‡] Data from Bureau of Labor Statistics 2010.
- [§] Data from Dartmouth Atlas 2006.

^{II} Year refers to effective, implementation or approval date of Section 1115 demonstration waivers to expand insurance coverage of low income populations. Data from Centers for Medicaid & Medicare Services.