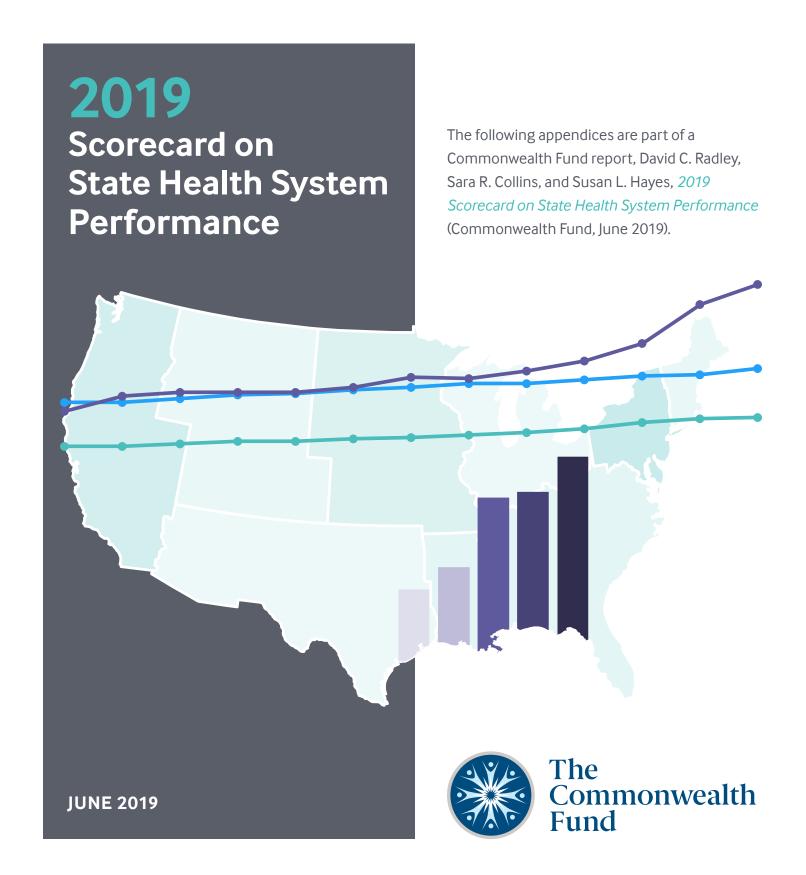
APPENDICES



APPENDIX A1. State Scorecard Data Years and Databases

	Indicator	Past year	Current year	Database
	Access and Affordability			
1	Uninsured adults	2013	2017	American Community Survey, Public Use Microdata Sample (ACS PUMS)
2	Uninsured children	2013	2017	American Community Survey, Public Use Microdata Sample (ACS PUMS)
3	Adults without a usual source of care	2013	2017	Behavioral Risk Factor Surveillance System (BRFSS)
4	Adults who went without care because of cost	2013	2017	Behavioral Risk Factor Surveillance System (BRFSS)
5	High out-of-pocket medical spending	2013-14	2016-17	Current Population Survey Annual Social and Economic Supplement (CPS ASEC)
6	Employee insurance costs as a share of median income	2013	2017	Medical Expenditure Panel Survey Insurance Component (MEPS-IC)
7	Adults without a dental visit	2012	2016	Behavioral Risk Factor Surveillance System (BRFSS)
,		2012	2010	beliaviolal risk ractor Surveillance System (bkr55)
	Prevention and Treatment			
8	Adults without all recommended cancer screenings	2012	2016	Behavioral Risk Factor Surveillance System (BRFSS)
9	Adults without all recommended vaccines	2013	2017	Behavioral Risk Factor Surveillance System (BRFSS)
10	Diabetic adults without an annual hemoglobin A1 c test	2015	2016	Truven MarketScan
11	Elderly patients who received a high-risk prescription drug	-	2015	Medicare Part D Claims
12	Children without a medical home	2016	2017	National Survey of Children's Health (NSCH)
13	Children without a medical and dental preventive care visit	2016	2017	National Survey of Children's Health (NSCH)
14	Children who did not receive needed mental health care	2016	2017	National Survey of Children's Health (NSCH)
15	Children without all recommended vaccines	2012	2016	National Immunization Survey (NIS)
16	Hospital 30-day mortality	07/2010 - 06/2013	07/2014 - 06/2017	CMS Hospital Compare
17	Central line—associated blood stream infection (CLABSI)	2015	2016	CDC Healthcare-Associated Infections (HAI) Progress Report
18	Hospitals with lower-than-average patient experience ratings		2017	Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS), via CMS Hospital Compare
19	Home health patients without improved mobility	2013	2017	Outcome and Assessment Information Set (OASIS), via CMS home Health Compare
20	Nursing home residents with an antipsychotic medication	2013	2017	Minimum Dataset (MDS), via CMS Nursing Home Compare
21	Adults with any mental illness reporting unmet need	2009-11	2014-16	National Survey on Drug Use and Health (NSDUH), via State of Mental Health in America
22	Adults with any mental illness who did not receive treatment	2009-11	2014-16	National Survey on Drug Use and Health (NSDUH), via State of Mental Health in America
	Avoidable Hospital Use and Cost			
23	Hospital admissions for pediatric asthma	2012	2015	Healthcare Cost and Utilization Project (HCUP), via AHRQ National Healthcare Quality Report
	Potentially avoidable emergency department visits			
24	Ages 18–64, per 1,000 employer-insured enrollees	2015	2016	Truven MarketScan
25	Age 65 and older, per 1,000 Medicare beneficiaries	2012	2015	Chronic Conditions Data Warehouse (CCW), via CMS Geographic Variation Public Use File
	Admissions for ambulatory care—sensitive conditions			
26	Ages 18–64, per 1,000 employer-insured enrollees	2015	2016	Truven MarketScan
27	Ages 65 and older, per 1,000 Medicare beneficiaries	2013	2017	Chronic Conditions Data Warehouse (CCW), via CMS Geographic Variation Public Use File
	30-day hospital readmissions			
28	Ages 18–64, per 1,000 employer-insured enrollees	2015	2016	Truven MarketScan
29	Age 65 and older, per 1,000 Medicare beneficiaries	2013	2017	Chronic Conditions Data Warehouse (CCW), via CMS Geographic Variation Public Use File
	-			
30	Skilled nursing facility patients with a hospital readmission	2012	2016	Residential History File
31	Nursing home residents with a hospital admission	2012	2016	Residential History File
32	Home health patients with a hospital admission	2013	2017	Medicare Claims, via CMS Home Health Compare
33	Adults with inappropriate lower-back imaging	2015	2016	Truven MarketScan
34	Employer-sponsored insurance spending per enrollee	2013	2016	Truven MarketScan
35	Medicare spending per beneficiary	2013	2017	Chronic Conditions Data Warehouse (CCW), via CMS Geographic Variation Public Use File
	Healthy Lives			
36	Mortality amenable to health care	2010-11	2014-15	CDC National Vital Statistics System (NVSS): Restricted Use Mortality Microdata
37	Breast cancer deaths	2013	2017	CDC National Vital Statistics System (NVSS): WONDER
38	Colorectal cancer deaths	2013	2017	CDC National Vital Statistics System (NVSS): WONDER
39	Suicide deaths	2013	2017	CDC National Vital Statistics System (NVSS): WONDER
40	Alcohol deaths	2013	2017	CDC National Vital Statistics System (NVSS); WONDER
41	Drug poisoning deaths	2013	2017	CDC National Vital Statistics System (NVSS); WONDER
42	Infant mortality	2012	2016	CDC National Vital Statistics System (NVSS): WONDER
43	Adults who report fair or poor health	2013	2017	Behavioral Risk Factor Surveillance System (BRFSS)
44	Adults who smoke	2013	2017	Behavioral Risk Factor Surveillance System (BRFSS)
45	Adults who are obese	2013	2017	Behavioral Risk Factor Surveillance System (BRFSS)
46	Children who are overweight or obese	2016	2017	National Survey of Children's Health (NSCH)
47	Adults who have lost six or more teeth	2012	2016	Behavioral Risk Factor Surveillance System (BRFSS)

Note: (--) Previous data not available or its definition is not comparable over time.

APPENDIX A2. List of Indicators in the Scorecard on State Health System Performance

		Data years represented		U.S. avera	ge rate	Range of state	e performance
	Indicator	Baseline	2019 Scorecard	Baseline	2019 Scorecard	Danalina	2010 Coorcoord
	Access and Affordability	baseline	2019 Scorecard	baseline	2019 Scorecard	Baseline	2019 Scorecard
1	Uninsured adults	2013	2017	20%	12%	5-30	4 - 24
2	Uninsured children	2013	2017	8%	5%	2-14	1-11
3	Adults without a usual source of care	2013	2017	24%	23%	12 - 35	12 - 34
4	Adults who went without care because of cost	2013	2017	16%	14%	7 - 22	8 - 20
5	High out-of-pocket medical spending	2013-14	2016-17	11%	10%	7 - 17	5 - 15
6	Employee insurance costs as a share of median income	2013	2017	6.5%	6.9%	4.4 - 9	4.8 - 10.2
7	Adults without a dental visit	2012	2016	15%	16%	10 - 20	10 - 20
	Prevention and Treatment						
8	Adults without all recommended cancer screenings	2012	2016	31%	32%	21 - 40	24 - 40
9	Adults without all recommended vaccines	2013	2017	64%	62%	53 - 72	54 - 69
10	Diabetic adults without an annual hemoglobin A1c test	2015	2016	16.9%	12.0%	11 - 23.7	5.6 - 22.5
11	Elderly patients who received a high-risk prescription drug		2015	-	11%	-	5 - 16
12	Children without a medical home	2016	2017	51%	51%	40 - 66	39 - 64
13	Children without a medical and dental preventive care visit	2016	2017	32%	32%	20 - 41	18 - 43
14	Children who did not receive needed mental health care	2016	2017	18%	22%	5-34	4 - 48
15	Children without all recommended vaccines	2012	2016	32%	29%	20 - 40	15 - 42
16	Hospital 30-day mortality	2010-13	2014-17	13.2%	13.9%	12.2 - 14.1	12.8 - 15.1
17 18	Central line—associated blood stream infection (CLABSI) Hospitals with lower-than-average patient experience ratings	2015	2016 2017	0.99	0.89 45.0%	0.32 - 1.43	0.36 - 1.14 9 - 100
19	Home health patients without improved mobility	2013	2017	39.0%	25.0%	34 - 51	20 - 35
20	Nursing home residents with an antipsychotic medication	2013	2017	21.0%	15.0%	11 - 27	7 - 20
21	Adults with any mental illness reporting unmet need	2009-11	2014-16	21.0%	21.0%	14 - 30	16 - 26
22	Adults with any mental illness who did not receive treatment	2009-11	2014-16	59.0%	56.0%	45 - 73	42 - 68
	Avoidable Hospital Use and Cost						
23	Hospital admissions for pediatric asthma	2012	2015	142.9	87.2	27.6 - 231.5	21.7 - 183.4
23	Potentially avoidable emergency department visits	2012	2013	142.9	07.2	27.0-231.3	21.7 - 103.4
24	Ages 18–64, per 1,000 employer-insured enrollees	2015	2016	159.0	142.2	130 - 203.4	115.9 - 186.8
25	Age 65 and older, per 1,000 Medicare beneficiaries	2013	2015	187.8	196.9	130.8 - 247.9	138.3 - 250.8
	Admissions for ambulatory care—sensitive conditions		20.00			10000	
26	Ages 18–64, per 1,000 employer-insured enrollees	2015	2016	4.6	5.3	3.3 - 6.1	5.6 - 7.9
27	Ages 65 and older, per 1,000 Medicare beneficiaries	2013	2017	47.7	43.9	24.3 - 72.4	21.7 - 60.1
	30-day hospital readmissions						
28	Ages 18–64, per 1,000 employer-insured enrollees	2015	2016	2.9	3.1	1.2 - 5.5	2.4 - 3.6
29	Age 65 and older, per 1,000 Medicare beneficiaries	2013	2017	43.5	41.0	21.4 - 57.2	19.7 - 51.5
30	Skilled nursing facility patients with a hospital readmission	2012	2016	20%	19%	13 - 26	11 - 24
31	Nursing home residents with a hospital admission	2012	2016	17%	15%	7 - 30	5 - 28
32	Home health patients with a hospital admission	2013	2017	16%	16%	14 - 18	14 - 18
33	Adults with inappropriate lower-back imaging	2015	2016	71.1%	68.9%	59.2 - 83.7	57.7 - 76.5
34	Employer-sponsored insurance spending per enrollee	2013	2016	\$4,697	\$4,882	\$3,117 - \$7,186	\$3,255 - \$8,042
35	Medicare spending per beneficiary	2013	2017	\$9,081	\$9,534	\$5,674 - \$10,991	\$6,195 - \$11,257
	Healthy Lives						
36	Mortality amenable to health care	2010-11	2014-15	85.3	84.3	57.1 - 133.2	54.7 - 142.4
37	Breast cancer deaths	2013	2017	20.8	19.9	15.5 - 29.8	15.6 - 25.5
38	Colorectal cancer deaths	2013	2017	14.6	12.9	10.9 - 19.8	9.3 - 16.4
39	Suicide deaths	2013	2017	12.6	14.0	5.7 - 23.7	6.6 - 28.9
40	Alcohol deaths	2013	2017	8.2	9.6	4.5 - 22.7	5.5 - 30.6
41	Drug poisoning deaths	2013	2017	13.8	21.7	2.8 - 32.2	8.1 - 57.8
42	Infant mortality	2012	2016	6.0	5.9	4.2 - 8.9	3.5 - 9
43	Adults who report fair or poor health	2013	2017	16%	17%	10 - 22	9 - 24
44	Adults who smoke	2013	2017	18%	16%	10 - 27	9 - 26
45	Adults who are obese	2013	2017	29%	31%	22 - 37	23 - 40
46	Children who are overweight or obese	2016	2017	31%	31%	19 - 38	21 - 41
47	Adults who have lost six or more teeth	2012	2016	10%	10%	6 - 23	6 - 21

Notes: (--) Previous data are not shown because of changes in the indicators' definitions or data were not available. * Denotes a change of at least 0.5 standard deviations. ** Denotes a change of 1.0 standard deviation or more.

APPENDIX A3. National and Regional Performance Benchmarks

		National		Gre	eat Lakes	Mic	I-Atlantic	New E	England
	Indicator	Rate	Best state(s) ^a	Rate	Best state(s) ^a	Rate	Best state(s) ^a	Rate	Best state(s) ^a
	Access and Affordability	Nate	Dest state(s)	Nate	Desi state(s)	Nate	Dest state(s)	Nate	State(s)
1	Uninsured adults	4%	MA	7	MI, WI	5	DC	4	MA
2	Uninsured children	1%	MA	3	IL, MI	3	DE, NY	1	MA
3	Adults without a usual source of care	12%	RI	15	MI	15	PA	12	RI
4	Adults who went without care because of cost	8%	HI, IA, ND	11	MI, OH, WI	10	MD, PA	9	MA, VT
5	High out-of-pocket medical spending	5%	DC	8	WI	5	DC	6	RI
6	Employee insurance costs as a share of median income	4.8%	MI	4.8	MI	5.6	DC	5.4	MA
7	Adults without a dental visit	10%	СТ	12	WI	13	NJ	10	CT
	Prevention and Treatment								
8	Adults without all recommended cancer screenings	24%	CT	28	WI	25	DC	24	СТ
9	Adults without all recommended vaccines	54%	SD	61	ОН	55	MD	55	RI
10	Diabetic adults without an annual hemoglobin A1c test	5.6	MN	10.1	MI	10.8	MD	9.2	ME
11	Elderly patients who received a high-risk prescription drug	5%	HI	8	WI	8	NY, PA	7	MA
12	Children without a medical home	39%	VT	45	IN, OH	45	MD	39	VT
13	Children without a medical and dental preventive care visit	18%	СТ	31	IN, MI, WI	21	DC	18	СТ
14	Children who did not receive needed mental health care	4%	NE, RI	5	IN	6	PA	4	RI
15	Children without all recommended vaccines	15%	MA	21	WI	22	DE	15	MA
16	Hospital 30-day mortality	12.8%	MA	13.3	OH	13.0	DE	12.8	MA
17	Central line—associated blood stream infection (CLABSI)	0.36	WY	0.70	IL	0.82	NJ	0.68	VT
18	Hospitals with lower-than-average patient experience ratings	9%	ID	18	WI	33	DE	15	NH
19	Home health patients without improved mobility	20%	AL, MS	26	MI, OH, WI	22	MD	24	MA
20	Nursing home residents with an antipsychotic medication	7%	HI	13	MI, WI	11	DC, NJ	15	NH
21	Adults with any mental illness reporting unmet need	16%	HI	18	WI	20	NJ, NY	17	ME, RI
22	Adults with any mental illness who did not receive treatment	42%	ME	53	MI, OH, WI	48	DE	42	ME
	Avoidable Hospital Use and Cost								
23	Hospital admissions for pediatric asthma	21.7	VT	62.1	WI	93.3	MD	21.7	VT
	Potentially avoidable emergency department visits								
24	Ages 18–64, per 1,000 employer-insured enrollees	115.9	UT	141.9	MI	122.4	NY	125.6	MA
25	Age 65 and older, per 1,000 Medicare beneficiaries	138.3	HI	193.8	WI	178.8	NY	173.5	VT
	Admissions for ambulatory care—sensitive conditions								
26	Ages 18–64, per 1,000 employer-insured enrollees	5.6	WA	6.7	WI	6.2	NY	6.1	MA
27	Ages 65 and older, per 1,000 Medicare beneficiaries	21.7	HI	36.6	WI	41.9	MD	34.8	VT
	30-day hospital readmissions								
28	Ages 18–64, per 1,000 employer-insured enrollees	2.4	UT	3.2	ОН	3.0	MD	2.7	ME
29	Age 65 and older, per 1,000 Medicare beneficiaries	19.7	HI	33.5	WI	36.6	DE	30.6	VT
30	Skilled nursing facility patients with a hospital readmission	11%	AK	17	WI	19	DC, DE, MD, PA	16	ME, VT
31	Nursing home residents with a hospital admission	5%	HI	11	WI	12	PA	8	RI
32	Home health patients with a hospital admission	14%	AK, CA, ID, UT	16	IL	15	DC, MD		CT, ME, VT
33	Adults with inappropriate lower-back imaging	57.7%	AL	67.8	IL	66.5	MD	66.8	RI
34	Employer-sponsored insurance spending per enrollee	\$3,255	MS	4,904	IL	3,819	MD	4,242	RI
35	Medicare spending per beneficiary	\$6,195	HI	9,850	IL	9,205	DE	7,626	VT
	Healthy Lives								
36	Mortality amenable to health care	54.7	MN	69.4	WI	73.1	NJ	57.7	NH
37	Breast cancer deaths	15.6	HI	17.4	WI	17.9	NY	16.3	NH
38	Colorectal cancer deaths	9.3	CT	11.6	WI	12.2	NY	9.3	CT
39	Suicide deaths	6.6	DC	15.4	WI	6.6	DC	9.5	MA
40	Alcohol deaths	5.5	MD	11.2	WI	5.5	MD	8.2	CT
41	Drug poisoning deaths	8.1	NE VÆ	21.2	WI	19.4	NY	23.2	VT
42	Infant mortality	3.5	VT	6.3	WI	4.0	NJ	3.5	VT
43	Adults who report fair or poor health	9%	DC	16	WI	9	DC MD NII NIV	12	CT
44	Adults who smoke	9%	UT	16	WI	14	DC, MD, NJ, NY	13	CT
45	Adults who are obese	23% 21%	CO, DC CT	33 26	WI WI	23 29	DC DE DA	26	MA
46 47	Children who are overweight or obese Adults who have lost six or more teeth	6%	CA, DC, HI, UT	10	WI	6	DE, PA DC	21 7	CT CT
7/	Addits who have lost six of fillore teet!!	0/6	on, Do, HI, U I	I 10	**1	I 6	DC	·	CI

APPENDIX A3. National and Regional Performance Benchmarks (continued)

Indicator			Plains		Rockyl	Mountain	Sou	theast	So	uthwest	W	est
Discuss and Afford ability 10 10 10 10 10 10 10 1		Indicator	Pato		Pato		Pato		Pato	Bost state(s) ^a	Pato	
10 Description of the content of			Rate	State(s)	Rate	State(S)	Rate	State(S)	Rate	best state(s)	Rate	State(S)
2	1	-	6	IA. MN	10	СО	13	KY	13	NM	5	HI
An Add it shows an experiment of origin 17												
Author where without care because of coast 9 IA-NO 11 MT W 14 NC MT 4 NC MT MT MT MT MT MT MT M												
Second Second Control and Amen's of median income 5.5 J.A. Sol. UT All UT UT UT UT UT UT UT						MT						
Prevention and Treatment	5	High out-of-pocket medical spending	8	MN	12	CO, ID, MT	8	KY	8	NM	7	HI
Prevention and Treatment	6	Employee insurance costs as a share of median income	5.1	IA	5.0	UT	8.0	WV	8.0	TX	5.1	WA
8	7	Adults without a dental visit	12	IA, MN	14	UT	17	VA	17	AZ	12	HI
Multi-sultious altrecommended vaccines		Prevention and Treatment										
10 Debette outline without an ammailmening bits in A it is a minimal from the precentation of the precental rings in the precentage of	8	Adults without all recommended cancer screenings	29	MN	32	со	35	NC	35	AZ	26	НІ
11 Elsen'y patients without an ended a high-risk prescription drug 41 NK 49 CO 54 NC 54 OX 44 VA	9	Adults without all recommended vaccines	54	SD	57	СО	58	NC, VA, WV	58	ОК	57	WA
13 Elderly patients with or ecceived a high-risk prescription drug 7 MN, SD 9 MT 11 VA 11 NM 5 NE	10	Diabetic adults without an annual hemoglobin A1c test	5.6	MN	10.3	MT	9.6	NC	9.6	TX	7.1	WA
12 Children without a medical frome 41 NE	11	-	7	MN. SD	9	MT	11	VA	11	NM	5	HI
13 Children withouts a medical and dental preventive care visit 24 NA 82 CO 34 VA, W 34 AZ 28 VA												
14 Children who did not receive needed mental health care 19 NE 24 CO 30 NC 30 AZ 24 VIA												
15 Chairer without all recommended vecches 19 N.E. 24 C.D. 30 N.C. 30 A.Z. 24 WA 16 Hospital 30 day mortality 13.6 MN 13.8 C.D. 13.7 LA 13.7 A.Z., TX 13.4 C.A. 13.6 Cantral fire-sociated blood stream infection (CLASSD) 0.64 LA 0.36 W7 0.76 A.Z. 0.53 HI 18 Hospitals with lower sharn-average patient experience ratings 14 KS 9 ID 33 LA 33 TX 21 OR 19 Home health patients without improved mobility 24 KS, MO ND 21 UT 24 ALMS 24 OK 22 WA 10 Nursing home residents with an apply-potic medication 11 MN 13 W7 14 N.C. 14 A.Z. 7 HI 12 Adults with any mental lines who did not receive treatment 43 MN 54 O.M.T 55 KT, NC 55 OK 54 WA 13 Avoidable Hospital Use and Cost Value and Co		·										
13.6 Hospital 30-daymortality 13.6 MN												
17 Central line—associated blood stream infection (CLABSD)												
18 Hospitals with lower-than-average patient experience ratings 14 KS 9 ID 33 LA 33 TX 21 OR 19 Home health patients without improved mobility 24 KS MOLND 21 UT 24 AL MS 24 OK 26 WA 20 Nursing home residents with an analysy-photic medication 14 MN 13 WY 14 NC 14 AZ 7 HI 21 Adults with any mental illness reporting unmet need 17 NE 21 MT_UT, WY 17 AL 17 TX 16 HI 22 Adults with any mental illness serporting unmet need 17 NE 21 MT_UT, WY 17 AL 17 TX 16 HI 23 Hospital admissions for pediatric saftma 42.0 NE 44.3 MN 54 CO, MT 55 KY, NC 55 OK 54 WA 24 Ages 18-46, per 1,000 employer-insured enrollees 12.9 SD 115.9 UT 143.5 KY 143.5 NM 117.7 CA 25 Age 67 and older, per 1,000 Medicare beneficiaries 155.1 SD 151.4 UT 191.0 SC 191.0 AZ 138.3 HI 26 Ages 18-46, per 1,000 employer-insured enrollees 6.2 MN SB CO 6.4 NC 6.4 AZ 5.6 WA 30 day hospital readmissions 30 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 30 day hospital readmissions 30 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 31 Nursing home residents with a hospital readmission 15 NO, NE, SD 31 ID, UT 18 NC, TN, VA 18 NM 11 AK 31 Nursing home residents with a hospital areadmission 7 NM 9 CO 7 VA 7 AZ 5 HI 30 day hospital readmissions 7 NM 9 CO 7 VA 7 AZ 5 HI 31 Hill during facility patients with a hospital areadmission 15 NO, NE, SD 31 ID, UT 18 NC, TN, VA 18 NM 11 AK 31 Nursing home residents with a hospital admission 7 NM 9 CO 7 VA 7 AZ 5 HI 32 Home health patients with a hospital admission 15 NO, NE, SD 13 ID, UT 15 NE, L 15 AZ, NM TI AC 33 Adults with inappropriate lower-back maging 645 MO 689 MT 642 AL 642 AZ 624 AZ 3.99 HI 44												
19 Home health patients without improved mobility 24 KS,MO,ND 21 UT 24 AL,MS 24 OK 26 WA	17	Central line–associated blood stream infection (CLABSI)	0.64		0.36		0.76		0.76		0.53	
Nursing home residents with an antipsychotic medication	18	Hospitals with lower-than-average patient experience ratings	14	KS	9	ID	33	LA	33	TX	21	OR
21 Adults with any mental illness reporting unmet need	19	Home health patients without improved mobility	24	KS, MO, ND	21	UT	24	AL, MS	24	OK	26	WA
Adults with any mental lines who did not receive treatment	20	Nursing home residents with an antipsychotic medication	14	MN	13	WY	14	NC	14	AZ	7	HI
Avoidable Hospital Use and Cost 42.0 NE	21	Adults with any mental illness reporting unmet need	17	NE	21	MT, UT, WY	17	AL	17	TX	16	HI
Hospital admissions for pediatric asthma 42.0 NE 44.3 MT 67.6 TN 67.6 TX 46.3 OR Potentially avoidable emergency department visits 125.9 SD 115.9 UT 143.5 KY 143.5 NM 117.7 CA 24.5 CA 25.6 CA	22	Adults with any mental illness who did not receive treatment	43	MN	54	CO, MT	55	KY, NC	55	OK	54	WA
Potentially avoidable emergency department visits 125.9 SD 115.9 UT 143.5 KY 143.5 NM 117.7 CA 138.6 KP 143.5 NM 143.5 NM 117.7 CA 138.6 KP 143.5 NM 143.5 NM 117.7 CA 138.6 KP 143.5 NM 1		Avoidable Hospital Use and Cost										
24 Ages 18-64, per 1,000 employer-insured enrollees 12S,9 SD 11S,9 UT 143.5 KY 143.5 NM 117.7 CA	23	Hospital admissions for pediatric asthma	42.0	NE	44.3	MT	67.6	TN	67.6	TX	46.3	OR
25 Age 65 and older, per 1,000 Medicare beneficiaries 155.1 SD 151.4 UT 191.0 SC 191.0 AZ 138.3 HI		Potentially avoidable emergency department visits										
Admissions for ambulatory care-sensitive conditions 26 Ages 18-64, per 1,000 employer-insured enrollees 35.3 MN 23.3 UT 28.3 SC 28.3 AZ 21.7 HI 30 day hospital readmissions 30 day hospital readmissions 30.0 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 29 Ages 65 and older, per 1,000 Medicare beneficiaries 30.7 SD 22.6 UT 28.6 SC 28.6 NM 19.7 HI 30 Skilled nursing facility patients with a hospital admission 15 ND, NE, SD 13 ID, UT 18 NC, TN, VA 18 NM 11 AK 31 Nursing home residents with a hospital admission 27 MN 9 CO 7 VA 7 AZ 5 HI 38 Addits with inappropriate lower-back imaging 46.5 MO 68.9 MT 64.2 AL 64.2 TX 62.4 NV 34 Employer-sponsored insurance spending per enrollee 38.51 IA 4,537 UT 4,624 MS 4,624 AZ 3,299 HI 35 Medicare spending per beneficiary 48 Mortality amenable to health care 54.7 MN 60.7 UT 7,729 VA 7,729 NM 6,195 HI 44 Batthy Lives 36 Mortality amenable to health care 54.7 MN 16.5 WY 18.1 FL 18.1 AZ NM, OK, TX 11.2 HI 39 Suicide deaths 10.2 ND 9.8 UT, WY 12.2 NC 12.2 AZ 11.2 HI 39 Suicide deaths 10.2 ND 9.8 UT, WY 12.2 NC 12.2 AZ 11.2 HI 39 Suicide deaths 10.4 MN 20.3 CO 13.4 VA 13.4 TX 10.5 CA 40 Akchol deaths 11.8 MN 20.3 CO 5.3 VA 5.3 AZ 6.2 4.2 CA 41 Adults who report fair or poor health 11 MN 11 MN 12 UT 18 VA 18 AZ 15.6 HI 41 Drug poisoning deaths 11 MN 9 UT 16 FL, VA 16 AZ, TX 11 CA 42 Infant mortality 43 Adults who report fair or poor health 44 Adults who report fair or poor health 45 Adults who report fair or poor health	24	Ages 18–64, per 1,000 employer-insured enrollees	125.9	SD	115.9	UT	143.5	KY	143.5	NM	117.7	CA
26 Ages 18-64, per 1,000 employer-insured enrollees 6.2 MN 5.8 CO 6.4 NC 6.4 AZ 5.6 WA 27 Ages 65 and older, per 1,000 Medicare beneficiaries 35.3 MN 23.3 UT 28.3 SC 28.3 AZ 21.7 HI 30-day hospital readmissions 30.7 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 29 Age 65 and older, per 1,000 employer-insured enrollees 30.7 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 29 Age 65 and older, per 1,000 employer-insured enrollees 30.7 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 29 Age 65 and older, per 1,000 employer-insured enrollees 30.7 ND 2.2 UT 3.0 AL 3.0 NM 2.7 WA 30 Skilled nursing facility patients with a hospital admission 15 ND 14 ID,UT 15 FL 15 AZ MX CA AZ 5	25	Age 65 and older, per 1,000 Medicare beneficiaries	155.1	SD	151.4	UT	191.0	SC	191.0	AZ	138.3	HI
27 Ages 65 and older, per 1,000 Medicare beneficiaries 30-day hospital readmissions 28 Ages 18-64, per 1,000 employer-insured enrollees 30 ND 24 UT 30 AL 30 NM 27 WA 29 Age 65 and older, per 1,000 demployer-insured enrollees 30.7 ND 22.6 UT 28.6 SC 28.6 NM 19.7 HI 31 Nursing home residents with a hospital readmission 15 ND, NE, SD 13 ID, UT 18 NC, TN, VA 18 NM 111 AK 31 Nursing home residents with a hospital admission 7 MN 9 CO 7 VA 7 AZ 5 HI 32 Home health patients with a hospital admission 15 ND 14 ID, UT 15 FL 15 AZ, NM, OK, TX 14 AK, CA 33 Adults with inappropriate lower-back imaging 44.5 MO 68.9 MT 64.2 AL 64.2 TX 62.4 NV 34 Employer-sponsored insurance spending per enrollee 3,851 IA 4,537 UT 4,624 MS 4,624 AZ 3,299 HI 35 Medicare spending per beneficiary 8,10 SD 7,552 MT 7,729 VA 7,729 NM 6,195 HI 44 Eathy Lives 36 Mortality amenable to health care 37 Breast cancer deaths 16.7 MN 16.5 WY 18.1 FL 18.1 AZ 15.6 HI 38 Colorectal cancer deaths 16.7 MN 16.5 WY 18.1 FL 18.1 AZ 15.6 HI 40 Akchol deaths 17.9 MO 9 AD 3 Suicide deaths 18.1 NE 11.7 MT 10.5 MS 10.5 TX 11.7 CA 11.7 CA 11.1 MN 11.1 MN 12.1 UT 18 VA 18 AZ 24 AZ 24 AK 26 CA 41 AGUlts who report fair or poor health 11 MN 12 UT 18 VA 18 AZ 24 AZ 24 AK 26 CA 41 AG 42 CA 43 Adults who report fair or poor health 11 MN 12 UT 16 FL 17 AR 18 NC, TN, VA 18 NM 19.7 HI 10.0 NM 10.5 NM 10.5 NM 10.5 TX 11.7 CA 11.7 CA 11.8 CA 11.8 CA 11.8 CA 11.9 C		Admissions for ambulatory care—sensitive conditions										
30-day hospital readmissions 28	26	Ages 18–64, per 1,000 employer-insured enrollees	6.2	MN	5.8	СО	6.4	NC	6.4	AZ	5.6	WA
28 Ages 18–64, per 1,000 employer-insured enrollees 3.0 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 29 Age 65 and older, per 1,000 Medicare beneficiaries 30.7 SD 22.6 UT 28.6 SC 28.6 NM 19.7 HI 30 Skilled nursing facility patients with a hospital admission 15 ND. NE, SD 13 ID, UT 18 NC, TN, VA 18 NM 11 AK 31 Nursing home residents with a hospital admission 15 ND 14 ID, UT 15 FL 15 AZ 5 HI 32 Home health patients with a hospital admission 15 ND 14 ID, UT 15 FL 15 AZ, MA, OK, TX 14 AK CA 33 Adults with inappropriate lower-back imaging 64.5 MO 68.9 MT 64.2 AL 64.2 TX 62.4 NV 34 Employer-sponsored insurance spending per enrollee 3,851 IA	27	Ages 65 and older, per 1,000 Medicare beneficiaries	35.3	MN	23.3	UT	28.3	SC	28.3	AZ	21.7	HI
28 Ages 18–64, per 1,000 employer-insured enrollees 3.0 ND 2.4 UT 3.0 AL 3.0 NM 2.7 WA 29 Age 65 and older, per 1,000 Medicare beneficiaries 30.7 SD 22.6 UT 28.6 SC 28.6 NM 19.7 HI 30 Skilled nursing facility patients with a hospital admission 15 ND. NE, SD 13 ID, UT 18 NC, TN, VA 18 NM 11 AK 31 Nursing home residents with a hospital admission 7 MN 9 CO 7 VA 7 AZ 5 HI 32 Home health patients with a hospital admission 15 ND 14 ID, UT 15 FL 15 AZ, NM, OK,TX 14 AK,CA 33 Adults with inappropriate lower-back imaging 64.5 MO 68.9 MT 64.2 AL 64.2 TX 62.4 NV 34 Employer-sponsored insurance spending per enrollee 3,851 IA 4,537 UT 4,624 MS 4,624 AZ 32.99 HI<		30-day hospital readmissions										
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Solution	34			IA	4,537	UT	4,624	MS	4,624	AZ	3,299	HI
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46 Children who are overweight or obese 22 ND 23 ID 24 AR 24 AZ 24 AK, OR	44		14	MN	9	UT		FL, VA	16	AZ, TX	11	CA
	45	Adults who are obese	28	MN	23	СО	30	FL	30	NM	25	CA, HI
47. Adulte who have lest siver more teath	46	Children who are overweight or obese	22	ND	23	ID	24	AR	24	AZ	24	AK, OR
47 Addits with flave lost six of filling teetin / Min, NC 0 UI / VA / IX 6 CA, HI	47	Adults who have lost six or more teeth	7	MN, NE	6	UT	7	VA	7	TX	6	CA, HI

APPENDIX A4. Change in State Health System Performance by Indicator

Indicator		Number of state	s that:
(arranged by number of states with improvement within dimension)	Improved	d ^a No Change	e ^b Worsened
Access and Affordability			
Uninsured adults		47	
Uninsured children		32	18
Adults without a usual source of care	12		37
Adults who went without care because of cost		32	18
High out-of-pocket medical spending			27
Employee insurance costs as a share of median income		27	19
Adults without a dental visit Prevention and Treatment	7	35	9
Adults without all recommended cancer screenings	2	41	g
Adults without all recommended vaccines			33
Diabetic adults without an annual hemoglobin A1c test		45	15
Children without a medical home		25	16
Children without a medical and dental preventive care visit		25	11
Children who did not receive needed mental health care	16	18	17
Children without all recommended vaccines		25	17 9
Hospital 30-day mortality		50	
Central line—associated blood stream infection (CLABSI)		27	20
Home health patients without improved mobility		51	
Nursing home residents with an antipsychotic medication		50	
Adults with any mental illness reporting unmet need		14	17
Adults with any mental illness who did not receive treatment		3	21
Avoidable Hospital Use and Cost			
Hospital admissions for pediatric asthma		28	23
Potentially avoidable emergency department visits ages 18–64		44	
Potentially avoidable emergency department visits age 65 and older		31	16
Preventable hospitalizations ages 18–64		49	
Preventable hospitalizations age 65 and older	11		40
Hospital 30-day readmission rate ages 18–64	2	25	24
Hospital 30-day readmission rate age 65 and older	6	45	
Skilled nursing facility patients with a hospital readmission	19		32
Nursing home residents with a hospital admission	17		34
Home health patients with a hospital admission	11	31	9
Adults with inappropriate lower-back imaging			30
Employer-sponsored insurance spending per enrollee		38	12
Medicare spending per beneficiary		30	21
Healthy Lives Mortality among blo to health care		50	
Mortality amenable to health care Breast cancer deaths		50	26
Colorectal cancer deaths		30	26
Suicide deaths		39 34	12
Alcohol deaths		34	17
Drug poisoning deaths			29
Infant mortality		35	
Adults who report fair or poor health		30	18
Adults who report fail of poor realth		32	19
Adults who are obese	23		28
Children who are overweight or obese		26	12
Adults who have lost six or more teeth		42	

Notes: Only Scorecard indicators with trends are shown. Trend data generally reflect the two- to three-year period ending in 2015 or 2016—refer to Appendix Exhibit A1 for additional detail (trend data were not available for all indicators). For purposes of this analysis we count District of Columbia as a state. (a) Improvement or worsening refers to a change between the baseline and current time periods of at least 0.5 standard deviations. (b) Includes the number of states with no change or without sufficient data for this subpopulation to assess change over time.

APPENDIX A5. National Cumulative Impact if All States Achieved Top State Rate

Indicator	If all states imp	roved their performance to the level of the best-performing state for this indicator, then:
Insured adults	15,517,664	more adults (ages 19–64) would be covered by health insurance (public or private), and therefore would be more likely to receive health care when needed.
Insured children	3,124,225	more children (ages 0–18) would be covered by health insurance (public or private), and therefore would be more likely to receive health care when needed.
Went without care because of cost	14,951,586	fewer adults (age 18 and older) would go without needed health care because of cost.
High out-of-pocket medical spending	13,603,821	fewer individuals would be burdened by high out-of-pocket spending on medical care.
Adult usual source of care	27,411,240	more adults (age 18 and older) would have a usual source of care to help ensure that care is coordinated and accessible when needed.
Adult cancer screening	11,714,671	more adults would receive age- and gender-appropriate recommended cancer screenings, including tests for colon, breast, and cervical cancers.
Adult vaccines	19,935,447	more adults would receive age- appropriate recommended vaccines.
Children with a medical home	8,875,559	more children (ages 0 $-$ 17) would have a medical home to help ensure that care is coordinated and accessible when needed.
Children vaccines	808,883	more children (ages 19–35 months) would receive all recommended vaccines.
Children with preventive medical and dental visits	10,354,819	more children (ages 0–17) would receive annual preventive medical and dental care visits each year.
Medicare received a high-risk drug	210,760	fewer Medicare beneficiaries would receive an inappropriately prescribed medication.
Preventable hospital admissions among children	48,446	fewer children (ages 2–17) would be hospitalized for asthma exacerbations.
Hospital readmissions	296,928	fewer employer-insured adults and elderly Medicare beneficiaries would experience a hospital readmission within 30 days of discharge.
Potentially avoidable emergency department visits	6,767,282	fewer employer-insured adults and elderly Medicare beneficiaries would seek care in emergency departments for nonemergent or primary-care-treatable conditions.
Mortality amenable to health care	90,162	fewer premature deaths (before age 75) might occur from causes that are potentially treatable or preventable with timely and appropriate health care.
Breast cancer deaths	7,083	fewer women would die from breast cancer.
Colon cancer deaths	11,634	fewer individuals would die from colon cancer.
Suicides	23,914	fewer individuals would take their own lives.
Adults who smoke	17,443,517	fewer adults would smoke, reducing their risk of lung and heart disease.
Adults who are obese	15,849,074	fewer adults would be obese, with body weights that increase their risk for disease and long-term complications.
Children who are overweight or obese	3,379,093	fewer children (ages $10-17$) would be overweight or obese, thus reducing the potential for poor health as they transition into adulthood.

APPENDIX BO. State Scorecard Summary of Health System Performance Across Dimensions

Overall performance

O Top quartile

Second quartile

Third quartile

Bottom quartile

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			Access an	d bilid b	on and Avoidab	le Jege	WLIVE'S DISPART	4	_			Access and	Applied Fresh	ant we	inge 'n	ives
	Curre	ent Ranking	coes (0	idar event	atrie doidat	st eath	d' spain	.,	В	aseli	ne Ranking	cession	at evention	ne doldar	. Calthy	ispain.
_	1	Hawaii	be by	8, 4,	► C	, 4s	.	٦	_	1	Hawaii	be by	8, V.	₽ O	- Are	Q ,
	2	Massachusetts						-	(2	Massachusetts					
	3	Minnesota						-		3	Minnesota					
	4	Washington								4	Vermont					
	5	Connecticut								5	New Hampshire					
	5	Vermont								5	Utah					
	7	Rhode Island								7	Iowa					
	8	Iowa								8	Connecticut					
	9	Colorado								9	Maine					
	10	New Hampshire								10	Delaware					
	11	Utah								11	Maryland					
	12	Maine							>	12	Colorado					
\geq	12	Wisconsin								12	Wisconsin					
	14	California								14	North Dakota					
	14	New York								14	Washington					
	16	North Dakota								16	Rhode Island					
	17	Oregon								17	Nebraska					
	18	Idaho			_					18	South Dakota					
	18	Maryland				_				19	Pennsylvania					
	20 21	New Jersey					_			20	Idaho					
	22	Pennsylvania Nebraska			_			-		20	Virginia					
	23	District of Columbia						-		22 23	New Jersey Oregon					
	23	South Dakota					_			24	NewYork					
	25	Michigan		_	1		25	Montana								
	26	Montana					_			26	California					
	27	Delaware								26	Wyoming					
	28	Illinois								28	Illinois					
	29	Virginia								29	Michigan					
	30	Alaska								30	District of Columbia					
	30	Kansas								30	Kansas					
	32	Arizona								30	New Mexico					
	33	Ohio								33	Ohio					
	34	North Carolina								34	North Carolina					
	35	New Mexico								35	Alaska					
	36	Indiana								35	Arizona					
	37	Wyoming								37	Alabama					
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	38	Tennessee								39	Georgia					
	40 41	Kentucky			 		_			40	Indiana					
	41	South Carolina Georgia			_					41 42	Missouri Tennessee				_	
	43	Missouri			_					43	Texas					
	44	Florida					_			44	Kentucky					
	45	Louisiana				_				45	Florida					
	45	West Virginia								46	West Virginia					
	47	Arkansas						1		47	Nevada					
	48	Nevada								48	Arkansas					
	49	Texas								49	Oklahoma					
	50	Oklahoma								50	Louisiana					
	51	Mississippi								51	Mississippi					

APPENDIX B1. Summary of State Rankings in Current and Previous Scorecards

			2019 Scoreca				Ovorall ranking
		l					Overall ranking in the baseline
Ctata	Overall	Access and	Prevention and	Avoidable Use	Healthy	Diaments.	
State	ranking	Affordability	Treatment	and Cost	Lives	Disparity	time period ^a
Alabama	38	35	30	34	46	36	37
Alaska	30	39	38	8	36	14	35
Arizona	32	44	41	10	20	16	35
Arkansas	47	37	47	38	45	50	48
California Colorado	14 9	22 31	35 10	14 5	5 10	4	26 12
	5	6	9	27	10	11 22	8
Connecticut Delaware	27	20		28	35	28	10
District of Columbia	27		13 21	28 44	28	28	30
	44	8 47	44	49	31	32	45
Florida	44	46	40	32	37	43	39
Georgia Hawaii	1	2	5	1	3	43	1
Idaho	18	35	33	3	17	8	20
Illinois	28	18	31	40	29	29	28
Indiana	36	27	34	36	41	43	40
lowa	8	5	2	13	22	19	7
Kansas	30	23	29	35	27	40	30
Kentucky	40	23	20	48	49	40	44
Louisiana	45	43	48	47	47	9	50
Maine	12	14	7	16	30	12	9
Maryland	18	14	11	20	25	35	11
Massachusetts	2	1	1	31	4	7	2
Michigan	25	10	17	41	32	26	29
Minnesota	3	9	3	11	2	5	3
Mississippi	51	45	46	50	50	34	51
Missouri	43	33	37	45	38	51	41
Montana	26	32	36	7	26	25	25
Nebraska	22	29	14	21	12	31	17
Nevada	48	50	51	38	39	24	47
New Hampshire	10	4	8	18	9	38	5
NewJersey	20	19	22	30	12	21	22
New Mexico	35	40	49	16	42	3	30
New York	14	17	26	36	7	2	24
North Carolina	34	42	15	24	33	46	34
North Dakota	16	21	24	9	16	19	14
Ohio	33	16	25	42	43	42	33
Oklahoma	50	49	42	46	48	45	49
Oregon	17	23	39	6	14	17	23
Pennsylvania	21	12	19	33	34	9	19
Rhode Island	7	3	5	26	11	13	16
South Carolina	41	41	42	25	40	47	38
South Dakota	23	28	16	15	20	32	18
Tennessee	38	38	27	29	44	39	42
Texas	49	51	45	42	23	48	43
Utah	11	34	31	2	5	15	5
Vermont	5	7	4	12	14	17	4
Virginia	29	30	23	22	19	49	20
Washington	4	13	18	3	8	6	14
West Virginia	45	26	27	51	51	30	46
Wisconsin	12	11	11	23	18	27	12
Wyoming	37	48	50	18	23	37	26

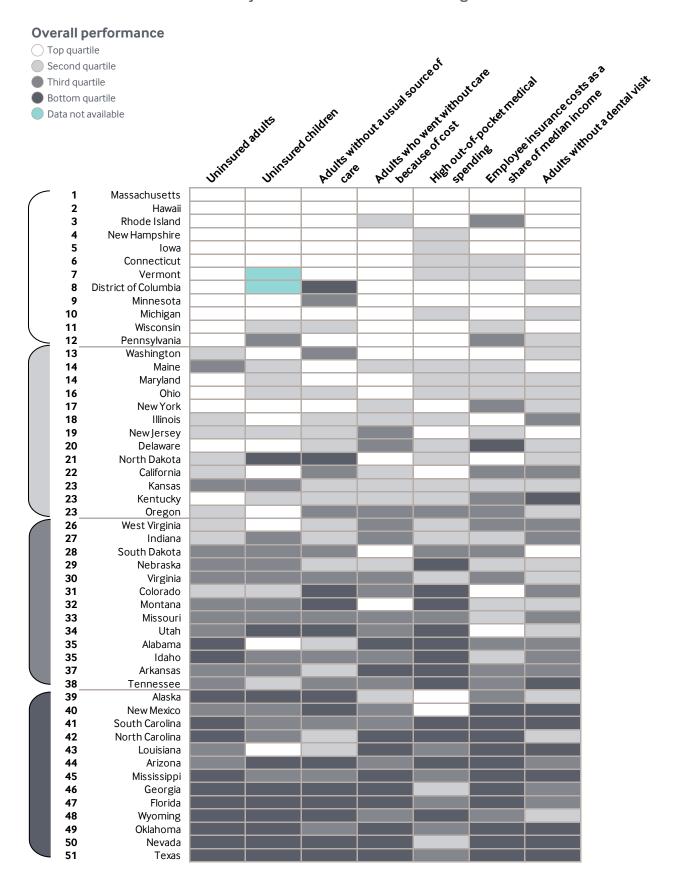
Notes: (a) The baseline period generally reflects two to three years prior to the time of observation for the latest year of data available. This is not the same ranking as reported in our 2017 State Scorecard and should not be compared to the 2017 ranking because of changes in the underlying set of performance indicators evaluated in the two reports.

APPENDIX B2. Summary of Indicator Rankings by State

		No. of							No. of			
		indicators							indicators	No. of	No. of	
Overall		scored	Top 5	Тор	2nd	3rd	Bottom	Bottom 5	with trend	indicators	indicators	Net
ranking	State	(of 47)	states	quartile	quartile	quartile	quartile	states	(of 45)	improved	worsened	change
38	Alabama	46	5	8	7	9	22	11	44	14	7	7
30	Alaska	46	9	11	11	9	15	10	41	15	11	4
32 47	Arizona	47	3 2	8 4	16 8	12 11	11 24	3 11	45 45	15 18	8 9	7 9
	Arkansas	47	10		10	12				18		9
14 9	California Colorado	47 47	9	17 20	16	7	8	2 0	45 45	15	5 8	7
5	Connecticut	47	12	23	10	9	5	0	45 45	18	6	12
27	Delaware	46	3	10	16	13	3 7	2	44	11	13	-2
23	District of Columbia	39	12	14	7	5	13	8	35	17	4	13
44	Florida	47	1	4	8	13	22	9	45	13	6	7
42	Georgia	47	1	5	7	18	17	5	45	11	8	3
1	Hawaii	47	25	29	12	4	2	2	43	11	12	-1
18	Idaho	46	8	15	10	10	11	4	44	13	7	6
28	Illinois	47	1	7	13	20	7	2	45	16	7	9
36	Indiana	47	1	5	11	19	12	2	45	15	9	6
8	Iowa	47	10	22	19	3	3	3	45	14	9	5
30	Kansas	47	1	3	21	17	6	2	45	16	11	5
40	Kentucky	47	1	5	15	6	21	14	45	18	9	9
45	Louisiana	46	2	4	11	8	23	18	44	18	7	11
12	Maine	46	6	12	21	8	5	0	44	15	9	6
18	Maryland	46	7	19	10	13	4	2	45	17	12	5
2	Massachusetts	47	17	29	7	6	5	2	45	9	8	1
25	Michigan	47	3	8	17	17	5	2	45	17	3	14
3	Minnesota	47	13	28	11	6	2	0	45	15	5	10
51	Mississippi	46	3	7	1	9	29	23	44	16	10	6
43	Missouri	47	0	4	8	24	11	5	45	19	11	8
26	Montana	47	4	15	16	7	9	6	45	14	10	4
22	Nebraska	47	10	15	15	10	7	5	45	11	10	1
48	Nevada	46	1	4	6	12	24	14	44	11	8	3
10	New Hampshire	46	11	22	15	4	5	3	44	10	10	0
20	NewJersey	47	7	12	17	11	7	3	45	16	8	8
35	New Mexico	47	2	6	8	19	14	11	44	10	16	-6
14	New York	47	8	15	16	10	6	3	45	18	10	8
34	North Carolina	47	2	9	13	16	9	1	45	13	10	3
16	North Dakota	47	7	17	14	9	7	1	43	13	11	2
33	Ohio	47	0	5	17	11	14	1	45	13	6	7
50	Oklahoma	47	1	2	10	7	28	18	45	13	10	3
17	Oregon	47	8	16	15	8	8	4	45	14	9	5
21	Pennsylvania	47	4	12	12	18	5	3	44	16	7	9
7	Rhode Island	45	15	21	12	5	7	2	43	21	7	14
41	South Carolina	40	0 7	2 15	9	18	11	3	38	9	9	0 5
23 38	South Dakota	47	4		12	16 15	4 17	2	45 44	16 17	11 7	
38 49	Tennessee Texas	46 47	4	6 8	8 5	13	17 21	4 12	44 45	17	7 6	10 8
11	Utah	47	15	8 19	5 11	13	5	3	45 44	14	7	3
5	Vermont	46	10	23	13	8	2	1	44	13	9	4
29	Virginia	47	10	8	23	11	5	1	45	14	10	4
4	Washington	47	9	26	12	5	4	1	45	19	5	14
45	West Virginia	47	2	6	8	10	23	14	45	19	13	6
12	Wisconsin	46	5	16	18	8	4	2	44	15	8	7
37	Wyoming	46	5	11	8	12	15	11	44	13	14	-1

 $Notes: Improvement or worsening \, refers \, to \, a \, change \, between \, the \, baseline \, and \, current \, time \, periods \, of \, at \, least \, 0.5 \, standard \, deviations.$

APPENDIX C1. Access & Affordability: Dimension and Indicator Ranking



APPENDIX C2. Access & Affordability: Dimension Ranking and Indicator Rates

							Adults ag	o 10 and
							older wh	
	Adults ag		Children a		Adults w		without car	
	unins	ured	unins	ured	usual sou	rce of care	of cost in	oast year
	2013	2017	2013	2017	2013	2017	2013	2017
United States	20%	12% *	8%	5% *	24%	23%	16%	14% *
Alabama	20	15 *	5	3 *	22	21	16	17
Alaska	24	18 *	12	10 *	33	31	14	12 *
Arizona	24	14 *	13	8 *	32	27 *	17	14 *
Arkansas	24	12 *	6	5	23	20 *	21	16 *
California	24	10 *	8	3 *	29	24 *	16	12 *
Colorado	19	10 *	9	4 *	24	26	15	13 *
Connecticut	13	8 *	4	3	15	15	12	10 *
Delaware	14	8 *	5	3 *	14	18 *	12	13
District of Columbia	8	5 19 *	3		24	26	11	11 16 *
Florida	29 26	19 *	12 10	7 * 7 *	27 28	28 28	21 20	17 *
Georgia		19 * 5 *					I	
Hawaii	10 23	16 *	3	2 5 *	15 28	17 25 *	9 16	8 14 *
Idaho Illinois	18	10 *	5	3 *	28 20	18	14	12 *
Indiana	19	11 *	9	6 *	20	19	16	13 *
lowa	12	6 *	5	3 *	19	17	10	8 *
Kansas	18	12 *	7	5 *	22	22	14	12 *
Kentucky	21	7 *	6	4 *	22	18 *	19	12 *
Louisiana	25	12 *	6	3 *	26	22 *	20	17 *
Maine	16	12 *	5	4	13	13	10	12 *
Maryland	14	8 *	5	4	21	17 *	13	10 *
Massachusetts	5	4	2	1	12	14	9	9
Michigan	16	7 *	5	3 *	17	15	15	11 *
Minnesota	11	6 *	6	3 *	27	25	10	10
Mississippi	25	18 *	8	5 *	23	24	22	18 *
Missouri	18	13 *	7	5 *	21	24 *	16	14 *
Montana	23	13 *	11	6 *	30	29	14	11 *
Nebraska	15	12	6	6	21	20	13	12
Nevada	27	15 *	14	8 *	35	34	17	17
New Hampshire	16	8 *	4	3	12	13	12	10 *
New Jersey	19	11 *	6	4 *	19	21	15	14
New Mexico	28	13 *	9	5 *	31	29	18	14 *
New York	15	8 *	4	3	19	17	15	12 *
North Carolina	23	16 * 9 *	6	5	27	21 *	18	16 *
North Dakota	14 16	8 *	8 5	7 4	27 19	29 19	7 15	8 11 *
Ohio Oklahoma	25	20 *	11	8 *	26	25	17	17
Oregon	25	10 *	7	3 *	26	23 *	18	17
Pennsylvania	14	7 *	5	5	14	15	12	10 *
Rhode Island	17	6 *	6	2 *	16	12 *	14	12 *
South Carolina	23	16 *	7	5 *	24	23	19	15 *
South Dakota	17	13 *	7	6	24	24	10	10
Tennessee	20	14 *	6	4 *	23	23	18	15 *
Texas	30	24 *	13	11 *	33	32	19	20
Utah	18	12 *	9	7 *	28	29	15	14
Vermont	10	6 *			13	13	9	9
Virginia	17	12 *	6	5	24	23	15	14
Washington	20	9 *	7	3 *	28	24 *	15	11 *
West Virginia	20	9 *	5	3 *	23	19 *	18	15 *
Wisconsin	13	7 *	5	4	19	18	12	11
Wyoming	18	16	7	10 *	31	32	14	15
Change								
States Improved		47		32		12		32
States Worsened		0		1		2		1

Notes: *Denotes a change of at least 0.5 standard deviations. **Denotes a change of 1.0 standard deviation or more. —Indicates that estimates are not available.

APPENDIX C2. Access & Affordability: Dimension Ranking and Indicator Rates (continued)

			Employee	insurance		
	I limb and	a fina alsat			A alcolate co	م در در داده
		of-pocket	costs as a		Adults w	
	medical	spending	median	income	denta	l visit
	2013-14	2016-17	2013	2017	2012	2016
United States	11%	10%	6.5%	6.9%	15%	16%
Alabama	13	12	6.5	6.9	18	16 *
Alaska	14	8 *	5.9	7.2 *	14	15
Arizona	12	12	8.0	8.8 *	17	17
Arkansas	16	13 *	7.2	7.5	19	16 *
California	9	8	7.0	7.2	16	16
Colorado	10	12 *	5.1	5.6	16	16
Connecticut	10	9	5.9	5.9	11	10
Delaware	9	9	7.6	8.5 *	12	14 *
District of Columbia	8	5 *	6.2	5.6 *	16	14 *
Florida	11	11	9.0	8.0 *	18	17
Georgia	11	10	7.2	8.0 *	16	17
Hawaii	8	7	4.4	5.3 *	15	12 *
Idaho	17	12 *	5.7	5.9	13	16 *
Illinois	9	9	6.4	5.5 *	15	17 *
Indiana	12	10 *	6.5	6.0	15	16
lowa	12 10	10 *	5.5	5.1	12	12
Kansas	10	10 9 *	6.3 7.4	6.0 7.3	13	14 18 *
Kentucky	13	11 *	8.1	7.3 10.2 *	16 20	20
Louisiana Maine	11	9 *	6.9	6.2 *	13	13
Maryland	7	9 *	5.4	6.2 *	13	15 *
Massachusetts	7	8	5.5	5.4	11	12
Michigan	11	10	5.9	4.8 *	14	14
Minnesota	9	8	4.9	5.4	11	12
Mississippi	15	11 *	8.5	8.6	19	18
Missouri	12	11	6.3	6.3	15	17 *
Montana	15	12 *	5.4	6.1 *	17	15 *
Nebraska	12	13	6.0	5.9	15	14
Nevada	13	10 *	8.0	8.2	20	19
New Hampshire	9	9	4.9	5.6 *	10	11
New Jersey	9	8	5.2	5.9 *	15	13 *
New Mexico	10	8 *	7.7	9.3 *	18	19
New York	8	7	6.6	7.6 *	15	15
North Carolina	14	14	7.8	8.2	15	15
North Dakota	12	10 *	4.9	5.5	15	14
Ohio	10	9	5.5	5.7	14	15
Oklahoma	12	11	7.9	8.1	18	18
Oregon	15	11 *	6.2	6.4	15	14
Pennsylvania	9	8	5.2	6.6 *	13	15 *
Rhode Island South Carolina	9	6 * 12	5.8 7.1	6.9 * 7.7 *	12 18	11 18
		11 *				13 *
South Dakota Tennessee	14 17	12 *	6.8 7.5	6.9 7.6	11 17	13 **
Texas	17	11	7.5 7.9	7.6 8.0	17	18
Utah	14	13	4.6	5.0	16	14 *
Vermont	9	10	4.6 5.7	6.1	11	12
Virginia	9	10	5.7	6.9 *	12	14 *
Washington	10	8 *	5.0	5.1	14	15
West Virginia	12	10 *	5.0	6.4 *	18	17
Wisconsin	12	8 *	5.0	6.0 *	12	12
Wyoming	13	15 *	4.9	6.4 *	15	15
Change						
States Improved		21		5		7
States Worsened		3		19		9
Cartos Troisoniou		,		17		,

Notes: *Denotes a change of at least 0.5 standard deviations. **Denotes a change of 1.0 standard deviation or more. —Indicates that estimates are not available.

APPENDIX C3. Uninsured Adults Ages 19–64 by Income and by Race/Ethnicity

	Total	Population		(<2	00% FPL)			(2017 on	(2017 only)	
	2013	2016	2017	2013	2016	2017	Black	Hispanic	Other	White
United States	20%	12%	12%	38%	23%	23%	14%	25%	10%	8%
Alabama	20	14	15	37	27	27	16	45	14	12
Alaska	24	18	18	46	34	26			31	14
Arizona	24	14	14	41	22	23	10	22	14	9
Arkansas	24	12	12	40	18	18	10	35	18	9
California	24	10	10	41	19	18	8	17	6	6
Colorado	19	10	10	35	19	18	11	21	9	7
Connecticut	13	7	8	28	14	16	9	20	8	5
Delaware	14	8	8	26	15	14	7	26	8	5
District of Columbia	8	5	5	12	8	8	5	12		3
Florida	29	18	19	46	31	32	21	27	16	15
Georgia	26	18	19	46	35	35	19	45	17	14
Hawaii	10	5	5	21	10	12		7	5	6
Idaho	23	15	16	37	27	27		35	15	14
Illinois	18	9	10	36	19	19	11	24	8	6
Indiana	19	11	11	37	21	21	15	29	12	9
lowa	12	6	6	26	11	12		19	13	5
Kansas	18	12	12	37	27	26	15	28	13	9
Kentucky	21	7	7	38	11	12	9	30	12	6
Louisiana	25	15	12	42	26	20	13	38	16	10
Maine	16	11	12	26	20	23			18	11
Maryland	14	8	8	30	18	18	7	32	6	4
Massachusetts	5	4	4	11	6	7	6	7	5	3
Michigan	16	8	7	30	14	13	10	18	7	6
Minnesota	11	6	6	23	11	14	9	25	9	4
Mississippi	25	18	18	39	31	31	21	39	24	15
Missouri	18	13	13	36	26	26	18	25	18	11
Montana	23	12	13	40	23	19			30	11
Nebraska	15	12	12	35	29	27	14	32	17	9
Nevada	27	15	15	47	26	25	13	25	12	10
New Hampshire	16	9	8	34	20	18			13	8
New Jersey	19	11	11	43	25	25	11	26	8	6
New Mexico	28	13	13	43	20	19		15	22	8
New York	15	9	8	26	15	13	9	16	9	5
North Carolina	23	15	16	42	29	31	16	44	14	12
North Dakota	14	9	9	28	20	21			26	7
Ohio	16	8	8	30	14	15	11	22	8	7
Oklahoma	25	20	20	42	35	35	23	38	30	15
Oregon	21	9	10	37	15	16		25	9	8
Pennsylvania	14	8	7	29	15	14	9	17	9	6
Rhode Island	17	6	6	32	10	13		17	11	4
South Carolina	23	15	16	39	27	30	18	43	16	13
South Dakota	17	12	13	36	26	28			40	9
Tennessee	20	14	14	37	24	25	15	43	13	12
Texas	30	23	24	52	42	43	20	37	15	14
Utah	18	12	12	35	24	25		33	12	8
Vermont	10	5	6	14	7	7				6
Virginia	17	12	12	38	29	27	15	31	10	9
Washington	20	9	9	40	16	17	10	27	7	6
West Virginia	20	8	9	35	11	12	9			9
Wisconsin	13	7	7	26	15	14	10	20	11	5
	18	15		37	26			34		14
Wyoming	18	13	16	3/	20	33		34	18	14

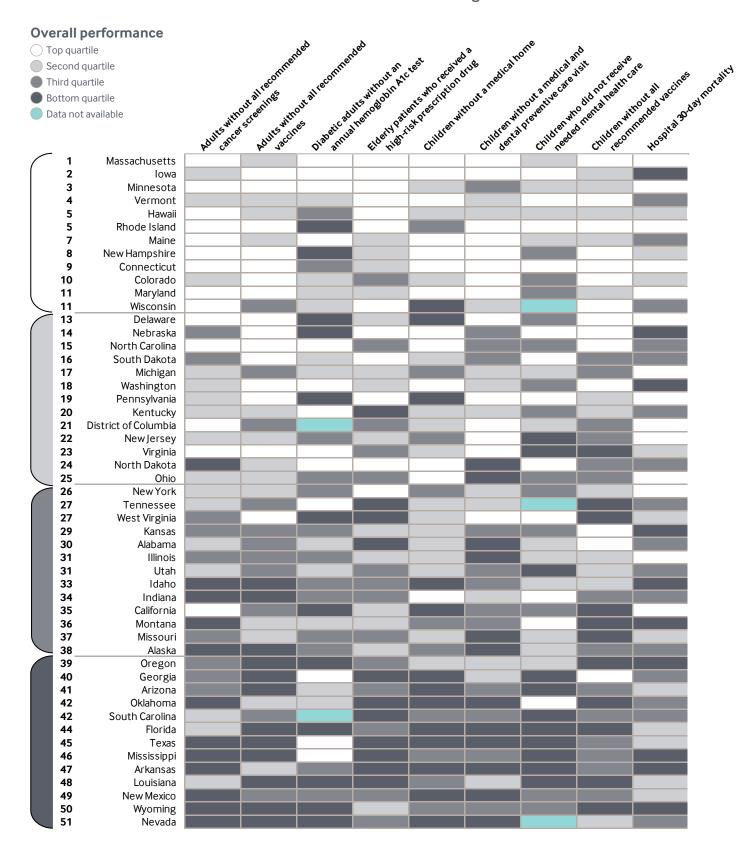
 $Notes: --- Indicates\ that\ estimates\ are\ not\ available.$

APPENDIX C4. Adults Ages 18-64 Who Went Without Care Because of Cost by Income and by Race/Ethnicity

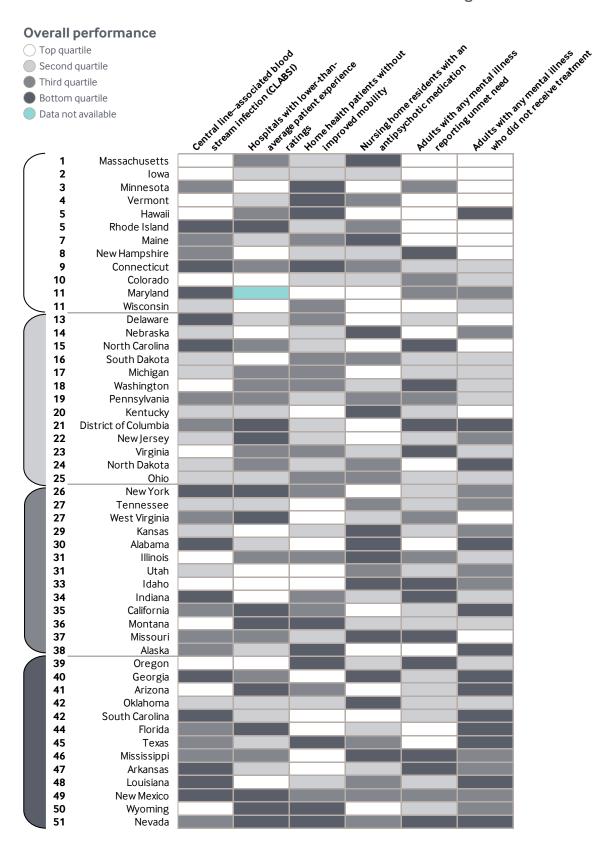
	Total	Population		(<2	00% FPL)		(2017 only)			
	2013	2016	2017	2013	2016	2017	Black	Hispanic	Other	White
United States	19%	15%	16%	33%	26%	26%	19%	22%	14%	13%
Alabama	19	19	19	37	38	32	21	12	27	19
Alaska	16	14	13	26	31	13		16	9	14
Arizona	20	16	17	37	25	21	16	21	14	14
Arkansas	25	18	20	39	26	28	20	36	21	17
California	18	13	14	29	21	21	16	18	8	11
Colorado	17	14	15	33	23	24	10	21	16	13
Connecticut	14	11	12	24	17	21	12	21	13	10
Delaware	14	13	15	26	23	22	14	26	8	14
District of Columbia	12	10	11	17	21	12	12	21	14	7
Florida	26	21	21	41	35	31	20	24	18	18
Georgia	23	19	19	39	35	33	20	24	12	18
Hawaii	10	8	9	18	18	18	9	11	9	9
ldaho	19	17	16	34	32	29		21	22	15
Illinois	16	13	14	31	20	22	15	19	12	12
Indiana	18	15	15	36	27	26	18	24	21	13
lowa	12	9	9	24	18	16	18	19	11	8
Kansas	16	14	14	34	30	31	23	20	14	13
Kentucky	22	14	14	39	21	19	11	24	18	14
Louisiana	23	20	20	40	37	28	23	32	21	17
Maine	12	13	15	16	22	19		30	32	14
Maryland	15	12	12	30	24	25	12	29	13	8
Massachusetts	10	10	10	19	16	15	12	18	9	9
Michigan	18	14	13	29	20	19	18	18	15	12
Minnesota	12	11	11	24	18	18	20	22	12	10
Mississippi	25	22	21	38	37	33	24		22	19
Missouri	19	16	16	36	33	30	25	20	17	15
Montana	16	14	13	30	22	21		11	16	13
Nebraska	15	14	14	31	30	28	23	21	19	12
Nevada	20	19	20	32	29	34	13	29	17	16
New Hampshire	14	12	11	34	23	21		11	13	11
New Jersey	18	14	16	33	25	24	19	27	12	11
New Mexico	21	14	16	32	20	19		19	12	12
New York	17	13	13	28	18	20	14	20	14	10
North Carolina	21	19	18	40	37	35	21	30	19	16
North Dakota	8	9	9	19	17	21	19	21	17	7
Ohio	17	13	13	28	21	17	17	19	21	11
Oklahoma	20	18	20	38	33	32	25	24	19	19
Oregon	22	13	15	41	20	25	13	17	19	14
Pennsylvania	14	13	12	27	22	18	15	15	13	11
Rhode Island	17	12	14	29	21	22	14	24	19	11
South Carolina	23	19	18	38	32	30	20	26	25	16
South Dakota	11	10	12	23	18	30		22	18	10
Tennessee	21	14	17	33	25	23	21	18	32	15
Texas	22	20	22	39	36	40	27	27	20	18
Utah	17	13	15	33	24	26		21	21	13
Vermont	11	10	10	18	13	11		11	9	10
Virginia	18	15	16	34	38	33	19	26	13	14
Washington	18	12	13	35	19	19	17	21	13	11
West Virginia	22	17	18	38	22	22	16		23	17
Wisconsin	14	12	12	23	20	26	12	17	20	11
Wyoming	17	17	17	33	27	37		25	17	17

Notes: — Indicates that estimates are not available.

APPENDIX D1. Prevention & Treatment: Dimension and Indicator Ranking



APPENDIX D1. Prevention & Treatment: Dimension and Indicator Ranking (continued)



APPENDIX D2. Prevention & Treatment: Dimension Ranking and Indicator Rates

	Adults w recomm cancer so		Adults w recomn vacc	nended	without a	c adults in annual in A1c test	Elderly patients who received a high-risk prescription drug	Children v medica		Children medical a	
	2012	2016	2013	2017	2015	2016	2015	2016	2017	2016	2017
United States	31%	32%	64%	62%	16.9	12.0 *	11	51%	51%	32%	32%
Alabama	32	32	62	62	15.2	10.4 *	15	49	50	32	35 *
Alaska	37	36	67	66	16.4	11.5 *	10	52	52	37	37
Arizona	37	35	69	65 *	15.9	10.7 *	12	55	56	31	34 *
Arkansas	39	36 *	63	61	17.7	13.2 *	13	52	57 *	41	36 *
California	27	28	66	62 *	19.2	15.2 *	10	58	56	39	33 *
Colorado Connecticut	31 25	32 24	58 63	57 56 *	16.6 20.9	10.5 * 13.1 *	11	51 46	49 43 *	29 23	22 * 18 *
Delaware	25	28 *	57	57	20.9	14.8 *	10	48	55 *	23	26
District of Columbia	25	25	64	62	20.6	14.0	11	51	46 *	26	21 *
Florida	32	33	72	65 *	18.9	13.3 *	12	58	59	38	35 *
Georgia	28	34 *	68	65 *	14.8	9.7 *	14	51	54 *	28	29
Hawaii	30	26 *	57	59	15.2	11.8 *	5	50	49	31	29
Idaho	39	40	68	66	16.4	12.8 *	11	50	55 *	33	32
Illinois	33	34	66	64	17.8	12.2 *	9	50	48	28	38 *
Indiana	37	37	67	65	18.4	12.2 *	11	47	45	32	31
lowa	29	31	56	56	15.1	9.1 *	8	42	45 *	30	24 *
Kansas	32	34	60	63 *	16.2	12.0 *	10	49	50	36	32 *
Kentucky	35	33	62	61	14.4	8.9 *	14	46	48	33	31
Louisiana	33	32	61	67 *	17.0	18.7	16	51	53	32	31
Maine	27	29	59	58	16.8	9.2 *	10	46	42 *	22	23
Maryland	25	29 *	58	55 *	16.4	10.8 *	10	42	45 *	26	24
Massachusetts	21 29	26 * 31	53 67	59 * 64 *	16.3 15.5	10.0 * 10.1 *	7	42 50	40 51	22 33	21 31
Michigan Minnesota	27	29	56	56	11.0	5.6 *	7	45	48 *	35	34
Mississippi	37	36	65	66	14.8	9.3 *	16	49	52 *	41	32 *
Missouri	34	35	60	58	17.9	13.2 *	11	51	48 *	38	42 *
Montana	40	38	63	61	16.0	10.3 *	9	47	52 *	32	33
Nebraska	34	35	57	55	18.5	17.2	8	45	41 *	35	34
Nevada	37	36	71	69	19.6	15.6 *	12	66	64	38	41 *
New Hampshire	25	27	61	57 *	20.9	14.8 *	9	42	42	21	23
New Jersey	31	31	66	61 *	18.6	13.2 *	9	50	52	26	24
New Mexico	37	40 *	64	62	19.6	12.2 *	11	55	58 *	28	35 *
New York	28	31 *	65	61 *	21.2	12.9 *	8	48	51 *	31	27 *
North Carolina	29	28	56	57	13.4	7.5 *	12	46	45	27	33 *
North Dakota	36	36	61	60	14.6	9.2 *	8	49	45 *	41	36 *
Ohio	33	33	62	61	18.4	12.0 *	11	48	45 *	32	36 *
Oklahoma	39	40	59	58	15.8	10.1 *	16	55	54	36	43 *
Oregon Pennsylvania	33	34 33	67 63	65 57 *	16.0 18.9	14.3 14.2 *	11 8	49 45	47 58 *	33 26	30 * 25
Rhode Island	24	26	58	55 *	23.7	16.2 *	8	45 50	58 **	28	23 *
South Carolina	32	33	63	62	23.7	10.2	15	49	51	25	33 *
South Dakota	32	34	53	54	13.2	10.3 *	7	46	50 *	39	34 *
Tennessee	33	33	58	64 *	13.5	9.0 *	14	46	47	34	28 *
Texas	34	37 *	66	65	15.0	9.6 *	13	59	56 *	36	37
Utah	32	33	65	64	15.2	10.9 *	11	43	50 *	34	32
Vermont	27	30 *	58	59	19.3	10.4 *	8	40	39	20	27 *
Virginia	28	29	59	57	14.2	10.0 *	11	51	46 *	28	26
Washington	31	32	61	57 *	12.7	7.1 *	10	52	44 *	27	28
West Virginia	34	35	58	57	19.6	15.1 *	13	48	50	28	26
Wisconsin	29	28	65	63	13.7	10.5 *	8	48	54 *	31	31
Wyoming	39	40	68	65 *	22.4	22.5	10	48	53 *	34	33
Change											
States Improved		2		14		45			10		15
States Worsened		8		4		0			16		11

 $Notes: \verb§*Denotes a change of at least 0.5 standard deviations. — Indicates that estimates are not available.$

APPENDIX D2. Prevention & Treatment: Dimension Ranking and Indicator Rates (continued)

	Children w receive mental he	needed	recomi	without all mended cines		al 30-day tality 07/2014		Central line—associated bloodstream infections (CLABSI), Standardized Infection Ratio		Hospitals with lower-than- average patient experience ratings	Home health patients without improved mobility	
	2016	2017	2012	2016	-	-		2015	2016	2017	2013	2017
United States	18%	22%	32	29 *	13.2%	13.9%	*	0.99	0.89 *	45%	39%	25% *
Alabama	19	12 *	32	29 *	13.7	14.3	*	1.41	1.12 *	38	35	20 *
Alaska	24	11 *	40	31 *	13.7	14.4	*	1.09	0.87 *	29	51	35 *
Arizona	22	25	32	30	13.1	13.7	*	0.85	0.76	64	42	27 *
Arkansas	15	31 *	34	32	14.1	15.1	*	1.10	1.00	34	39	21 *
California	16	24 *	33	35	13.0	13.4	*	0.97	0.94	58	41	27 *
Colorado	27	16 *	28	24 *	12.9	13.8	*	0.90	0.72 *	12	38	25 *
Connecticut	15	6 *	23	24	13.0	13.4	*	1.16	1.03 *	52	41	29 *
Delaware	9	23 *	27	22 *	12.2	13.0	*	1.05	0.97	33	42	27 *
District of Columbia	16	11 *	27	32 *	12.4	13.2	*	1.16	0.95 * 0.91 *	100	40	24 *
Florida Georgia	18 34	33 * 31	31 25	33 23	13.1 13.4	13.8 14.1	*	1.10 1.17	1.14	63 42	35 39	22 * 23 *
Hawaii	23	11 *	20	25 *	13.4	13.8	*	0.32	0.53 *	45	45	32 *
Idaho	13	13	37	26 *	13.4	14.5	*	0.64	0.39 *	9	37	23 *
Illinois	15	13	31	29	12.9	13.6	*	0.82	0.70 *	44	39	27 *
Indiana	18	5 *	39	31 *	13.4	14.1	*	1.12	0.99 *	21	41	27 *
lowa	7	9	25	27	13.4	14.8	*	0.93	0.64 *	32	38	25 *
Kansas	14	19 *	35	24 *	13.0	14.6	*	0.80	0.85	14	39	24 *
Kentucky	18	17	32	25 *	13.3	14.3	*	1.07	0.77 *	38	36	22 *
Louisiana	25	26	32	33	13.3	13.7	*	1.43	1.13 *	20	40	25 *
Maine	17	10 *	27	29	13.4	14.1	*	0.80	0.93 *	41	38	26 *
Maryland	11	20 *	33	26 *	12.8	13.6	*	1.12	1.10		37	22 *
Massachusetts	13	11	26	15 *	12.4	12.8	*	0.75	0.76	47	37	24 *
Michigan	7	11	30	30	13.0	13.6	*	0.94	0.78 *	42	39	26 *
Minnesota	9	13	34	26 *	12.8	13.6	*	0.78	0.86	23	43	29 *
Mississippi	22	28 *	23	30 *	13.4	14.6	^	1.11	0.92 *	43	36	20 *
Missouri Montana	22	12 * 8	36 34	33 * 36	13.2 13.2	14.0 14.6	*	1.06 0.93	0.93 * 0.69 *	45 56	38 44	24 * 30 *
Nebraska	20	4 *	27	19 *	13.2	14.8	*	1.16	0.78 *	21	41	25 *
Nevada	26		35	28 *	13.8	14.2	*	0.95	0.76	79	40	28 *
New Hampshire	5	14 *	20	22	13.3	13.7	*	1.04	0.96	15	41	25 *
New Jersey	23	41 *	29	30	12.7	13.1	*	1.13	0.82 *	70	37	25 *
New Mexico	9	18 *	28	32 *	13.3	14.0	*	1.00	1.05	77	41	27 *
New York	17	24 *	36	28 *	13.1	13.6	*	1.07	0.98	76	41	26 *
North Carolina	30	16 *	25	22 *	13.7	14.3	*	1.06	1.04	44	39	24 *
North Dakota	10	7	28	32 *	12.7	14.2	*	0.79	0.84	50	44	24 *
Ohio	15	23 *	33	32	12.9	13.3	*	0.88	0.84	38	39	26 *
Oklahoma	11	9	39	33 *	13.2	14.3	*	0.95	0.82 *	40	40	24 *
Oregon	10	10	33	42 *	13.9	14.7	*	0.80	0.68 *	21	44	29 *
Pennsylvania	13	6 *	32	26 *	12.9	13.6	*	0.94	0.95	50	37	24 *
Rhode Island	16	4 *	28	24 *	13.2	13.0		1.07	1.03	55	37	25 *
South Carolina	19	48 *	28	30	13.5	14.2	*	1.10	0.96 *	37	36	23 *
South Dakota	17	9	36	30	13.1	14.4	*	0.65	0.77 *	17	42	27 *
Tennessee	15	 40 *	27 35	33 * 31 *	13.5	14.3 13.7	*	0.90 0.97	0.78 * 0.87 *	41 33	37 44	21 * 30 *
Texas Utah	24 18	38 *	27	28	13.0 13.5	14.4	*	0.97	0.84	26	34	21 *
Vermont	16	9 *	37	23 *	13.8	14.4	*	1.13	0.68 *	33	40	28 *
Virginia	14	35 *	30	34 *	13.5	13.8	*	0.92	0.68 *	51	37	26 *
Washington	20	24	35	24 *	13.9	14.6	*	0.92	0.00	48	44	26 *
West Virginia	24	9 *	39	35 *	13.2	14.0	*	0.74	0.86 *	68	37	21 *
Wisconsin	9		25	21 *	13.5	14.2	*	0.77	0.80	18	41	26 *
Wyoming	7	24 *	33	37 *	13.0	14.8	*	0.67	0.36 *	62	42	31 *
Change												
States Improved		16		25		0	٦		27			51
States Worsened		17		9		50			4			0

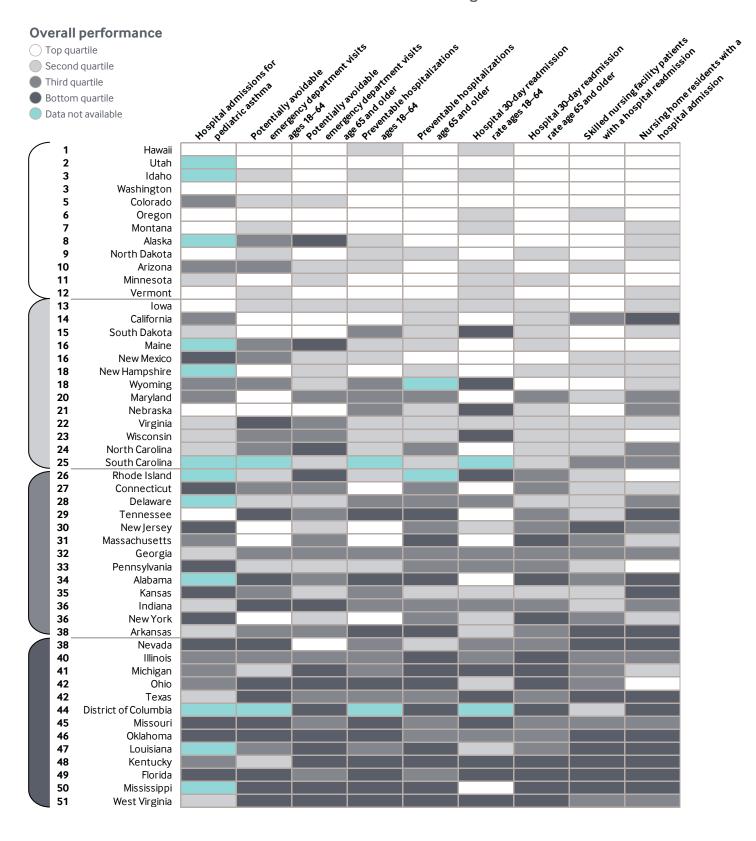
 $Notes: \verb§*Denotes a change of at least 0.5 standard deviations. — Indicates that estimates are not available.$

APPENDIX D2. Prevention & Treatment: Dimension Ranking and Indicator Rates (continued)

	Nursing residents antipsy medic	with an chotic	Adults with any mental illness reporting unmet need		mental i did no	with any Iness who t receive tment
	2013	2017	2009-11 2014-16			2014-16
United States	21%	15% *	21%	21%	59%	56% *
Alabama	22	19 *	21	17 *	59	59
Alaska	13	12	22	18 *	67	62 *
Arizona	20	14 *	30	21 *	59	63 *
Arkansas	24	15 *	28	23 *	58	57
California	17	11 * 15 *	21	20	64	62
Colorado Connecticut	17 21	15 * 16 *	23 25	22 21 *	55 58	54 54 *
Delaware	17	14 *	16	21 *	58	48 *
District of Columbia	16	11 *	24	26 *	65	58 *
Florida	22	15 *	20	19	63	61
Georgia	22	19 *	20	21	59	59
Hawaii	11	7 *	14	16 *	73	68 *
Idaho	20	18 *	23	25 *	54	56
Illinois	25	19 *	22	22	58	54 *
Indiana	21	15 *	23	25 *	57	55
lowa	20	15 * 19 *	18	19 21 *	55	46 *
Kansas Kentucky	22 22	19 *	30 19	20	49 55	56 * 51 *
Louisiana	27	17 *	23	20 *	65	61 *
Maine	21	18 *	16	17	47	42 *
Maryland	16	13 *	20	22 *	57	56
Massachusetts	22	18 *	21	19 *	49	49
Michigan	15	13 *	23	20 *	60	53 *
Minnesota	16	14 *	25	22 *	57	43 *
Mississippi	25	19 *	21	23 *	67	57 *
Missouri	24	19 *	27	24 *	56	52 *
Montana	18 23	15 * 18 *	24 16	21 * 17	51 53	54 * 56 *
Nebraska Nevada	23	16 *	22	26 *	68	63 *
New Hampshire	21	15 *	24	25	57	46 *
New Jersey	16	11 *	15	20 *	68	57 *
New Mexico	19	16 *	25	22 *	55	56
New York	19	12 *	17	20 *	61	57 *
North Carolina	16	13 *	22	24 *	59	51 *
North Dakota	19	17 *	17	19 *	55	58 *
Ohio	23	16 *	20	20	54	53
Oklahoma	23	20 * 15 *	18	20 *	60	55 *
Oregon Pennsylvania	18 19	15 * 16 *	26 21	25 22	56 54	55 54
Rhode Island	18	16 *	27	17 *	47	48
South Carolina	17	14 *	22	21	54	60 *
South Dakota	19	17 *	17	20 *	53	53
Tennessee	24	17 *	16	21 *	57	57
Texas	27	16 *	20	17 *	65	62 *
Utah	25	16 *	23	21 *	57	57
Vermont	20	17 *	24	19 *	45	46
Virginia	20	15 *	22	24 *	53	54
Washington West Virginia	19 18	15 * 15 *	26 26	24 * 22 *	53 48	54 52 *
Wisconsin	16	13 *	20	18 *	60	53 *
Wyoming	18	13 *	17	21 *	61	56 *
Change			.,			55
States Improved		50		20		23
States Worsened		0		17		7
		Ū		17		,

 $Notes: \verb§*Denotes a change of at least 0.5 standard deviations. — Indicates that estimates are not available.$

APPENDIX E1. Prevention & Treatment: Dimension and Indicator Ranking



APPENDIX E1. Prevention & Treatment: Dimension and Indicator Ranking (continued)

○ T○ S○ T○ B	op qu econd hird q ottom	performance artile d quartile uartile n quartile ot available	lone neath	Patentswith a darkswith a dark	nd of the state of	portspied the performance of the	ending per
_	_		No No	br. 10.	E. 14,	S. W. D.	I
	1 2	Hawaii					
	3	Utah Idaho					
	3	Washington					
	5	Colorado					
	6	Oregon					
	7	Montana					
	8	Alaska					
	9	North Dakota					
	10	Arizona					
	11	Minnesota					
\rightarrow	12_	Vermont					
	13	lowa					
	14 15	California South Dakota					
	16	Maine					
	16	New Mexico					
	18	New Hampshire					
	18	Wyoming					
	20	Maryland					
	21	Nebraska					
	22	Virginia					
	23	Wisconsin					
	24	North Carolina					
\geq	25_	South Carolina					
	26 27	Rhode Island Connecticut					
	28	Delaware					
	29	Tennessee					
	30	NewJersey					
	31	Massachusetts					
	32	Georgia					
	33	Pennsylvania					
	34	Alabama					
	35	Kansas					
	36	Indiana					
	36 38	New York Arkansas					
	38	Nevada					
	40	Illinois					
	41	Michigan					
	42	Ohio					
	42	Texas					
	44	District of Columbia					
	45	Missouri					
	46 47	Oklahoma					
	47 48	Louisiana					
	48 49	Kentucky Florida					
	50	Mississippi					
	51	West Virginia					
		0					

APPENDIX E2. Avoidable Hospital Use & Cost: Dimension Ranking and Indicator Rates

	Hospital admissions for pediatric asthma (rate per 100,000)		emergency department visits ages 18–64 (rate per 1,000)			Potentially emerg department 65 and olde 1,00	gency t visits age er (rate per	Preventable hospitalizations ages 18–64 (rate per 1,000)		
	2012	2015	2015	2016		2012	2015	2015	2016	
United States	142.9	87.2 *	159.0	142.2 *	k	187.8	196.9	4.6	5.3 *	
Alabama			171.5	157.4	*	191.7	199.5	6.0	7.9 *	
Alaska	61.9		166.0	1 17.0	*	204.7	212.9	4.4	6.5 *	
Arizona	124.7	84.4 *	175.7	1 10.0	*	177.9	191.0 *	4.6	6.4 *	
Arkansas	80.6	69.0	157.1	1 1 1.0	*	185.0	200.2 *	5.3	7.3 *	
California Colorado	95.8 129.1	86.8 100.4 *	130.0 147.4	117.7	*	166.9 172.7	173.8 177.4	3.6 3.5	5.9 * 5.8 *	
Connecticut	136.3	100.4 *	162.9	100.1	*	189.3	207.9 *	3.9	6.2 *	
Delaware	130.3	103.4	150.6	172.0	*	159.0	179.0 *	5.2	7.1 *	
District of Columbia					۱	247.9	242.2			
Florida	143.1	120.6 *	177.6	163.8	*	178.9	199.0 *	5.7	7.8 *	
Georgia	96.6	58.1 *	164.0	149.9	*	200.6	197.1	5.1	7.2 *	
Hawaii	68.6	50.1	137.6	122.3	*	130.8	138.3	4.3	6.5 *	
Idaho			133.5	137.9	1	162.1	172.9	3.6	6.4 *	
Illinois	119.5	85.3 *	154.4	1 12.1	*	192.0	199.3	4.8	7.0 *	
Indiana	102.4	62.5 *	171.5	131.7	*	199.9	209.7	5.6	7.2 *	
lowa	71.2	46.8 *	151.1	15 1.0	*	183.6	186.2	4.4	6.5 *	
Kansas	160.4	103.8 *	160.8	1 13.0	*	172.9	188.7 *	5.3	7.2 *	
Kentucky	151.8 203.0	85.3 *	151.2 173.9	130.7	*	218.7 236.3	236.3 * 238.3	5.4 5.6	7.6 * 6.9 *	
Louisiana Maine	76.3		173.9	130.5	*	230.3	238.3	3.8	6.4 *	
Maryland	136.9	93.3 *	148.5	130.2	*	192.9	193.6	4.7	7.1 *	
Massachusetts	141.1	97.7 *	142,1	131.7	*	208.9	207.9	4.0	6.1 *	
Michigan	94.0	94.2	159.4		*	214.2	222.9	4.9	7.1 *	
Minnesota	82.3	53.2 *	139.2		*	180.5	185.7	3.8	6.2 *	
Mississippi			182.6		*	230.9	246.2 *	6.1	7.4 *	
Missouri	161.2	110.1 *	203.4	186.8	*	196.7	209.4 *	5.1	7.3 *	
Montana	76.6	44.3 *	144.6	136.4	1	158.5	163.3	4.1	6.2 *	
Nebraska	82.1	42.0 *	140.3	131.7	1	152.6	157.5	4.7	6.9 *	
Nevada	112.3	109.7	186.7	184.9		165.4	164.3	4.9	7.1 *	
New Hampshire			155.5	151.7	*	192.2	183.1	3.9	6.3 *	
New Jersey	162.7	112.1 *	145.3	123.0	*	170.3	179.6	4.6	0.5	
New Mexico	 221 E	158.3 183.4 *	149.2	143.5	*	169.9 172.6	193.5 * 178.8	3.9	6.6 *	
New York North Carolina	231.5 113.3	77.7 *	155.0 159.2	122.1	*	172.0	217.1 *	4.7 4.4	6.2 * 6.5 *	
North Dakota		44.4	161.7	1 12.5	*	187.4	168.2 *	3.9	6.5 *	
Ohio	127.9	102.3 *	177.0	158.3	*	218.7	230.2	5.3	7.3 *	
Oklahoma	189.1	109.1 *	172.3		*	211.1	236.5 *	5.2	7.3 *	
Oregon	41.0	46.3	137.1		*	161.9	166.7	3.5	6.1 *	
Pennsylvania		107.1	158.6	140.3	*	186.7	193.5	4.6	6.7 *	
Rhode Island	149.0		157.9	135.9	*	187.7	212.2 *	4.2	6.6 *	
South Carolina	133.0				1	176.4	188.8			
South Dakota	76.2	62.2	143.3	125.9	*	168.3	155.1 *	4.2	6.8 *	
Tennessee	72.9	49.9 *	168.3	102.0	*	199.8	204.9	5.7	7.3 *	
Texas	114.3	67.6 *	175.6	137.7	*	185.6	198.3 *	5.3	7.2 *	
Utah	93.4		131.9	113.7	*	146.9	151.4	4.0	6.3 *	
Vermont Virginia	27.6 100.0	21.7 56.0 *	163.5 168.4	137.1	*	186.6 193.2	173.5 * 195.3	4.1 4.6	6.3 * 6.7 *	
Washington	83.6	52.5 *	137.5	130.9	*	157.3	195.3	3.3	5.6 *	
West Virginia	98.1	56.8 *	181.7	123.0	*	226.5	250.8 *	5.5	7.9 *	
Wisconsin	86.0	62.1 *	163.8		*	182.1	193.8	4.3	6.7 *	
Wyoming	122.7	94.3 *	165.8	144.5	*	168.9	177.9	5.0	6.9 *	
Change					ı					
States Improved		28		44	T		4		0	
States Worsened		0		0			16		49	
Cated World		<u> </u>		J			10		17	

Notes: *Denotes a change of at least 0.5 standard deviations. **Denotes a change of 1.0 standard deviation or more. Spending estimates exclude prescription drug costs and are adjusted for regional wage differences; Medicare estimates reflect only the age 65+ Medicare fee-for-service population. — Indicates that estimates are not available.

APPENDIX E2. Avoidable Hospital Use & Cost: Dimension Ranking and Indicator Rates (continued)

				_		_		_		_
	Prever	ntahla			Hospita	I 30-day				
	hospitaliza		Hospita	I 30-day	readmissio		Skilled nurs	sing facility	Nursin	g home
	65 and olde			n rate ages	65 and olde			Skilled nursing facility patients with a		ts with a
	1,00		18–64 (rate		1,0		hospital readmission		hospital admission	
	1,0	<i>50)</i>	10 01 (1010	, pci 1,000,	1,0	<i></i>	nospitario	aaiiiissioii	поэрпага	141111331011
	2013	2017	2015	2016	2013	2017	2012	2016	2012	2016
United States	47.7	43.9	2.9	3.1	43.5	41.0	20%	19%	17%	15%
Alabama	55.8	56.4	1.2	2.5 *	43.9	45.5	22	20 *	21	19
Alaska		25.9	2.6	3.0 *	26.1	24.1		11		13
Arizona	32.8	28.3	3.3	3.2	33.2	29.7	20	19	9	7
Arkansas	55.0	50.3	3.0	3.1	44.7	43.9	25	22 *	26	23 *
California	37.1	35.9	2.4	3.0 *	38.0	37.9	22	20 *	20	19 9
Colorado	28.7	25.1	2.3	2.9 * 2.9 *	26.5	25.2	16 20	15	10	13 *
Connecticut Delaware	48.1 47.9	43.4 44.1	2.4 2.7	3.3 *	46.0 40.1	43.4 36.6	20 20	19 19	16 19	16 *
District of Columbia	52.4	51.6	Z.7	J.J	56.0	48.3 *		19		19
Florida	49.2	47.8	3.9	3.6	49.2	48.1	22	21	23	21
Georgia	48.4	45.0	2.9	3.3 *	40.9	40.1	21	20	19	16 *
Hawaii	24.3	21.7	2.8	3.1 *	21.4	19.7		13		5
Idaho	27.7	25.0	2.5	3.1 *	24.8	23.2	14	13	11	11
Illinois	50.9	50.0	3.2	3.3	49.6	47.2	23	20 *	22	17 *
Indiana	54.6	48.6 *	3.1	3.3	44.2	40.4	20	18 *	19	17
lowa	42.4	37.6	2.7	3.1 *	34.0	31.1	17	16	15	14
Kansas	46.2	40.4 *	2.9	3.2 *	38.6	37.7	19	17 *	20	19
Kentucky	72.4	60.1 *	3.0	3.4 *	57.2	50.7 *	22	21	24	21 *
Louisiana	66.8	57.7 *	3.0	3.2	50.7	45.1 *	26	24 *	30	26 *
Maine	43.8	38.2 *	2.1	2.7 *	36.1	34.7	17	16	12	12
Maryland	48.4	41.9 *	2.6	3.0 *	52.2	42.4 *	22	19 *	17	16
Massachusetts	53.1	52.1	2.8	3.0	45.6	48.3	19	20	14	13
Michigan	53.7	52.0	3.4	3.5	54.8	51.5	23	20 *	18	15 *
Minnesota	36.9	35.3	3.1	3.2	36.9	37.2	17	16	7	7
Mississippi	66.2	58.2 *	2.9	3.0	50.4	47.4	24	22 *	29	28
Missouri	50.7	47.2	3.5	3.6	45.9	44.5	22	20 *	20	17 *
Montana	35.6	30.5	3.3	3.2	28.5	25.9	13	14	12	13
Nebraska	42.1	36.5 *	3.0	3.5 *	33.4	33.4	16	15	16	16
Nevada	37.7	38.9	3.6	3.3 *	36.9	40.8	23	24	20	20
New Hampshire	42.4 50.1	40.8 46.0	2.3 3.2	2.9 * 3.1	33.7 49.3	35.4 45.1	16 24	17 21 *	14 21	13 18 *
New Jersey New Mexico	37.5	30.1 *	2.9	3.0	30.9	28.6	18	18	13	13
New York	49.0	44.5	5.5	3.1 *	51.3	47.0	23	20 *	17	13 *
North Carolina	44.9	44.6	2.6	3.0 *	39.1	37.8	20	19	18	16
North Dakota		40.8	2.7	3.0	35.4	34.4	16	15	15	14
Ohio	58.4	50.6 *	3.4	3.2	52.7	46.0 *		20	15	12 *
Oklahoma	53.5	48.9	3.2	3.3	43.2	41.8	23	22	24	23
Oregon	30.8	28.0	2.7	3.1 *	26.2	25.6	17	17	8	9
Pennsylvania	52.6	48.4	3.1	3.3	48.8	44.9	21	19 *	16	12 *
Rhode Island	47.1		3.4	3.4	43.8	45.1	21	19 *	10	8
South Carolina	42.6	39.5			36.9	33.7	20	20	20	18
South Dakota	43.0	38.5	3.4	3.6	31.7	30.7	15	15	15	15
Tennessee	55.8	50.9	1.9	2.8 *	46.1	42.7	21	19 *	22	19 *
Texas	50.6	46.0	3.4	3.5	41.5	41.1	22	21	23	20 *
Utah	26.9	23.3	1.4	2.4 *	25.3	22.6	14	13	11	10
Vermont	39.5	34.8	3.2	3.2	29.3	30.6	16	16	15	15
Virginia	44.8	41.0	2.5	3.2 *	42.7	37.9 *	21	19 *	20	15 *
Washington	31.5	28.5	2.2	2.7 *	30.6	28.7	17	15 *	13	12
West Virginia	67.0	59.5 *	3.0	3.6 *	55.8	51.5	23	20 *	19	16 *
Wisconsin	39.9	36.6	3.2	3.5	36.6	33.5	17	17	12	11
Wyoming			2.9	3.4 *	29.5	26.7	15	15	13	15
Change										
States Improved		11		2		6		19		17
States Worsened		0		24		0		0		0

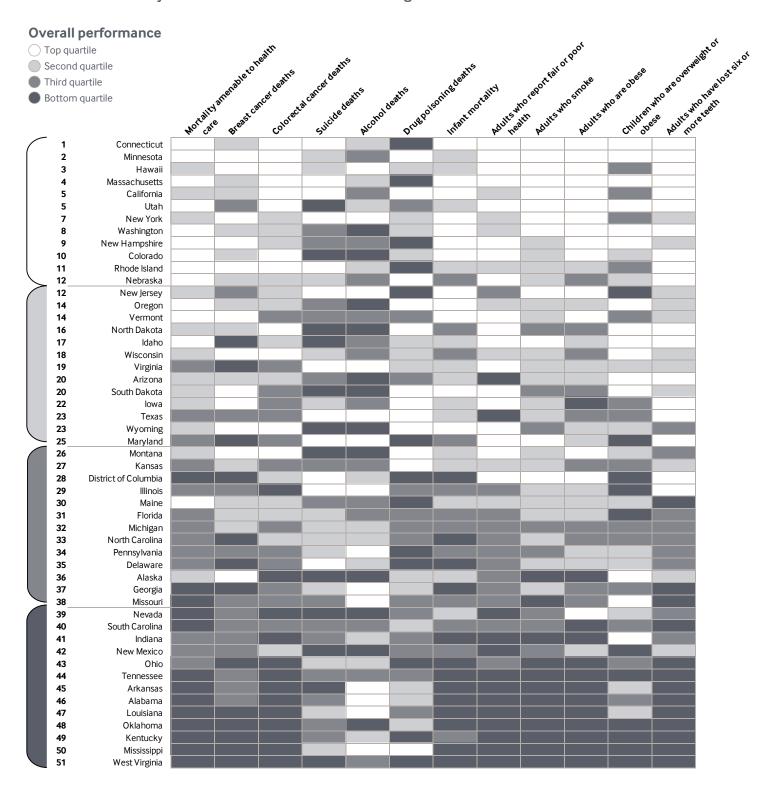
Notes: *Denotes a change of at least 0.5 standard deviations. **Denotes a change of 1.0 standard deviation or more. Spending estimates exclude prescription drug costs and are adjusted for regional wage differences; Medicare estimates reflect only the age 65+ Medicare fee-for-service population. — Indicates that estimates are not available.

APPENDIX E2. Avoidable Hospital Use & Cost: Dimension Ranking and Indicator Rates (continued)

	Home heal	th patients	Adults	with	Employer	-sponsored		
	with a h		inappropri	ate lower-		e spending	Medicare:	spending per
	admi		back in			nrollee		eficiary
	aum	331011	Dack III	iaging	per e	Illonee	Dene	riciary
	2042	2047	2045	2047	2042	2046	2042	2017
	2013	2017	2015	2016	2013	2016	2013	2017
United States	16%	16%	71%	69%	\$4,697	\$4,882	\$9,081	\$9,534
Alabama	17	17	59	58	3,706	3,867	9,479	10,463 *
Alaska	14	14	75	69 *	7,186	8,042 *		6,626 *
Arizona	15	15	68	67	4,453	4,624	8,197	8,751
Arkansas	17	17	68	65 *	3,117	3,623 *	8,798	9,799 *
California	15	14 *	75	74	4,915	5,307 *	8,564	9,116
Colorado	14	15 *	74	70 *	4,625	4,736	7,628	8,158
Connecticut	16	16	67	68	5,067	5,259	9,255	9,760
Delaware	16	16	72	69 *	4,509	4,700	8,792	9,205
District of Columbia	18	15 *			3,548		8,981	9,408
Florida	15	15	65	66	4,748	5,044	10,812	10,953
Georgia	16	17 *	65	64	4,951	4,786	9,014	9,484
Hawaii	14	15 *	77	71 *	3,460	3,299	5,674	6,195
Idaho	14	14	78	69 *	4,906	5,282	7,526	8,020
Illinois	16	16	70	68	4,575	4,904	9,402	9,850
Indiana	16	16	68	66	4,955	5,510 *	9,251	9,640
lowa	16	16	77	76	3,784	3,851	7,711	8,335 *
Kansas	17	17	75	72 *	4,079	4,391	8,786	9,612 *
Kentucky	18	17 *	67	67	4,393	4,134	9,553	9,900
Louisiana	16	16	61	61	4,404	4,330	10,991	11,257
Maine	16	16	77	73 *	4,661	4,998	7,886	8,604 *
Maryland	17	15 *	66	67	3,683	3,819	8,869	9,395
Massachusetts	16	17 *	73	71	4,659	4,603	9,165	9,545
Michigan	16	16	67	68	3,903	3,848	9,722	10,001
Minnesota	16	16	79	73 *	4,483	4,814	7,644	8,421 *
Mississippi	17	17	64	64	3,982	3,255 *	10,000	10,819 *
Missouri	16	16	71	65 *	4,266	4,563	8,878	9,528 *
Montana	15	16 *	77	69 *	4,553	4,847	6,884	7,552 *
Nebraska	16	16	76	75	4,507	5,215 *	8,203	9,115 *
Nevada	15	16 *	68	62 *	4,022	4,227	8,648	9,203
New Hampshire	17	18 *	71	68 *	5,245	5,725 *	7,02 1	8,352
New Jersey	16	16	68	68	4,771	5,063	9,849	10,208
New Mexico	15	15	74	73	4,407	4,995 *	7,001	7,729 *
New York	17	16 *	70	70	5,279	6,053 *	9,239	9,933 *
North Carolina	16	16	66	65	4,497	4,764	8,422	9,003 *
North Dakota	15	15	84	72 *	4,306	4,786 *	1,777	8,494 *
Ohio	16	16	68	67	4,464	4,696	9,757	9,862
Oklahoma	16	15 *	68	66	4,312	4,634	9,391	10,498 *
Oregon	14 17	15 *	80	76 * 70 *	4,300	4,754 *	6,629	7,324 *
Pennsylvania	17	17 17 *	73 70	67 *	4,185	4,246	9,633 8,907	9,753 9,141
Rhode Island South Carolina	16	16			4,018	4,242	8,744	9,141
	17	16 *	 82	 74 *	F 042	 E 1E7		9,002 8,120 *
South Dakota Tennessee	17	17	64	63	5,042 4,081	5,157 3,906	7,380 9,331	9,762
Texas	15	15	65	64	5,110	5,481	10,381	10,848
Utah	14	14	74	70 *	4,322	4,537	8,116	8,654
Vermont	16	16	74	75 *	5,384	5,054	7,030	7,626 *
Virginia	17	16 *	66	66	4,203	4,483	8,294	8,745
Washington	15	15	78	77	4,203	4,629	7,359	7.800
West Virginia	18	17 *	65	66	5,345	5,522	8,792	9,502 *
Wisconsin	16	15 *	73	72	5,871	6,335 *	7,888	8,229
Wyoming	17	15 *	73	69 *	5,779	6,360 *	6,856	7,613 *
	17	13	/3	0)	3,117	0,300	0,000	7,013
Change								
States Improved		11		21		1		0
States Worsened		9		0		12		21

Notes: *Denotes a change of at least 0.5 standard deviations. **Denotes a change of 1.0 standard deviation or more. Spending estimates exclude prescription drug costs and are adjusted for regional wage differences; Medicare estimates reflect only the age 65+ Medicare fee-for-service population. — Indicates that estimates are not available.

APPENDIX F1. Healthy Lives: Dimension and Indicator Ranking



APPENDIX F2. Healthy Lives: Dimension Ranking and Indicator Rates

	Mortality	amenable to								
	health ca	are (rate per 0,000)		cer deaths 100,000)		rate per .000)	Infant mor per 1		Adults who or poor	
	2010-11	2014-15	2013	2017	2013	2017	2012	2016	2013	2017
United States	85.3	84.3	20.8	19.9	14.6	12.9 *	6.0	5.9	16%	17%
Alabama	111.8	110.4	21.4	21.3	17.7	15.2 *	8.9	9.0	20	20
Alaska	72.1	73.2	19.3	16.3 *	16.4	15.4	5.1	5.2	14	17 *
Arizona	73.8	73.5	20.6	18.1 *	13.3	12.2 *	5.8	5.3	16	18 *
Arkansas	115.7	123.6	21.4	20.8	17.7	14.9 *	7.1	8.2 *	22	21
California	73.4	70.8	20.1	19.4	13.2	11.7 *	4.5	4.2	18	16 *
Colorado	62.3	62.7	18.1	19.4 *	12.3	11.1 *	4.6	4.8	12	14 *
Connecticut	63.8	59.1	18.7	18.4	11.9	9.3 *	5.3	4.8	11	12
Delaware District of Columbia	87.7	83.4 127.9	21.3 29.8	22.3 24.3 *	13.8 14.3	12.9 12.6 *	7.6 7.9	7.8 7.2 *	16 11	17 9 *
Florida	130.3	80.9	19.6	18.6	13.7	12.5 *	6.1	6.1	18	17
Georgia	103.0	103.5	22.5	21.8	14.9	14.0	6.2	7.5 *	17	17
Hawaii	70.0	76.1	15.5	15.6	14.2	11.2 *	4.9	6.0 *	12	13
Idaho	65.8	64.9	22.1	21.6	13.4	12.7	5.4	5.8	13	14
Illinois	90.2	87.7	22.2	20.4 *	15.9	14.1 *	6.5	6.4	15	17 *
Indiana	93.1	92.2	21.8	21.0	15.4	14.8	6.7	7.4 *	16	19 *
Iowa	73.0	70.6	18.7	18.0	15.6	12.9 *	5.3	6.0 *	12	13
Kansas	78.2	80.1	18.5	18.5	15.4	13.9 *	6.3	6.0	14	15
Kentucky	106.6	108.6	21.1	21.4	17.1	16.0 *	7.2	6.8	21	23 *
Louisiana	121.2	124.9	23.9	23.6	18.4	15.8 *	8.1	8.0	20	20
Maine	65.3	66.2	18.8	18.6	12.5	12.4	7.0	5.8 *	13	15 *
Maryland	91.8	90.3	21.5	21.6	14.3	12.8 *	6.4	6.5	13	14
Massachusetts	63.7	59.9	18.4	18.5	13.1	10.7 *	4.2	3.9	12	14 *
Michigan	92.5	92.2	21.2	19.3 *	14.8	12.8 *	6.9	6.4	16	17
Minnesota	57.1	54.7	19.6	16.7 *	12.8	11.1 *	5.0	5.1	11	11
Mississippi Missouri	133.2 94.9	142.4 95.7	23.3	25.5 * 21.2	18.8 15.7	16.4 * 13.6 *	8.9 6.6	8.7 6.6	21 17	22 17
Montana	69.3	71.2	22.0 19.9	17.8 *	12.4	11.7	5.9	5.8	17	14
Nebraska	66.1	68.2	21.0	19.5 *	15.2	12.7 *	4.7	6.1 *	12	13
Nevada	93.7	95.5	22.5	21.1 *	16.8	16.2	4.9	5.8 *	16	19 *
New Hampshire	60.2	57.7	19.8	16.3 *	12.8	12.4	4.2	3.7	11	13 *
New Jersey	78.5	73.1	23.2	19.9 *	14.9	12.6 *	4.4	4.0	15	17 *
New Mexico	77.8	80.0	17.3	20.4 *	14.5	12.7 *	6.8	6.2	19	20
New York	82.2	77.1	20.6	17.9 *	14.0	12.2 *	5.0	4.5	16	15
North Carolina	93.9	93.6	20.4	21.5 *	13.3	12.1 *	7.4	7.2	17	17
North Dakota	69.9	73.3	17.9	19.6 *	15.9	10.2 *	6.3	6.4	12	13
Ohio	96.0	94.5	22.9	22.0	16.3	14.3 *	7.5	7.4	16	17
Oklahoma	113.9	126.3 *	22.9	22.4	17.5	16.1 *	7.5	7.5	19	20
Oregon	65.0	62.6	19.9	18.4 *	14.4	11.9 *	5.4	4.7 *	16	16
Pennsylvania	85.8	82.6	21.8	20.9	15.9	13.6 *	7.1	6.2 *	15	17 *
Rhode Island	73.3	68.2	19.4	16.6 *	13.2	10.0 *	6.5	5.6 *	14	16 *
South Carolina	102.8	99.2	21.3	20.7	15.0	12.8 *	7.5	7.0	17	17
South Dakota	75.2	75.8	19.9	17.3 *	16.7	13.3 *	8.3	4.9 *	10	12 *
Tennessee	110.2	113.3	22.4	20.9 *	16.6	14.4 *	7.2	7.4	21	18 *
Texas Utah	93.3 61.9	95.3 60.7	20.2 20.3	19.7 20.1	14.7 10.9	13.0 * 9.8 *	5.8 4.8	5.7 5.4 *	17 11	19 * 12
Vermont	57.9	61.4	18.5	17.4 *	14.3	13.8	4.8	3.5 *	11	13 *
Virginia	83.4	80.2	21.1	21.8	13.8	12.9	6.5	5.9	14	14
Washington	64.1	62.4	20.5	19.3 *	12.8	11.9	5.3	4.3 *	15	15
West Virginia	104.8	106.9	21.6	22.5	19.8	15.2 *	7.2	7.2	22	24 *
Wisconsin	72.1	69.4	20.4	17.4 *	14.1	11.6 *	5.7	6.3	14	16 *
Wyoming	76.0	73.8	20.5	16.5 *	12.6	9.8 *	5.6	5.0	14	14
Change										
States Improved		0		20		39		8		3
States Worsened		1		5		0		8		18

 $Notes: \texttt{*Denotes} \ a \ change \ of \ at \ least \ 0.5 \ standard \ deviations. \ \texttt{**Denotes} \ a \ change \ of \ 1.0 \ standard \ deviation \ or \ more.$

APPENDIX F2. Healthy Lives: Dimension Ranking and Indicator Rates (continued)

					Children	who are	Adults wh	o have lost
	Adults wh	no smoke	Adults who	are obese	overweigh	nt or obese	six or mo	re teeth
	2013	2017	2013	2017	2016	2017	2012	2016
United States	18%	16% *	29%	31% *	31%	31%	10%	10%
Alabama	21	21	33	38 *	35	33	17	15 *
Alaska	23	21 *	28	34 *	26	24	9	10
Arizona	16	16	28	31 *	27	24 *	10	8 *
Arkansas	26	22 *	37	36	34	27 *	17	16
California	12	11	25	25	31	30	7	6
Colorado	18	15 *	22	23	27	28	7	7
Connecticut	16	13 *	25	27 *	30	21 *	8	7
Delaware	20	17 *	31	31	31	29	10	11
District of Columbia	19	14 *	23	23	34	36	7	6
Florida	17	16	27	30 *	37	36	11	12
Georgia	19	17 *	31	32	32	33	13	13
Hawaii	13	13	23	25 *	25	30 *	6	6
Idaho	17	14 *	30	30	26	23 *	9	8
Illinois	18 22	15 * 22	30 32	31 34 *	27 34	34 * 26 *	9 13	8 12
Indiana Iowa	19	17 *	32	38 *	30	33 *	9	8
Kansas	20	17 *	31	33 *	31	32	10	9
Kentucky	26	25	34	35	34	40 *	16	17
Louisiana	24	23	33	37 *	34	28 *	17	14 *
Maine	20	17 *	29	30	28	29	14	14
Maryland	16	14 *	29	31 *	34	36	9	7 *
Massachusetts	17	14 *	24	26 *	27	26	9	8
Michigan	21	19 *	32	32	32	33	11	11
Minnesota	18	14 *	26	28 *	28	25 *	7	7
Mississippi	25	22 *	37	38	37	41 *	18	18
Missouri	22	21	31	33 *	29	26 *	12	14 *
Montana	19	17 *	25	26	23	28 *	11	11
Nebraska	18	15 *	30	33 *	29	29	8	7
Nevada	19	18	27	27	30	28	11	11
New Hampshire	16	16	27	28	24	25	10	10
New Jersey	16	14 *	27	28	32	35 *	9	9
New Mexico	19	18	28	30 *	25	34 *	10	10
New York	17	14 *	25	25	32	31	10	9
North Carolina	20	17 *	30	33 *	31	30	13	12
North Dakota	21	18 *	31	33 *	37	22 *	9	8
Ohio	23	21 *	31	35 *	33	32	13	14
Oklahoma	24	20 *	34	38 *	34	37 *	14	14
Oregon Pennsylvania	17 21	16 19 *	27 30	29 * 31	20 32	24 * 29 *	10 11	10 11
Rhode Island	17	15 *	27	31 *	36	31 *	9	8
South Carolina	22	19 *	33	36 *	33	33	15	13 *
South Dakota	20	19	30	32 *	31	24 *	9	9
Tennessee	23	23	35	34	38	38	18	13 *
Texas	16	16	32	33	33	31	8	7
Utah	10	9	24	25	19	26 *	6	6
Vermont	17	16	25	28 *	22	33 *	11	10
Virginia	19	16 *	27	31 *	27	28	11	9 *
Washington	16	14 *	27	28	25	25	8	7
West Virginia	27	26	37	40 *	35	35	23	21 *
Wisconsin	19	16 *	29	33 *	30	26 *	11	10
Wyoming	21	19 *	29	29	27	29	11	12
Change								
States Improved		32		0		13		8
States Worsened		0		28		12		1

 $Notes: \texttt{*Denotes} \ a \ change \ of \ at \ least \ 0.5 \ standard \ deviations. \ \texttt{**Denotes} \ a \ change \ of \ 1.0 \ standard \ deviation \ or \ more.$

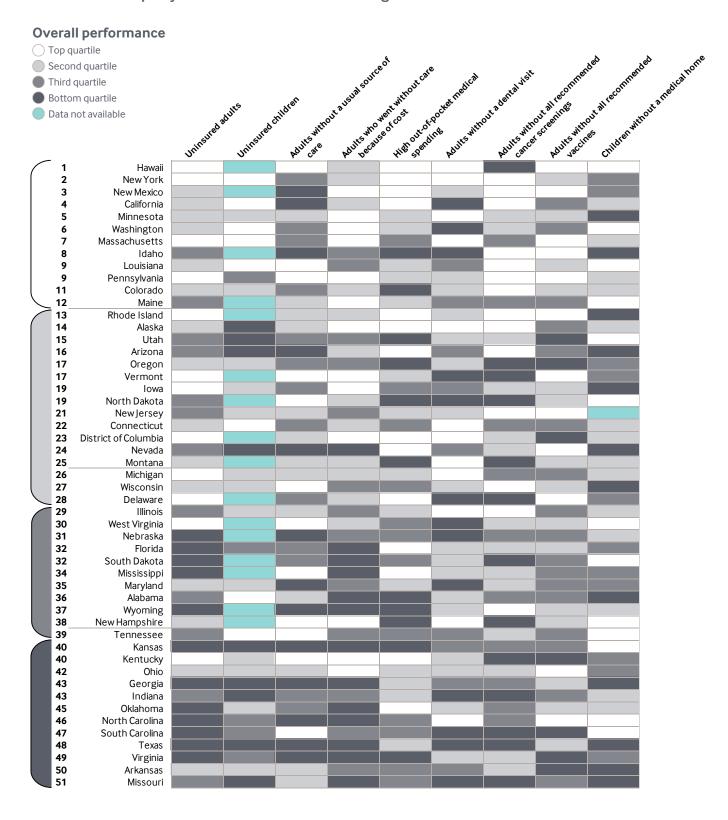
APPENDIX F3. Deaths from Suicide, Alcohol, and Drugs, 2005-2017

			de deaths er 100,000)	Alcohol deaths (rate per 100,000)				
	2005	2013	2017	% Change 2005- 2017	2005	2013	2017	% Change 2005- 2017	
United States	10.9	12.6	14.0	28%	7.0	8.2	9.6	37%	
Alabama	11.5	14.4	16.6	44	5.2	4.7	6.8	31	
Alaska	19.9	23.2	27.0	36	19.5	16.7	20.2	4	
Arizona	16.4	17.5	18.2	11	11.3	16.0	16.2	43	
Arkansas	14.3	17.3	20.8	45	4.9	5.9	7.9	61	
California	9.1	10.2	10.5	15	11.2	11.2	11.6	4	
Colorado	17.2	18.6	20.3	18	10.5	13.8	16.5	57	
Connecticut	8.1	8.7	10.5	30	4.8	6.8	8.2	71	
Delaware	9.7	12.5	11.6	20	6.2	6.0	9.2	48	
District of Columbia	5.4	5.7	6.6	22	14.5	9.9	9.3	-36	
Florida	12.5	13.8	14.0	12	8.0	8.8	9.9	24	
Georgia	10.6	12.0	13.6	28	5.7	6.2	7.3	28	
Hawaii	8.2	11.8	15.2	85	3.5	4.5	5.8	66	
Idaho	16.5	19.2	23.2	41	9.5	11.9	11.6	22	
Illinois	8.6	9.9	11.2	30	4.4	5.8	7.7	75	
Indiana	11.8	14.2	16.3	38	4.9	7.3	9.6	96	
lowa	11.2	14.4	15.0	34	6.1	9.0	11.5	89	
Kansas	13.3	14.7	19.1	44	6.3	6.8	9.8	56	
Kentucky	13.4	15.5	16.9	26	5.6	6.6	9.6	71	
Louisiana	11.0	12.4	15.2	38	4.6	5.8	6.6	43	
Maine	12.4	17.4	18.9	52	8.2	8.5	11.3	38	
Maryland	8.4 7.2	9.2 8.2	9.8 9.5	17 32	4.7 5.5	4.8 6.2	5.5	17	
Massachusetts	11.0	12.9	9.5 14.1	28	5.5 6.8	7.8	8.4 9.1	53 34	
Michigan Minnesota	10.5	12.9	13.8	31	6.5	7.6 8.7	10.0	54	
Mississippi	10.3	13.0	15.0	18	5.5	5.3	6.3	15	
Missouri	12.7	15.6	18.5	48	5.5	6.5	7.9	44	
Montana	21.7	23.7	28.9	33	12.1	16.8	20.7	71	
Nebraska	10.9	11.6	14.7	35	6.4	9.1	11.8	84	
Nevada	19.8	18.6	20.3	3	8.9	11.8	14.8	66	
New Hampshire	12.0	12.8	18.9	58	7.5	10.3	10.3	37	
NewJersey	6.1	8.0	8.3	36	5.2	5.4	6.3	21	
New Mexico	17.8	20.3	23.3	31	16.2	22.7	30.6	89	
New York	6.0	8.1	8.1	35	5.2	6.7	7.0	35	
North Carolina	11.5	12.6	14.3	24	6.7	7.6	8.4	25	
North Dakota	13.7	17.3	20.1	47	10.9	13.5	14.0	28	
Ohio	11.5	12.9	14.8	29	6.1	6.8	8.9	46	
Oklahoma	14.8	17.2	19.1	29	9.3	11.4	14.1	52	
Oregon	14.9	16.8	19.0	28	13.4	15.5	17.4	30	
Pennsylvania	11.1	13.4	15.0	35	3.5	5.2	6.0	71	
Rhode Island	6.3	12.2	11.8	87	4.9	10.1	9.6	96	
South Carolina	11.8	14.0	16.3	38	8.3	7.4	10.5	27	
South Dakota	15.4	18.0	22.5	46	11.0	13.7	20.2	84	
Tennessee	14.0	15.4	16.8	20	6.9	8.3	10.2	48	
Texas	10.9	11.7	13.4	23	5.8	6.5	7.9	36	
Utah	15.4	21.4	22.7	47	6.7	8.4	9.3	39	
Vermont	12.5	16.8	18.3	46	7.5	12.7	11.8	57	
Virginia	11.2	12.5	13.4	20	4.4	5.2	7.1	61	
Washington	12.8	14.0	16.9	32	9.4	13.3	13.4	43	
West Virginia	13.2	16.4	21.1	60	5.3	7.3	11.6	119	
Wisconsin	11.6	14.4	15.4	33	7.9	8.9	11.2	42	
Wyoming	17.3	21.5	26.9	55	11.6	16.3	20.3	75	

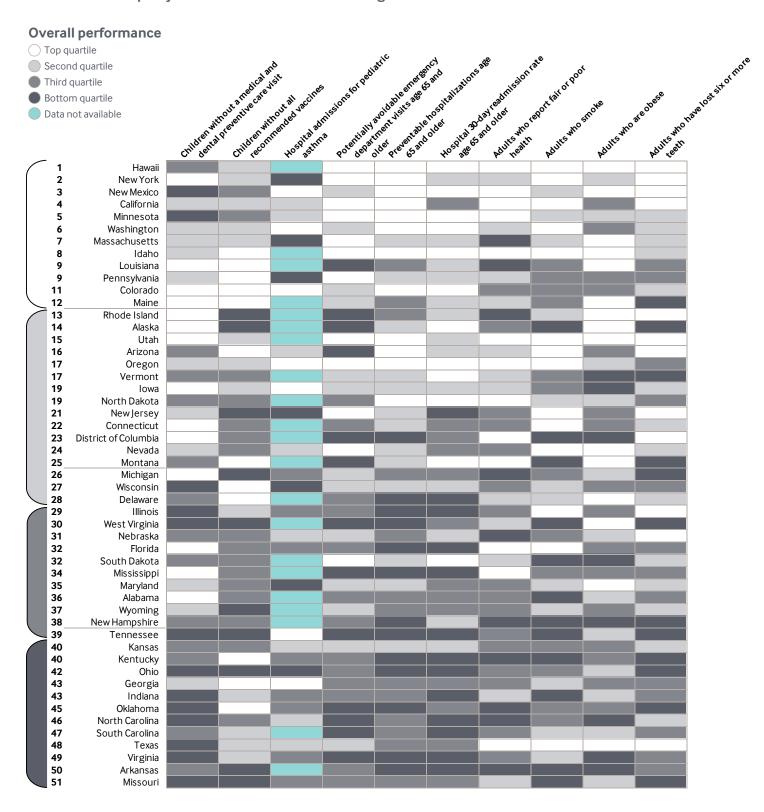
APPENDIX F3. Deaths from Suicide, Alcohol, and Drugs, 2005-2017 (continued)

			oning dea er 100,000	
		·		
	2005	2042	2047	% Change 2005-
	2005	2013	2017	2017
United States	10.1	13.8	21.7	115%
Alabama	6.3	12.7	18.0	186
Alaska	11.4	14.4	20.2	77
Arizona	14.1	18.7	22.2	57
Arkansas	10.1	11.1	15.5	53
California	9.0	11.1	11.7	30
Colorado	12.7	15.5	17.6	39
Connecticut	8.5	16.0	30.9	264
Delaware	7.5	18.7	37.0	393
District of Columbia	13.7	15.0	44.0	221
Florida	13.5	12.6	25.1	86
Georgia	8.2	10.8	14.7	79
Hawaii	9.4	11.0	13.8	47
Idaho	8.1	13.4	14.4	78
Illinois	8.4	12.1	21.6	157
Indiana	9.8	16.6	29.4	200
Iowa	4.8	9.3	11.5	140
Kansas	9.1	12.0	11.8	30
Kentucky	15.3	23.7	37.2	143
Louisiana	14.7	17.8	24.5	67
Maine	12.4	13.2	34.4	177
Maryland	11.4	14.6	36.3	218
Massachusetts	12.0	16.0	31.8	165
Michigan	9.8	15.9	27.8	184
Minnesota	5.4	9.6	13.3	146
Mississippi	8.8	10.8	12.2	39
Missouri	10.7	17.5	23.4	119
Montana	10.1	14.5	11.7	16
Nebraska	5.0	6.5	8.1	62
Nevada	18.7	21.1	21.6	16
New Hampshire	10.7	15.1	37.0	246
NewJersey	9.4	14.5	30.0	219
New Mexico	20.1	22.6	24.8	23
New York	4.8	11.3	19.4	304
North Carolina	11.4	12.9	24.1	111
North Dakota		2.8	9.2	
Ohio	10.9	20.8	46.3	325
Oklahoma	13.8	20.6	20.1	46
Oregon	10.4	11.3	12.4	19
Pennsylvania	13.2	19.4	44.3	236
Rhode Island	14.3	22.4	31.0	117
South Carolina	9.9	13.0	20.5	107
South Dakota	5.5	6.9	8.5	55
Tennessee	14.5	18.1	26.6	83
Texas	8.5	9.3	10.5	24
Utah	19.3	22.1	22.3	16
Vermont	8.5	15.1	23.2	173
Virginia	7.5	10.2	17.9	139
Washington	13.0	13.4	15.2	17
West Virginia	10.5	32.2	57.8	450
Wisconsin	9.3	15.0	21.2	128
Wyoming	4.9	17.2	12.2	149

APPENDIX G1. Disparity: Dimension and Indicator Ranking



APPENDIX G1. Disparity: Dimension and Indicator Ranking (continued)



APPENDIX G2. Disparity: Indicator Rates for Low-Income Population and Difference from Higher-Income Population

	Uninsure			d children	Adults w	ce of care	older w witho because past	ge 18 and ho went ut care of cost in year	medical	of-pocket spending	denta	vithout a al visit	recomi cancer s	rithout all mended creenings
	20:		20		20			17		6-17	20)16
	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity
United States	23%	-19	7%	-5	28%	-12	23%	-16	25%	-23	24%	-13	35%	-10
Alabama	27 * 26 *		4		24 '		27		29	-28	25 '		37	
Alaska	26 * 23 *	-13	12 11 11 11 11 11 11 11 11 11 11 11 11 1		31 ³		14 ¹		24	-20	14 °		34 34	
Arizona Arkansas	18 *		6	-4	21 '		25		24 28	-21 -26	23 '		38	
California	18 *		4		34 '		20		20	-18	25 '		29	
Colorado	18 *		6		30	-10	21		31	-28	24 '		34	
Connecticut	16 *	-13	4	-2	20 '	* -12	18	* -12	28	-26	17 '	* -10	31	* -11
Delaware	14 *	-11	-		24 '	* -11	21	* -12	23	-21	24 '	* -16	35	* -16
District of Columbia	8 *	-0	-		26	-6	12		20	-19	14 '		28	
Florida	32 *		9	_	30 '	-11	26			-22	26	-12	36	
Georgia	35 *		10		33 '		29		25	-24	25	-14	36	-12
Hawaii	12 *		3		17 '		15		21	-19	18	-8 * 15	36 39	
Idaho Illinois	27 * 19 *		4	* -3	34 °		24 ¹ 20 ¹		32 26	-29 -24	25 ³		33	
Indiana	21 *		9		25 '		23		_	-24	25 '		42	
Iowa	12 *		4	-3	26 '		14			-26	22 '		33	
Kansas	26 *		8		29 '		26			-28	23 '		38	-11
Kentucky	12 *		5		16 '		17		24	-22	24 '		38	-14
Louisiana	20 *	-14	3	* -1	22 '	* -5	25	* -17	25	-23	29 '	* -14	33	* -7
Maine	23 *	-19	5		14	-6	14	-7	26	-25	21 '	* -14	35	* -13
Maryland	18 *	-13	6	-4	27 '		22		26	-25	26 '		33	-8
Massachusetts	7 *		2	-1	20 '		14		27	-26	17 '		33	
Michigan	13 *		4	-	18 '		17		26	-24	19 '		35	-12
Minnesota	14 *		5		27 '		15		26	-25	18 '		33	
Mississippi Missouri	31 * 26 *		5 8 ¹	* -6	26 26	-5 -9	29 ¹ 25 ¹		23 29	-21 -27	24 °		34 43	
Montana	19 *		10		31	-6	20		35	-33	20 3		43	
Nebraska	27 *		11		27 '		24		29	-26	24 '		39	
Nevada	25 *		10		44	-16	31		24	-21	25 '		36	
New Hampshire	18 *				13 '		16			-30	15 '		38	
New Jersey	25 *	-21	6	* -4	23 '	· -9	23	* -17	24	-23	20 '	* -11	32	* -5
New Mexico	19 *	-14	5		32 '		18	* -10	19	-17	24 '	* -13	39	-6
New York	13 *		4		21 '		18		20	-19	20 '		33	
North Carolina	31 *		7	-	32	-17	31		30	-27	19 '		33	
North Dakota	21 *		13 5	 k 2	24 10 °	-1	16	-13	33	-31	25 '		43	-15
Ohio Oklahoma	15 * 35 *	12	8		19 °	-0	17 ¹ 28 ¹		25 25	-23 -22	22 ³		36 41	-10 * -11
Oregon	16 *	-12	5	-	29 3		22		31	-22	21 '		42	
Pennsylvania	14 *		7		13 '		14		26	-25	22	-11	33	
Rhode Island	13 *				15 '		18		21	-20	17 '		26	
South Carolina	30 *	-25	7	* -5	23 '	* -4	25	* -18	28	-26	27 '	* -17	38	* -15
South Dakota	28 *	-25	10		30	-11	26	* -20	30	-27	20	-11	38	-15
Tennessee	25 *		5		20 '		20			-27	27	-14	35	
Texas	43 *		13		45	-22	37			-23	31 '		44	
Utah	25 *		11		36	-12	24			-31	22 '		36	
Vermont	7 *		 7	 * E	12 '		11		l .	-25	22 3		42	
Virginia Washington	27 * 17 *	-	3	-	30 3		27 ¹ 17 ¹			-28 -23	21 ³	* -12 -15	33 35	
West Virginia	17 *		2	-1	22 3		20			-23 -26	25		36	
Wisconsin	14 *		6				21			-26	17 '			
Wyoming	33 *				39 '		32			-29		-12		

Notes: Rates are for the states' low income population, generally those whose household income is under 200% FPL. Disparity is the difference between the states' low-income and higher-income (400%+ FPL) populations. (*) denotes meaningful improvement or worsening from the baseline period. Baseline data not shown, refer to state profiles at datacenter.commonwealthfund.org for baseline data.

APPENDIX G2. Disparity: Indicator Rates for Low-Income Population and Difference from Higher-Income Population (continued)

											avoi	entially idable ergency	
	Adults without all recommended		el 11 1		Children without a		Children without all			admissions	department visits		
		mended cines		without a al home		and dental e care visit		mended cines		tric asthma r 100,000)		and older er 1,000)	
		17		17		17		016		015		014	
	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	
United States	65%	-8	63%	-25	39%	-16	33	-10			366	-192	
Alabama	67	-8	66	* -29	34	* 1	27	-14			396	* -226	
Alaska	71	* -8	59	* -22	38	* -5	42	-23			453	-281	
Arizona	70	* -9	66	* -32	39	* -14	27		105	* -57	413	* -236	
Arkansas	65	-11	70		42	-17	36		80		385		
California	07	* -8	64		39		38		126		301		
Colorado	37	* -6	58		21		23		130	* -44	339		
Connecticut	01	* -10	57		21		30				379		
Delaware	50	* -5	66		34		22				385		
District of Columbia	69	-13 * -7	56	-23 * 25	25		35		100	* 440	430		
Florida	0.5	-,	00	* -25 * -21	35 34		41	-15	169	* -110	370 396		
Georgia	05	* -7 * -4	70	* -31 -14		* -11 -16	25 28	-3	72	* -37	232		
Hawaii Idaho	67	•	51 63		36 34	-16	28				232		
Illinois		* -9	59		58		32	* -3 -10		* -93	400		
Indiana	71	-	60		40		30		122	55	408		
Iowa	60	* -6	62		27					* -20	353		
Kansas	68	-10	56		38		33	-14		* -78	349		
Kentucky		* -12	59		35	-16	23		107		427		
Louisiana		* -6	59		28	-3	32				441	-248	
Maine		* -9	47		23		30	* -3			355		
Maryland	60	-10	61	* -26	32	-12	33		364	* -309	358	* -184	
Massachusetts	59	-3	54	* -23	30	* -13	19	-7	206	-154	343	* -154	
Michigan	68	-10	63	* -20	33		38	* -19	160	* -107	399	* -191	
Minnesota	58	* -6	66	* -29	45	* -21	34	-13	112	* -68	332		
Mississippi	69	-8	61	-24	34	-7	32	-11			466		
Missouri	01	* -8	61	-29	62		41	-28	163	* -83	411		
Montana	66	-7	62		39		40	-5			384		
Nebraska	00	* -10	51		42		26	-12	69	* -48	320		
Nevada	03	* -1	72	-33	49	-13	33	-13	147	* -69	305	-157	
New Hampshire	00	* -6 * -3	53	* -15	33	-15	31			* -207	390		
New Jersey	00	* -3 * -5		 * -28	31 42		39				320		
New Mexico	0.5		00				35 32		153 436	* -337	348		
New York North Carolina	0-7	* -6 * -5	62 49		32 46		25	* -8 -13	436 91		283 445	-122 * -265	
North Dakota	63	-5 -7	57	-16	46	-15	40	-15		-33	358		
Ohio		* -3	56	-28	50		43	* -28	199	* -158	436		
Oklahoma		* -6	65		50		33	-20	150	-112	458		
Oregon		* -11	59		35		41		59	-15	309		
Pennsylvania		* -2	69	-22	30		28		278	-229	330		
Rhode Island		* -2		* -34	26		32			_	437		
South Carolina	67	* -11	58	-18	37	* -15	34				440		
South Dakota	58	-10	60	-16	43	* -18	36	-15			289	* -147	
Tennessee	67		54		36	-20			60	* -37	411		
Texas	67	* -6	68	-34	47	* -23	31	* -6	87	* -47	361	* -183	
Utah	70		58		39	* -7	31	* -10			276		
Vermont	59		57		35	-14	29	-15			321		
Virginia	65		55	-24	37		37		119		423		
Washington	62		52		33		28	-10	47	7	317		
West Virginia	60		55	-11	32	-19	43	-24	59		444		
Wisconsin	67		73						174	* -135	369		
Wyoming	68	-7	65	* -23	43	* -13	48	* -20			341	* -177	

Notes: Rates are for the states' low-income population, generally those whose household income is under 200% FPL. Disparity is the difference between the states' low-income and higher-income (400%+ FPL) populations. *Denotes meaningful improvement or worsening from the baseline period. Baseline data not shown; refer to state profiles at datacenter.commonwealthfund.org for baseline data. Trend data not available for children without all components of a medical home, and children without a medical and dental preventive care visit. — Indicates that estimates are not available.

APPENDIX G2. Disparity: Indicator Rates for Low-Income Population and Difference from Higher-Income Population (continued)

	Prever	ntable.	Hospit	al 30-day								
	hospitalizat			ssion rate								
	and older		age 65	and older	Adults w	ho report					Adults who	have lost
	1,00	00)	(rate p	(rate per 1,000)		fair or poor health		Adults who smoke		o are obese	six or more teeth	
	20:	15	20	015	20	17	2017		2017		20:	16
	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity	Rate	Disparity
United States	99	-56	63	-33	30%	-22	24%	-13	39%	-10	17%	-12
Alabama	118						33		44	-8	22 *	
Alaska	77	-51					39		39	-7	23 *	
Arizona	64				30		21	-11	39	-11 * -17	12 *	
Arkansas California	120 68	-75 * -40			39 27		35 13		52 34	* -17 * -13	23 9 *	-17 -6
Colorado	61	-40					26		34	* -12	14 *	
Connecticut	94	-51			28		17		38	-13	13 *	
Delaware	109		70		29		26		36	* -7	18	-12
District of Columbia	109		61	* -36	20	* -16	30	-25	45	* -27	12 *	-9
Florida	122	* -76	91	* -56	26	* -18	22	* -12	39	* -13	21 *	-16
Georgia	101	* -59	63	* -35	31	-23	25	* -13	44	* -11	22	-15
Hawaii	52	* -29	29	* -14	19	* -11	15	* -4	33	-7	12 *	-9
Idaho	61	-37			24		22	* -12	35	* -5	14 *	
Illinois	119				l .		22		41	* -13	12 *	
Indiana	112				31	-21	34	-20	39	-8	21 *	
Iowa	88				26		29		51	* -17	16 *	
Kansas	92				30		30		45	* -13	16	-12
Kentucky	146				40	-28	40		45	-11	33 *	
Louisiana	115 93	-63 * -55					33 29	* -18 -18	44 32	-6 * -3	22 * 25 *	
Maine Maryland	99				l .		23		38	-5 -5	14 *	
Massachusetts	97				31		22	-13	31	* -7	16	-12
Michigan	110						31	-19	39	* -8	23 *	
Minnesota	68						22		37	* -9	16 *	
Mississippi	128	-81		-42	27		30		45	* -11	26 *	
Missouri	109	-62	70	* -36	29	* -22	37	* -23	41	* -10	28 *	-22
Montana	76	-44	29	* -14	24	-19	35	* -26	33	-7	24 *	-20
Nebraska	98	* -59	46	-23			27	-16	41	* -10	12	-8
Nevada	85	-54			35	* -25	22		31	* -5	16 *	-11
New Hampshire	117				38		30		42	* -16	23 *	
New Jersey	103						16		36	* -11	15 *	
New Mexico	63	-34					23		34	-6	11 *	
New York	88		59 66			-21	17		32	* -8	13	-8
North Carolina North Dakota	108				36 · 24 ·		26 29	-16	48	-16 -9	19 * 18 *	
Ohio	121	* -42 -68		-13 * -39	33		32		41 45	-10	26 *	
Oklahoma	126				36		30		47	* -11	26 *	
Oregon	62				28		19		38	-10	19 *	
Pennsylvania	101						30		40	* -11	21 *	
Rhode Island	111				32		24		39	-7	12 *	
South Carolina	101	-62	69	* -42	30	* -24	27	* -15	45	-10	21	-17
South Dakota	89	-52	39	-19	26	* -20	35	-21	45	* -17	17 *	-11
Tennessee	122	-76	73	* -41	30	* -23	33	* -22	43	* -9	24 *	-18
Texas	100	* -56			29	-19	20	* -9	39	* -6		
Utah	53								30	* -6		
Vermont	75				l .		27		42	* -16		
Virginia	112					-23			44	* -14		
Washington	70						22		39	* -13 * -6		
West Virginia	132						37		43	ŭ		-24
Wisconsin Wyoming	101				l .				42 38	* -12 * -11		
vv y Oilling	101	-00	40	-28	21	-24	1 23	-13	1 36	-11	19.	-12

Notes: Rates are for the states' low-income population, generally those whose household income is under 200% FPL. Disparity is the difference between the states' low-income and higher-income (400%+FPL) populations. *Denotes meaningful improvement or worsening from the baseline period. Baseline data not shown; refer to state profiles at datacenter.commonwealthfund.org for baseline data.

ABBREVIATIONS

ACS PUMS = American Community Survey, Public Use Micro Sample

AHRQ = Agency for Healthcare Research and Quality

BRFSS = Behavioral Risk Factor Surveillance System

CAHMI = Child and Adolescent Health Measurement Initiative

CCW = Chronic Conditions Warehouse

CDC = Centers for Disease Control and Prevention

CMS = Centers for Medicare and Medicaid Services

CPS ASEC = Current Population Survey, Annual Social and Economic Supplement

HCAHPS = Hospital Consumer Assessment of Healthcare Providers and Systems Survey

HCUP NIS = Healthcare Cost and Utilization Project, Nationwide Inpatient Sample

HCUP SID = Healthcare Cost and Utilization Project, State Inpatient Databases

MDS = Minimum Data Set

MedPAR = Medicare Provider and Analytic Review

MEPS IC = Medical Expenditure Panel Survey, Insurance Component

NCCDPHP = National Center for Chronic Disease Prevention and Health Promotion

NCHS = National Center for Health Statistics

NCIRD = National Center for Immunization and Respiratory Diseases

NIS PUF = National Immunization Survey, Public Use Data File

NSCH = National Survey of Children's Health

NSDUH = National Survey of Drug Use and Health

NVSS-I = National Vital Statistics System–Linked Birth and Infant Death Data

NVSS-M = National Vital Statistics System-Mortality Data

OASIS = Outcome and Assessment Information Set

SAF = Standard Analytic Files

SAMHSA = Substance Abuse and Mental Health Services Administration

WONDER = Wide-ranging Online Data for Epidemiologic Research

DEFINITIONS FOR INDICATORS

- **1. Adults ages 19–64 uninsured:** Percent of adults ages 19–64 without health insurance coverage. Authors' analysis of 2013 and 2017 1-year ACS PUMS (U.S. Census Bureau).
- **2. Children ages 0–18 uninsured:** Percent of children ages 0–18 without health insurance coverage. Authors' analysis of 2013 and 2017 1-year ACS PUMS (U.S. Census Bureau).
- **3.** Adults without a usual source of care: Percent of adults age 18 and older who did not have one (or more) person they think of as their personal health care provider. Authors' analysis of 2013 and 2017 BRFSS (CDC, NCCDPHP).
- **4.** Adults who went without care because of cost in the past year: Percent of adults age 18 and older who reported a time in the past 12 months when they needed to see a doctor but could not because of cost. Authors' analysis of 2013 and 2017 BRFSS (CDC, NCCDPHP).
- **5. Individuals with high out-of-pocket medical spending:** Percent of individuals residing in households where all residents are

under age 65 with out-of-pocket medical spending that equaled 10 percent or more of income, or 5 percent or more of income if low-income (under 200% of federal poverty level), not including over-the-counter drug costs or health insurance premiums if insured. This measure includes both insured and uninsured individuals. Two years of data are combined to ensure adequate sample size for state-level estimation. Ougni Chakraborty, Robert F. Wagner School of Public Service, New York University, analysis of 2014, 2015, 2017, and 2018 CPS ASEC (U.S. Census Bureau).

6. Employee health insurance contributions as a share of median income: We compared employees' average contributions to their employer-sponsored health insurance premiums as a percent of state median household incomes for the under-65 population in each state. Premium contribution data are originally reported separately for single-person and family plans; we therefore used a weighted average of single and family premium contributions compared with single and family median household incomes. Authors' analysis of 2013 and 2017 MEPS-IC (AHRQ) and 2014 and 2018 CPS ASEC (U.S. Census Bureau).

- **7.** Adults without a dental visit in past year: Percent of adults age 18 and older who did not visit a dentist, or dental clinic within the past year. Authors' analysis of 2012 and 2016 BRFSS (CDC, NCCDPHP).
- **8.** Adults without all age- and gender-appropriate cancer screenings: Percent of adults ages 50–74 who did not receive sigmoidoscopy or colonoscopy in the last ten years or a fecal occult blood test in the last two years; a mammogram in the last two years (women ages 50–74 only); and a pap smear in the last three years (women ages 25–64 only). Authors' analysis of 2012 and 2016 BRFSS (CDC, NCCDPHP).
- **9. Adults without all age-appropriate vaccines:** Percent of adults age 18 and older who did not receive a flu shot in the past year and a pneumonia vaccine ever if age 65 and older. Authors' analysis of 2013 and 2017 BRFSS (CDC, NCCDPHP).
- 10. Diabetic adults ages 18–64 without a hemoglobin A1c test: The share of adult diabetic patients ages 18–64 who did not have at least one hemoglobin A1c test during the year (expressed as a rate per 100 employer-insured enrollees). Michael E. Chernew and Andrew Hicks, Harvard Medical School Department of Health Care Policy, analysis of the 2015 and 2016 Truven Marketscan Database.
- **11. Medicare beneficiaries received a high-risk drug:** Percent of fee-for-service Medicare beneficiaries ages 65 and older who received at least one drug from a list of 13 classes of high-risk prescriptions that should be avoided by the elderly. J. Zheng, Harvard University, analysis of 2015 Medicare Part D claims.
- **12.** Children without all components of a medical home: Percent of children ages 0–17 who did not have all of the following, according to parents' reports: a personal doctor or nurse, a usual source for sick and well care, family-centered care, any problems getting needed referrals, and effective care coordination when needed. For more information, see www.childhealthdata.org. Authors' analysis of 2016 and 2017 NSCH (CAHMI).
- **13.** Children without a medical and dental preventive care visit in the past year: Percent of children ages 0–17 who did not have a preventive medical visit and, if ages 1–17, a preventive dental visit in the past year, according to parents' reports. For more information, see www.childhealthdata.org. Authors' analysis of 2016 and 2017 NSCH (CAHMI).
- **14.** Children who did not receive needed mental health treatment: Percent of children ages 3–17 who had any kind of emotional, developmental, or behavioral problem that required treatment or counseling and who did not receive treatment from a mental health professional (as defined) during the past 12 months, according to parents' reports. For more information, see

- www.childhealthdata.org. Authors' analysis of 2016 and 2017 NSCH (CAHMI).
- **15.** Children ages 19–35 months who did not receive all recommended vaccines: Percent of children ages 19–35 months who did not receive at least 4 doses of diphtheria, tetanus, and accellular pertussis (DTaP/DT/DTP) vaccine; at least 3 doses of poliovirus vaccine; at least 1 dose of measles-containing vaccine (including mumps-rubella (MMR) vaccine); the full series of Haemophilus influenza type b (Hib) vaccine (3 or 4 doses depending on product type); at least 3 doses of hepatitis B vaccine (HepB); at least 1 dose of varicella vaccine, and at least 4 doses of pneumococcal conjugate vaccine (PCV). Data from the 2013 and 2017, NIS-PUF (CDC, NCIRD).
- 16. Hospital 30-day mortality: Risk-standardized, all-cause 30-day mortality rates for fee-for-service Medicare patients age 65 and older hospitalized with a principal diagnosis of heart attack, heart failure, pneumonia or stroke between July 2010 and June 2013, and July 2013 and June 2016. All-cause mortality is defined as death from any cause within 30 days after the index admission, regardless of whether the patient dies while still in the hospital or after discharge. Authors' analysis of Medicare enrollment and claims data retrieved from 4th Quarter 2018 and 4th Quarter 2014 Hospital Compare (CMS).
- 17. Central line-associated bloodstream infections (CLABSI), Standardized Infection Ratio (SIR): All CLABSIs reported to the National Healthcare Safety Network from all applicable hospital locations, including intensive care units, neonatal intensive care units, and wards. The standardized infection ratio compares the observed number of CLABSIs reported by hospitals within the state to the predicted number of infections based on the referent period, adjusting for key risk factors. Data are from the CDC's 2015 and 2016 National and State Healthcare-Associated Infections Progress Reports.
- **18.** Hospital patients discharged without instructions for home recovery: Percent of hospitals in the state with of hospitals in a state with HCAHPS patient experience summary scores lower than the national median. Authors' analysis of 2017 HCAHPS as administered to adults discharged from acute care hospitals. Retrieved from 4th Quarter 2018 Hospital Compare (CMS).
- 19. Home health patients who did not get better at walking or moving around: Percent of all home health episodes in which a person did not improve at walking or moving around compared to a prior assessment. Episodes for which the patient, at start or resumption of care, was able to ambulate independently are excluded. Authors' analysis of 2013 and 2017 OASIS. Data retrieved from 3rd quarter 2018 and 2nd quarter 2014 Home Health Compare (CMS).

20. Nursing home residents with an antipsychotic medication: Percent of long-stay nursing home residents who received an antipsychotic medication, excluding residents with Schizophrenia, Tourette's syndrome, and Huntington's disease. Authors' analysis of 2013–2017 MDS. Data retrieved from June 2018 and June 2014 Nursing Home Compare (CMS).

21. Adults with any mental illness (AMI) reporting unmet need: Percent of adults ages 18 or older with AMI (defined below) who reported a perceived need for mental health treatment or counseling in the past 12 months that was not received. This measure could include adults who reported that they received some type of mental health service in the past 12 months; an unmet need for services after adults had received some services would indicate a perceived need for additional services that they did not receive. Data are from the 2009–2011 and 2014–2016 NSDUH (SAMHSA), as reported in Mental Health America's 2019 State of Mental Health in America (http://www.mentalhealthamerica.net).

22. Adults with any mental illness (AMI) who did not receive treatment: Percent of adults ages 18 or older with AMI (defined below) who reported they did not receive mental health treatment in the past 12 months. Mental health treatment is defined as receiving treatment or counseling for any problem with emotions, nerves, or mental health in the 12 months prior to the interview in any inpatient or outpatient setting, or the use of prescription medication for treatment of any mental or emotional condition that was not caused by the use of alcohol or drugs. Data are from the 2009–2011 and 2014–2016 NSDUH (SAMHSA), as reported in Mental Health America's 2019 State of Mental Health in America (http://www.mentalhealthamerica.net).

Note: Adults with any mental illness (AMI) is defined as adults ages 18 or older who currently or at any time in the past year have had a diagnosable mental, behavioral, or emotional disorder (other than a developmental or substance use disorder) of sufficient duration to meet diagnostic criteria specified within the Diagnostic and Statistical Manual of Mental Disorders, 4th edition, regardless of the level of impairment in carrying out major life activities. AMI was estimated based on a statistical model of a clinical diagnosis and responses to questions on distress, impairment, past year major depressive episode, past year suicidal thoughts, and age. For more information, see: SAMHSA, NSDUH, Methodological Summary and Definitions, https://www.samhsa.gov/data/ sites/default/files/NSDUH-MethodSummDefsHTML-2015/ NSDUH-MethodSummDefsHTML-2015/NSDUH-MethodSummDefs-2015.htm.

23. Hospital admissions for pediatric asthma, per 100,000 children: Excludes patients with cystic fibrosis or anomalies of

the respiratory system, and transfers from other institutions. Authors' analysis of 2012 and 2015 HCUP SID (AHRQ); not all states participate in HCUP. Estimates for total U.S. are from the HCUP NIS (AHRQ).

24 & 25. Potentially avoidable emergency department (ED) visits: Potentially avoidable ED visits were those that, based on diagnoses recorded during the visit and the health care service the patient received, were considered to be either nonemergent (care was not needed within 12 hours), or emergent (care needed within 12 hours) but that could have been treated safely and effectively in a primary care setting. This definition excludes any ED visit that resulted in an admission, as well as ED visits where the level of care provided in the ED was clinically indicated. This approach uses the New York University Center for Health and Public Service Research emergency department algorithm developed by John Billings, Nina Parikh, and Tod Mijanovich (see: Emergency Room Use — The New York Story, The Commonwealth Fund, Nov. 2000, http://www.commonwealthfund.org/ publications/issue-briefs/2000/nov/emergency-room-use--thenew-york-story).

Ages 18–64, per 1,000 employer-insured enrollees: Michael E. Chernew and Andrew Hicks, Harvard Medical School Department of Health Care Policy, analysis of the 2015 and 2016 Truven Marketscan Database.

Ages 65 and older, per 1,000 Medicare beneficiaries: Jie Zheng, Harvard University, analysis of 2012 and 2015 Medicare Enrollment and SAF Claims Data 20% sample of fee-for-service Medicare beneficences ages 65 and older (CMS, CCW).

26 & 27. Admissions for ambulatory care—sensitive conditions: Hospital admissions for one of the following eight ambulatory care—sensitive (ACS) conditions: long-term diabetes complications, lower extremity amputation among patients with diabetes, asthma or chronic obstructive pulmonary disease, hypertension, congestive heart failure, dehydration, bacterial pneumonia, and urinary tract infection.

Ages 18–64, per 1,000 employer-insured enrollees: Michael E. Chernew and Andrew Hicks, Harvard Medical School Department of Health Care Policy, analysis of the 2015 and 2016 Truven Marketscan Database.

Ages 65–74 and older, per 1,000 Medicare beneficiaries: Admissions of fee-for-service Medicare beneficiaries ages 65-74 or ages 75 and older (measure reported separately for each age group but combined into a population-weighted average). Authors' analysis of 2013 and 2017 CCW data, retrieved from the February 2019 CMS Geographic Variation Public Use File (CMS, Office of Information Products and Analytics).

28 & 29. 30-day hospital readmissions: All hospital admissions among patients who were readmitted within 30 days of an acute hospital stay for any cause. A correction was made to account for likely transfers between hospitals.

Ages 18–64, per 1,000 employer-insured enrollees: Michael E. Chernew and Andrew Hicks, Harvard Medical School Department of Health Care Policy, analysis of the 2015 and 2016 Truven Marketscan Database.

Age 65 and older, per 1,000 Medicare beneficiaries:

Readmissions among fee-for-service Medicare beneficiaries ages 65 and older. Authors' analysis of 2013 and 2017 CCW data, retrieved from the February 2019 CMS Geographic Variation Public Use File (CMS, Office of Information Products and Analytics).

30. Short-stay nursing home residents with a **30-day readmission** to the hospital: Percent of newly admitted nursing home residents who are rehospitalized within 30 days of being discharged from a hospital to the nursing home. Vincent Mor, Brown University, analysis of 2012 and 2016 Medicare enrollment data, MDS, and MedPAR File (CMS).

31. Long-stay nursing home residents with a hospital admission:

Percent of long-stay residents (residing in a nursing home for at least 90 consecutive days) who were hospitalized within six months of baseline assessment. Vincent Mor, Brown University, analysis of 2012 and 2016 Medicare enrollment data, MDS, and MedPAR File (CMS).

32. Home health patients with a hospital admission: Percent of home health episodes among fee-for-service Medicare beneficiaries during which the patient was admitted to an acutecare hospital. Authors' analysis data from CMS Medicare claims data. Data retrieved from 4th quarter 2018 and 3rd quarter 2014 Home Health Compare (CMS), representing patient experiences in 2017 and 2013.

33. Adults ages 18–50 with low back pain who had an imaging study at diagnosis: The share of employer-insured adults ages 18–50 who had a new primary diagnosis of low back pain with an imaging study (plain X-ray, MRI, or CT scan) within 28 days of the diagnosis (expressed as a rate per 100 enrollees). Enrollees who have a diagnosis for which an imaging study may be clinically appropriate (cancer, recent trauma, IV drug abuse, or neurologic impairment) are excluded. Michael E. Chernew and Andrew Hicks, Harvard Medical School Department of Health Care Policy, analysis of the 2015 and 2016 Truven Marketscan Database.

34. Total employer-sponsored insurance spending per enrollee: Total spending per enrollee in employer-sponsored insurance

plans estimated from a regression model of reimbursed costs for health care services from all sources of payment including the health plan, enrollee, and any third party payers incurred in 2013 and in 2015. Outpatient prescription drug charges are excluded. Enrollees with capitated plans and their associated claims are also excluded. Estimates for each state were adjusted for enrollees' age and sex, the interaction of age and sex, partial year enrollment and regional wage differences. Michael E. Chernew and Andrew Hicks, Harvard Medical School Department of Health Care Policy, analysis of the 2015 and 2016 Truven Marketscan Database.

35. Total Medicare (Parts A and B) reimbursements per enrollee: Total Medicare fee-for-service reimbursements include payments for both Part A and Part B but exclude Part D (prescription drug costs) and extra CMS payments for graduate medical education and for treating low-income patients. Reimbursements reflect only the age 65 and older Medicare fee-for-service population. Authors' analysis of 2013 and 2017 CCW data, retrieved from the February 2019 CMS Geographic Variation Public Use File (CMS, Office of Information Products and Analytics).

36. Mortality amenable to health care, deaths per 100,000 population: Number of deaths before age 75 per 100,000 population that resulted from causes considered at least partially treatable or preventable with timely and appropriate medical care (see list), as described in E. Nolte and M. McKee, "Measuring the Health of Nations: Analysis of Mortality Amenable to Health Care," British Medical Journal, Nov. 15, 2003, 327 (7424): 1129–32. Authors' analysis of mortality data from CDC restricted-use Multiple Cause-of-Death file (NCHS) and U.S. Census Bureau population data, 2003–2015.

Causes of death	Age
Intestinal infections	0-14
Tuberculosis	0-74
Other infections (diphtheria, tetanus, septicaemia, poliomyelitis)	0-74
Whooping cough	0-14
Measles	1-14
Malignant neoplasm of colon and rectum	0-74
Malignant neoplasm of skin	0-74
Malignant neoplasm of breast	0-74
Malignant neoplasm of cervix uteri	0-74
Malignant neoplasm of cervix uteri and body of uterus	0-44
Malignant neoplasm of testis	0-74
Hodgkin's disease	0-74
Leukemia	0-44
Diseases of the thyroid	0-74
Diabetes mellitus	0-49
Epilepsy	0-74
Chronic rheumatic heart disease	0-74
Hypertensive disease	0-74

Cerebrovascular disease	0-74
All respiratory diseases (excluding pneumonia and influenza)	1-14
Influenza	0-74
Pneumonia	0-74
Peptic ulcer	0-74
Appendicitis	0-74
Abdominal hernia	0-74
Cholelithiasis and cholecystitis	0-74
Nephritis and nephrosis	0-74
Benign prostatic hyperplasia	0-74
Maternal death	All
Congenital cardiovascular anomalies	0-74
Perinatal deaths, all causes, excluding stillbirths	All
Misadventures to patients during surgical and medical care	All
Ischaemic heart disease: 50% of mortality rates included	0-74

- **37. Breast cancer deaths per 100,000 female population:** Authors' analysis of NVSS–M, 2013 and 2016 (NCHS), retrieved using CDC WONDER.
- **38.** Colorectal cancer deaths per 100,000 population: Authors' analysis of NVSS–M, 2013 and 2016 (NCHS), retrieved using CDC WONDER.
- **39. Suicide deaths per 100,000 population:** Authors' analysis of NVSS-M, 2013 and 2016 (NCHS), retrieved using CDC WONDER.
- **40.** Alcohol-related deaths per 100,000 population: Authors' analysis of NVSS-M, 2013 and 2017 (NCHS), retrieved using CDC WONDER.
- **41. Drug poisoning deaths per 100,000 population:** Authors' analysis of NVSS-M, 2013 and 2017 (NCHS), retrieved using CDC WONDER.
- **42. Infant mortality, deaths per 1,000 live births:** Authors' analysis of NVSS-I, 2012 and 2016 (NCHS), retrieved using CDC WONDER.
- **43.** Adults who report fair/poor health: Percent of adults age 18 and older who reported being in fair or poor health. Authors' analysis of 2013 and 2017 BRFSS (CDC, NCCDPHP).
- **44. Adults who smoke:** Percent of adults age 18 and older who ever smoked 100 or more cigarettes (five packs) and currently smoke every day or some days. Authors' analysis of 2013 and 2017 BRFSS (CDC, NCCDPHP).
- **45.** Adults who are obese: Percent of adults ages 18-64 who are obese (Body Mass Index [BMI] ≥ 30). BMI was calculated based on reported height and weight. Authors' analysis of 2013 and 2017 BRFSS (CDC, NCCDPHP).

- **46.** Children who are overweight or obese: Children ages 10–17 who are overweight or obese (BMI >= 85th percentile). Overweight is defined as an age- and gender-specific body mass index (BMI-for-age) between the 85th and 94th percentile of the CDC growth charts. Obese is defined as a BMI-for-age at or above the 95th percentile. BMI was calculated based on parent-reported height and weight. For more information, see www.nschdata.org. Authors' analysis of 2017 NSCH (CAHMI).
- **47. Adults who have lost six or more teeth:** Percent of adults ages 18–64 who have lost six or more teeth because of tooth decay, infection, or gum disease. Authors' analysis of 2012 and 2016 BRFSS (CDC, NCCDPHP).



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