Submitted by
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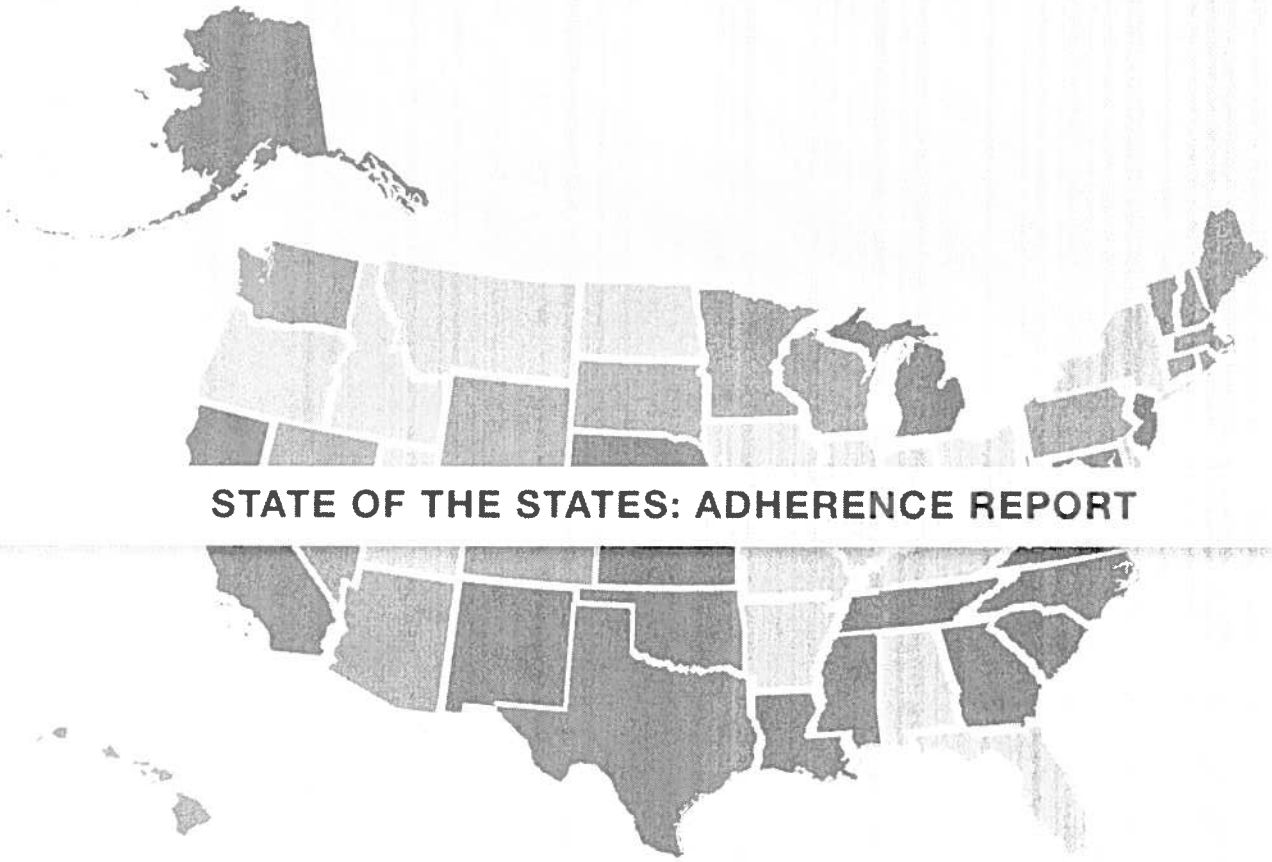

STATE OF THE STATES: ADHERENCE REPORT

CVS CAREMARK

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EXECUTIVE SUMMARY

For several years, CVS Caremark has been researching why a significant portion of people do not take their medicines as prescribed. The goal of the research is to expand the body of knowledge available about this complex patient behavior, commonly known as medication nonadherence, so we can develop innovative solutions to help people on their path to better health. As part of this effort, we have teamed with Harvard University and Brigham and Women's Hospital's Division of Pharmacoepidemiology and Pharmacoeconomics to extract information from our extensive pharmacy claims data and provide new insights on this topic. In addition, we are testing consumer communication preferences as part of our Behavior Change Research Partnership, which is made up of leading behavioral economists from academia. That partnership is testing how different messages impact patient decisions related to their medications. As always, we continue to review the role of pharmacists and physicians as they interact with patients in the health care system.

Medication nonadherence is a significant health care issue because studies show the annual cost for medical treatment that could be avoided if people take their medications as directed is $290 billion a year. The fact that CVS Caremark sponsored research has been published in 20 peer-reviewed articles in medical and economic journals over the past two years – with more on the way — is testimony to the rigor and discipline we bring to this effort. This research is important to our goal of expanding the understanding of adherence from every angle and will ultimately shape the development of products and services we use to improve patient behavior. The research was essential to the development of our Pharmacy Care Economic Model (PCEM) that pinpoints the potential cost savings health plans can achieve by adopting programs that improve medication adherence. The CVS Caremark PCEM outlines savings in excess of $50 million in medical care cost avoidance and increased productivity for businesses with 100,000 health plan members. In addition to improving the science around adherence research, we have been sharing what we have learned with health care professionals throughout the industry because medication adherence is not just about individual behavior; it is about care coordination and improved communication among all constituents that make up the health care continuum – patients, health care professionals and the health care system.

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Findings from our research have shown that improving patient adherence can save the health care system significant dollars. But the research has also found that patient behavior is complex and not easily changed and there is no single solution to ensuring patients take their medications as directed. As a result, we continue our campaign to communicate about the importance of adherence to both patients and physicians, so they treat it as a priority. We are quantifying and communicating the positive benefits of medication adherence to policymakers, so as they look for ways to reduce medical costs, they understand that increasing adherence can help patients avoid unnecessary medical treatments and hospitalizations.

Last May we sponsored a forum at the National Press Club to amplify our research findings to health care leaders. We shared our research and offered solutions to increase the focus on adherence. This document, **State of the States: Adherence Report**, is yet another way to focus on the topic. This report looks at how patients in the 50 states are complying with their doctor's directions about taking medications. While interesting and eye-opening, this review should not be considered the definitive look at state adherence rates. Rather, it is a focused look at how patients served by CVS Caremark are behaving based on a review of our PBM claims data. The study shows how different patients in different geographies are taking – or not taking – medications under relatively similar circumstances (although plan designs may differ).

To reach these findings we reviewed our data for four common chronic disease states — hypertension, dyslipidemia (high cholesterol), diabetes and depression — diseases which make up a large portion of pharmacy care spend by our clients. Managing chronic disease is vital because more than half of U.S. citizens suffer from some form of chronic disease and the treatment for chronic diseases represents more than 75 percent of our nation's health care costs.

In this analysis, we apply a definition of adherence that represents effective care in a well managed pharmacy benefit program. Our broad definition includes medication possession ratio (MPR), an industry standard measure of how well patients are taking their medications as prescribed. In addition to MPR, we consider first fill persistency rates (FFPR), which quantify how many patients who are new to a medication continue to take it after the first time they fill their prescription. Two other measures we considered when evaluating a state's performance on adherence include the percent of prescriptions that are dispensed with the generic version of the medication and the percent of prescriptions that are dispensed through mail order pharmacies. We give weight to generic dispensing rates because several of our previously published studies found that the cost of medications are a consistent barrier to medication adherence. We are applying weight to mail order dispensing rates because our research has also found – once we get over the initial hurdle of people moving from retail to mail, an important transition in pharmacy care – that patients who are served by mail pharmacies tend to have higher adherence rates. Other groups may apply different tests and measures to their adherence rate calculations, but we believe these generally accepted measures are appropriate to determine the comparisons we present here. We provide the full methodology in the appendix of this report.

With this report we are taking our adherence message to state health policymakers. We plan to share the **State of the States: Adherence Report** widely in state and regional forums and directly with policymakers in all 50 states. We also intend to use this information to inform discussions we have with our clients about identifying ways to improve adherence rates for their plan members.

This report adds another piece of information to the growing body of knowledge that CVS Caremark is developing around why people either never start, or stop taking their chronic medications. While it is clear that there is no single answer to solving the riddle of patient behavior around medication use, this work strengthens the tool kit that health care professionals have at their disposal to tackle this problem.

The **State of the States: Adherence Report** is another step in our campaign to bring the issue of adherence to the public, policy leaders and health care professionals. We hope that by providing new views of this vexing health care issue, we will continue to spark a dialogue around how we can develop a better, more affordable and accessible health care system.

Helena B. Foulkes
EVP, Chief Health Care Strategy and Marketing Officer
CVS Caremark

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ALABAMA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	25	78.8%	29	81.0%	23	80.6%	16	74.1%	26	79.5%
PERCENT OPTIMAL MPR	41	57.6%	43	63.6%	42	63.0%	35	54.8%	41	61.2%
FIRST FILL PERSISTENCY RATE (FFPR)	40	63.7%	39	62.2%	38	61.9%	34	63.7%	38	62.5%
GENERIC DISPENSING RATE (GDR)	25	57.0%	33	64.1%	25	48.9%	41	57.8%	28	66.4%
MAIL DISPENSING RATE (MDR)	30	14.5%	35	14.1%	32	19.4%	24	12.5%	34	15.4%

*AGE AND GENDER ADJUSTED

Key Facts

- AL shows average adherence rankings across all conditions
- AL has among the highest overweight/obesity rates and the lowest rates for physical activity
- AL is in the top third of states for immunization rates and physicians per capita

Alabama
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	48.8%
OVER AGE 65	N/A	14.8%
ACTIVE (EXERCISE)	47	41.0%
OVERWEIGHT AND OBESE	50	70.0%
MEDIAN HOUSEHOLD INCOME	44	$42,652

Access to Health Care

	RANK	VALUE
IMMUNIZED	13	74.4%
HEALTH CARE COVERAGE, COMMERCIAL	36	53.5%
HEALTH CARE COVERAGE, MEDICARE	7	14.8%
HEALTH CARE COVERAGE, MEDICAID	12	16.3%
PHYSICIANS PER 10,000 RESIDENTS	14	3.25
PHYSICIANS HOME RATING (1-3)	N/A	★★★½

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ALASKA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	50	76.0%	50	78.5%	47	78.5%	48	72.5%	50	77.0%
PERCENT OPTIMAL MPR	33	60.1%	39	64.6%	35	64.3%	36	54.5%	36	61.9%
FIRST FILL PERSISTENCY RATE (FFPR)	50	59.3%	47	60.9%	49	59.1%	30	64.2%	49	60.9%
GENERIC DISPENSING RATE (GDR)	49	52.0%	46	60.1%	50	36.0%	48	53.4%	49	59.4%
MAIL DISPENSING RATE (MDR)	36	13.7%	36	14.1%	36	18.5%	38	9.5%	38	14.3%

*AGE AND GENDER ADJUSTED

Key Facts

- AK ranks among the lowest for generic dispensing for all conditions
- AK also ranks low for MPR and first fill persistency
- AK ranks as the most active state for physical activity and had high median household income

Alaska
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	50.3%
OVER AGE 65	N/A	8.5%
ACTIVE (EXERCISE)	1	60.6%
OVERWEIGHT AND OBESE	36	65.9%
MEDIAN HOUSEHOLD INCOME	5	$63,505

Access to Health Care

	RANK	VALUE
IMMUNIZED	29	68.7%
HEALTH CARE COVERAGE, COMMERCIAL	32	54.9%
HEALTH CARE COVERAGE, MEDICARE	50	7.7%
HEALTH CARE COVERAGE, MEDICAID	34	12.4%
PHYSICIANS PER 10,000 RESIDENTS	38	2.19
PHYSICIANS HOME RATING (1-3)	N/A	★★★★★

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ARIZONA

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	7	80.1%	5	83.1%	3	82.8%	20	74.0%	6	81.1%
PERCENT OPTIMAL MPR	42	57.5%	31	66.0%	33	65.5%	34	54.9%	33	62.9%
FIRST FILL PERSISTENCY RATE (FFPR)	30	64.8%	34	63.4%	22	64.3%	39	63.2%	31	63.8%
GENERIC DISPENSING RATE (GDR)	5	69.2%	16	67.0%	13	53.7%	20	64.0%	14	59.9%
MAIL DISPENSING RATE (MDR)	10	23.7%	4	27.4%	6	32.7%	8	18.0%	8	26.9%

*AGE AND GENDER ADJUSTED

Key Facts

- AZ has generally high MPR
- AZ's low rates in first fill persistency impacts optimal MPR
- Has strong mail and good generic dispensing rates

Arizona
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.7%
OVER AGE 65	N/A	14.0%
ACTIVE (EXERCISE)	27	50.5%
OVERWEIGHT AND OBESE	30	61.8%
MEDIAN HOUSEHOLD INCOME	35	$47,106

Access to Health Care

	RANK	VALUE
IMMUNIZED	20	71.9%
HEALTH CARE COVERAGE, COMMERCIAL	45	49.3%
HEALTH CARE COVERAGE, MEDICARE	42	11.1%
HEALTH CARE COVERAGE, MEDICAID	5	19.0%
PHYSICIANS PER 10,000 RESIDENTS	44	2.04
PHARMACY HOME RATING (PHR)	N/A	★★★★☆

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ARKANSAS

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	30	78.6%	36	80.3%	27	80.4%	44	73.2%	33	78.8%
PERCENT OPTIMAL MPR	37	58.5%	35	65.1%	36	64.3%	45	51.4%	40	61.5%
FIRST FILL PERSISTENCY RATE (FFPR)	13	67.6%	11	67.2%	5	68.2%	23	65.4%	9	67.1%
GENERIC DISPENSING RATE (GDR)	4	60.6%	29	64.5%	10	54.9%	32	61.4%	16	59.7%
MAIL DISPENSING RATE (MDR)	47	8.9%	48	8.1%	48	10.3%	47	6.6%	48	8.5%

*AGE AND GENDER ADJUSTED

Key Facts

- AR demonstrates average MPR and percent optimal MPR
- AR ranks in the top third for first fill persistency
- AR shows good generic dispensing rates for diabetes and dyslipidemia, but average rates for hypertension and depression

Arkansas
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	48.7%
OVER AGE 65	N/A	13.7%
ACTIVE (EXERCISE)	39	47.3%
OVERWEIGHT AND OBESE	43	67.2%
MEDIAN HOUSEHOLD INCOME	49	$39,392

Access to Health Care

	RANK	VALUE
IMMUNIZED	38	64.6%
HEALTH CARE COVERAGE, COMMERCIAL	48	47.9%
HEALTH CARE COVERAGE, MEDICARE	4	15.1%
HEALTH CARE COVERAGE, MEDICAID	13	18.2%
PHYSICIANS PER 10,000 RESIDENTS	12	3.31
PHARMACY HOME RATING (PHR)	N/A	★★★★☆

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CALIFORNIA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	38	77.9%	31	80.9%	33	80.3%	21	74.0%	30	79.2%
PERCENT OPTIMAL MPR	44	56.6%	42	63.6%	45	61.5%	42	53.0%	43	60.4%
FIRST FILL PERSISTENCY RATE (FFPR)	33	64.4%	37	62.6%	37	61.9%	48	60.2%	39	62.4%
GENERIC DISPENSING RATE (GDR)	3	60.6%	30	84.5%	14	53.4%	29	61.7%	21	68.4%
MAIL DISPENSING RATE (MDR)	43	10.2%	39	13.4%	41	16.4%	39	9.2%	40	13.2%

*ADD AND GENDER ADJUSTED

Key Facts

- CA has a lower ranking for percent optimal MPR than for MPR, indicating a possible mix of highly and poorly adherent patients
- Improved generic dispensing for hypertension and depression present opportunities for improved adherence and first fill persistency

California
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	49.8%
OVERWEIGHT	N/A	11.1%
ACTIVE (EXERCISE)	22	51.3%
OVERWEIGHT AND OBESE	13	61.6%
MEDIAN HOUSEHOLD INCOME	13	$56,862

Access to Health Care

	RANK	VALUE
IMMUNIZED	10	75.8%
HEALTH CARE COVERAGE, OVERWEIGHT	36	52.5%
HEALTH CARE COVERAGE, MEDICARE	47	9.5%
HEALTH CARE COVERAGE, MEDICAID	8	17.9%
PHYSICIANS PER 10,000 RESIDENTS	47	1.86
PHARMACY HOME RATING (HR)	N/A	★★★★☆

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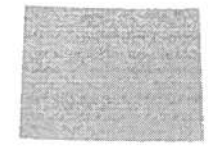
COLORADO

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	18	79.1%	10	82.7%	9	82.0%	18	74.1%	10	80.5%
PERCENT OPTIMAL MPR	22	62.0%	25	67.9%	19	69.1%	21	57.1%	19	65.6%
FIRST FILL PERSISTENCY RATE (FFPR)	17	66.9%	22	65.2%	11	65.7%	17	65.9%	20	65.7%
GENERIC DISPENSING RATE (GDR)	31	56.0%	16	87.4%	24	49.2%	31	63.9%	23	68.1%
MAIL DISPENSING RATE (MDR)	11	23.7%	6	26.7%	4	35.5%	5	20.3%	4	27.9%

*ADD AND GENDER ADJUSTED

Key Facts

- CO shows above average adherence rankings and strong performance with high cholesterol medication rates
- CO is a top performer in the area of mail dispensing
- The state leads in the areas of physical activity and low percentage of overweight and obese residents



Colorado
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.6%
OVERWEIGHT	N/A	10.8%
ACTIVE (EXERCISE)	7	57.0%
OVERWEIGHT AND OBESE	2	57.6%
MEDIAN HOUSEHOLD INCOME	9	$59,964

Access to Health Care

	RANK	VALUE
IMMUNIZED	33	67.1%
HEALTH CARE COVERAGE, OVERWEIGHT	12	61.3%
HEALTH CARE COVERAGE, MEDICARE	45	9.9%
HEALTH CARE COVERAGE, MEDICAID	43	10.5%
PHYSICIANS PER 10,000 RESIDENTS	43	2.06
PHARMACY HOME RATING (HR)	N/A	★★★★☆

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CONNECTICUT

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	9	79.7%	13	82.3%	11	81.8%	7	75.0%	8	80.6%
PERCENT OPTIMAL USE	12	64.2%	10	71.9%	10	70.2%	10	59.5%	10	68.4%
FIRST FILL PERSISTENCY RATE (FFPR)	16	67.1%	2	70.9%	3	69.5%	13	66.8%	3	69.5%
GENERIC DISPENSING RATE (GDR)	48	52.7%	37	62.8%	45	40.1%	45	56.5%	46	51.6%
MAIL DISPENSING RATE (MDR)	20	18.3%	20	19.8%	25	23.0%	29	11.6%	23	19.2%

*AGE AND GENDER ADJUSTED

Key Facts

- CT ranks well on all adherence related metrics
- CT ranks low on generic dispensing with opportunity to improve
- CT ranks high in median income, percent active population and health coverage

Demographics

	RANK	VALUE
MALE	N/A	48.5%
FEMALE	N/A	51.3%
ACTIVE (EXERCISE)	10	53.9%
OVERWEIGHT OR OBESE	7	60.5%
MEDIAN HOUSEHOLD INCOME	2	$65,213

Access to Health Care

	RANK	VALUE
IMMUNIZED	50	48.4%
HEALTH CARE COVERAGE, COMMERCIAL	3	64.1%
HEALTH CARE COVERAGE, MEDICARE	18	13.8%
HEALTH CARE COVERAGE, MEDICAID	42	19.7%
PHYSICIANS PER 10,000 RESIDENTS	36	2.26
PHARMACY HOME RATING (PHR)	N/A	★★★★

Connecticut
STATE RATING
GOLD

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DELAWARE

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	10	79.7%	16	81.9%	6	82.4%	15	74.3%	9	80.5%
PERCENT OPTIMAL USE	29	60.5%	28	67.5%	15	68.6%	26	56.1%	22	65.2%
FIRST FILL PERSISTENCY RATE (FFPR)	48	60.7%	36	62.6%	20	64.6%	45	61.0%	37	62.5%
GENERIC DISPENSING RATE (GDR)	42	54.1%	44	61.3%	49	50.3%	36	59.2%	48	60.4%
MAIL DISPENSING RATE (MDR)	2	33.2%	2	33.1%	2	41.5%	3	21.2%	2	33.8%

*AGE AND GENDER ADJUSTED

Key Facts

- DE has excellent mail dispensing rates but low generic dispensing rates, providing a mixed environment for adherence
- This impacts adherence and first fill persistency

Demographics

	RANK	VALUE
MALE	N/A	48.1%
FEMALE	N/A	51.6%
ACTIVE (EXERCISE)	25	50.9%
OVERWEIGHT OR OBESE	24	64.0%
MEDIAN HOUSEHOLD INCOME	17	$53,032

Access to Health Care

	RANK	VALUE
IMMUNIZED	31	67.2%
HEALTH CARE COVERAGE, COMMERCIAL	24	58.3%
HEALTH CARE COVERAGE, MEDICARE	8	14.7%
HEALTH CARE COVERAGE, MEDICAID	26	13.9%
PHYSICIANS PER 10,000 RESIDENTS	32	2.40
PHARMACY HOME RATING (PHR)	N/A	★★★★

Delaware
STATE RATING
SILVER

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FLORIDA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	26	78.8%	23	81.8%	18	81.2%	9	74.7%	17	80.0%
[illegible]	38	58.4%	38	65.0%	38	63.7%	31	55.0%	33	62.2%
FIRST FILL PERSISTENCY RATE (FFPR)	10	68.3%	17	66.0%	18	64.9%	21	65.6%	18	66.0%
[illegible]	34	50.0%	41	62.0%	37	44.8%	34	60.4%	39	64.1%
MAIL DISPENSING RATE (MDR)	26	16.4%	26	18.6%	23	23.9%	25	12.5%	25	19.0%

*[illegible]

Key Facts

- While in the middle tier of adherence, patients on depression therapies achieved better than average adherence
- There is an opportunity to improve generic dispensing rates, which would impact adherence rating

Florida

STATE RATING

SILVER

Demographics

	RANK	VALUE
MALE	N/A	48.8%
[illegible]	N/A	77.1%
ACTIVE (EXERCISE)	37	47.8%
[illegible]	24	65.0%
MEDIAN HOUSEHOLD INCOME	38	$45,897

Access to Health Care

	RANK	VALUE
IMMUNIZED	5	77.9%
[illegible]	46	49.0%
HEALTH CARE COVERAGE, MEDICARE	2	16.4%
[illegible]	38	11.0%
PHYSICIANS PER 10,000 RESIDENTS	21	2.87
[illegible]	N/A	[illegible]

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GEORGIA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	39	77.8%	45	79.7%	24	80.6%	43	73.2%	38	78.6%
[illegible]	46	55.2%	47	61.2%	46	61.1%	44	53.9%	46	58.8%
FIRST FILL PERSISTENCY RATE (FFPR)	45	61.6%	44	61.3%	47	60.1%	44	61.1%	47	61.0%
[illegible]	26	56.6%	39	62.3%	35	45.2%	27	62.1%	36	65.1%
MAIL DISPENSING RATE (MDR)	18	19.2%	23	19.3%	19	25.4%	15	14.4%	18	20.2%

*[illegible]

Key Facts

- GA generally scores below average on adherence metrics across all conditions
- GA achieves average rankings on immunization rates and percent overweight/obese

Georgia

STATE RATING

BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.2%
[illegible]	N/A	9.2%
ACTIVE (EXERCISE)	42	45.7%
[illegible]	31	65.7%
MEDIAN HOUSEHOLD INCOME	37	$46,570

Access to Health Care

	RANK	VALUE
IMMUNIZED	23	71.0%
[illegible]	30	50.1%
HEALTH CARE COVERAGE, MEDICARE	48	9.4%
[illegible]	31	13.0%
PHYSICIANS PER 10,000 RESIDENTS	26	2.59
[illegible]	N/A	[illegible]

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HAWAII

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	1	85.0%	1	88.5%	1	86.6%	1	81.2%	1	86.8%
PERCENT OPTIMAL MPR	15	63.7%	13	70.6%	9	70.8%	13	59.0%	9	63.8%
FIRST FILL PERSISTENCY RATE (FFPR)	18	66.7%	50	58.7%	19	64.7%	47	60.6%	44	61.6%
GENERIC DISPENSING RATE (GDR)	18	57.6%	49	79.4%	18	52.3%	42	57.7%	35	65.2%
MAIL DISPENSING RATE (MDR)	6	25.6%	11	24.7%	12	29.2%	10	17.1%	10	25.8%

*AGE AND GENDER ADJUSTED

Key Facts

- HI ranks at the top of the states for MPR, but medium to poor for first fill persistency rates
- HI's low generic dispensing for hypertension and depression medications corresponds with the low first fill persistency rates for those therapies
- HI has the lowest rate of overweight/obesity among the states

Hawaii
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	48.2%
OVERWEIGHT	N/A	16.2%
ACTIVE (EXERCISE)	13	53.2%
OVERWEIGHT AND OBESE	1	57.2%
MEDIAN HOUSEHOLD INCOME	7	$61,055

Access to Health Care

	RANK	VALUE
IMMUNIZED	34	66.9%
HEALTH CARE COVERAGE, COMMERCIAL	16	59.8%
HEALTH CARE COVERAGE, MEDICARE	9	14.7%
HEALTH CARE COVERAGE, MEDICAID	24	14.4%
PHYSICIANS PER 10,000 RESIDENTS	35	2.29
PHARMACY HOME RATING (%)	N/A	★★★★★

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IDAHO

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	43	77.2%	30	81.0%	34	80.2%	24	73.9%	35	78.6%
PERCENT OPTIMAL MPR	32	60.2%	27	67.7%	20	67.5%	17	58.5%	27	64.5%
FIRST FILL PERSISTENCY RATE (FFPR)	21	66.1%	21	65.2%	30	63.0%	24	65.1%	23	64.9%
GENERIC DISPENSING RATE (GDR)	26	56.3%	20	86.1%	8	55.1%	17	65.2%	16	69.3%
MAIL DISPENSING RATE (MDR)	19	18.7%	19	19.9%	18	25.6%	27	12.1%	22	19.4%

*AGE AND GENDER ADJUSTED

Key Facts

- ID ranks in the middle of the states on virtually all adherence metrics
- ID is in the top five percent of people who exercise, but has low availability of physicians per capita

Idaho
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.7%
OVERWEIGHT	N/A	12.3%
ACTIVE (EXERCISE)	5	57.5%
OVERWEIGHT AND OBESE	16	62.9%
MEDIAN HOUSEHOLD INCOME	29	$48,299

Access to Health Care

	RANK	VALUE
IMMUNIZED	46	56.6%
HEALTH CARE COVERAGE, COMMERCIAL	20	59.0%
HEALTH CARE COVERAGE, MEDICARE	35	12.2%
HEALTH CARE COVERAGE, MEDICAID	33	12.5%
PHYSICIANS PER 10,000 RESIDENTS	39	2.19
PHARMACY HOME RATING (%)	N/A	★★★★★

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ILLINOIS

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	15	79.3%	20	81.7%	16	81.5%	13	74.4%	13	80.3%
PERCENT OPTIMAL MPR	20	62.1%	18	68.7%	22	67.2%	23	56.8%	18	65.7%
FIRST FILL PERSISTENCY RATE (FFPR)	38	63.8%	31	64.0%	33	62.7%	32	63.9%	33	63.7%
GENERIC DISPENSING RATE (GDR)	8	59.0%	27	64.7%	39	43.7%	35	59.4%	34	65.3%
MAIL DISPENSING RATE (MDR)	3	31.7%	3	31.4%	3	38.3%	2	22.8%	3	32.3%

*AGE AND GENDER ADJUSTED

Key Facts

- IL achieves good rankings on MPR but does not have correspondingly good first fill persistency rates
- Mail dispensing rates are very good, as is generic dispensing for diabetes medications
- Improvements could be made to bring generic dispensing rates up for the other therapies

Illinois
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	48.9%
OVERWEIGHT	N/A	11.3%
ACTIVE (EXERCISE)	20	51.8%
OVERWEIGHT PROCESSED	19	63.2%
MEDIAN HOUSEHOLD INCOME	16	$53,413

Access to Health Care

	RANK	VALUE
IMMUNIZED	14	74.4%
HEALTH CARE COVERAGE, COMMERCIAL	18	59.2%
HEALTH CARE COVERAGE, MEDICARE	40	11.8%
HEALTH CARE COVERAGE, MEDICAID	20	14.5%
PHYSICIANS PER 10,000 RESIDENTS	25	2.62
PHARMACY HOME RATING (PHR)	N/A	★★★★☆

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INDIANA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	20	79.1%	26	81.3%	21	80.8%	37	73.5%	27	79.4%
PERCENT OPTIMAL MPR	26	61.5%	23	68.2%	25	60.9%	33	54.9%	26	64.6%
FIRST FILL PERSISTENCY RATE (FFPR)	26	65.4%	28	64.6%	15	65.4%	29	64.2%	25	64.8%
GENERIC DISPENSING RATE (GDR)	14	58.1%	26	84.8%	33	46.1%	31	61.5%	30	66.2%
MAIL DISPENSING RATE (MDR)	5	26.3%	10	25.5%	9	31.7%	9	17.6%	9	25.9%

*AGE AND GENDER ADJUSTED

Key Facts

- IN has average rankings for all adherence metrics
- Above average mail dispensing rates are not translating into better adherence for the state

Indiana
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.1%
OVERWEIGHT	N/A	13.3%
ACTIVE (EXERCISE)	36	48.0%
OVERWEIGHT PROCESSED	39	66.4%
MEDIAN HOUSEHOLD INCOME	36	$46,579

Access to Health Care

	RANK	VALUE
IMMUNIZED	25	69.7%
HEALTH CARE COVERAGE, COMMERCIAL	27	57.3%
HEALTH CARE COVERAGE, MEDICARE	16	13.9%
HEALTH CARE COVERAGE, MEDICAID	17	15.0%
PHYSICIANS PER 10,000 RESIDENTS	24	2.69
PHARMACY HOME RATING (PHR)	N/A	★★★★☆

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IOWA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	37	77.9%	39	80.2%	43	79.1%	41	73.3%	42	78.1%
PERCENT OPTIMAL MPR	9	65.4%	12	70.7%	13	68.8%	14	58.7%	13	67.0%
FIRST FILL PERSISTENCY RATE (FFPR)	6	69.7%	19	65.7%	21	64.5%	8	67.5%	14	66.3%
GENERIC DISPENSING RATE (GDR)	37	55.5%	9	69.1%	9	54.9%	18	64.8%	12	70.4%
MAIL DISPENSING RATE (MDR)	24	18.1%	22	19.5%	26	22.7%	31	11.0%	26	18.4%

*ADJ. AND GENDER ADJUSTED

Key Facts

- IA ranks mid to low on MPR rates, but exhibits good percent optimal MPR and first fill persistency rates
- The generic dispensing rate for diabetes is notably lower than for the other conditions

Iowa

STATE RATING

SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.8%
OVER AGE 65	N/A	12.4%
ACTIVE (EXERCISE)	30	49.6%
OVERWEIGHT AND OBESE	38	66.2%
MEDIAN HOUSEHOLD INCOME	22	$50,422

Access to Health Care

	RANK	VALUE
IMMUNIZED	35	66.9%
HEALTH CARE COVERAGE, COMMERCIAL	7	63.5%
HEALTH CARE COVERAGE, MEDICARE	34	12.3%
HEALTH CARE COVERAGE, MEDICAID	32	12.9%
PHYSICIANS PER 10,000 RESIDENTS	10	3.42
PHARMACY HOME RATING (US)	N/A	★★★★☆

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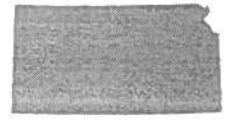
KANSAS

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	42	77.4%	37	80.3%	40	79.4%	49	72.1%	44	78.0%
PERCENT OPTIMAL MPR	23	61.9%	24	68.1%	31	66.0%	32	54.9%	29	64.1%
FIRST FILL PERSISTENCY RATE (FFPR)	32	64.6%	32	63.9%	26	63.5%	12	66.8%	26	64.5%
GENERIC DISPENSING RATE (GDR)	38	55.2%	22	65.3%	23	49.4%	26	62.3%	26	56.8%
MAIL DISPENSING RATE (MDR)	34	13.8%	32	15.8%	34	19.0%	33	10.6%	33	15.4%

*ADJ. AND GENDER ADJUSTED

Key Facts

- KS achieves average to below average rankings for MPR, percent optimal MPR and first fill persistency across all conditions
- Generic and mail dispensing rates are also average



Kansas

STATE RATING

BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.5%
OVER AGE 65	N/A	12.0%
ACTIVE (EXERCISE)	33	48.4%
OVERWEIGHT AND OBESE	25	64.5%
MEDIAN HOUSEHOLD INCOME	32	$47,527

Access to Health Care

	RANK	VALUE
IMMUNIZED	6	77.5%
HEALTH CARE COVERAGE, COMMERCIAL	14	61.1%
HEALTH CARE COVERAGE, MEDICARE	31	12.7%
HEALTH CARE COVERAGE, MEDICAID	40	11.1%
PHYSICIANS PER 10,000 RESIDENTS	8	3.59
PHARMACY HOME RATING (US)	N/A	★★★★★

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KENTUCKY

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	28	78.8%	27	81.1%	30	80.3%	19	74.1%	29	79.3%
PERCENT OPTIMAL MPR	34	59.9%	33	65.3%	37	64.1%	43	52.6%	34	62.0%
FIRST FILL PERSISTENCY RATE (FFPR)	39	63.7%	30	64.0%	32	62.8%	33	63.7%	32	63.7%
GENERIC DISPENSING RATE (GDR)	22	57.3%	21	65.4%	41	49.7%	24	63.4%	32	65.8%
MAIL DISPENSING RATE (MDR)	22	18.2%	25	19.0%	24	23.3%	20	13.8%	24	19.2%

*AGE AND GENDER ADJUSTED

Key Facts

- KY ranks in the middle of the states on virtually all of the adherence metrics
- KY has a relatively high availability of physicians per capita, but ranks lower in physical activity and has a more obese and overweight population than most other states

Kentucy
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.1%
OVERWEIGHT	N/A	13.6%
ACTIVE (EXERCISE)	43	45.6%
OVERWEIGHT AND OBESE	46	67.5%
MEDIAN HOUSEHOLD INCOME	46	$41,489

Access to Health Care

	RANK	VALUE
IMMUNIZED	32	67.2%
HEALTH CARE COVERAGE, COMMERCIAL	37	52.6%
HEALTH CARE COVERAGE, MEDICARE	19	13.7%
HEALTH CARE COVERAGE, MEDICAID	10	16.7%
PHYSICIANS PER 10,000 RESIDENTS	13	3.27
PHARMACY HOME RATING (US)	N/A	★★★★☆

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LOUISIANA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	41	77.6%	43	79.9%	49	78.3%	14	74.4%	41	78.2%
PERCENT OPTIMAL MPR	45	56.2%	46	61.4%	44	61.7%	38	53.3%	45	59.4%
FIRST FILL PERSISTENCY RATE (FFPR)	23	65.8%	35	62.9%	34	62.7%	43	61.9%	36	63.1%
GENERIC DISPENSING RATE (GDR)	20	57.6%	43	61.6%	36	45.1%	50	52.4%	41	63.5%
MAIL DISPENSING RATE (MDR)	44	9.9%	44	10.9%	43	15.3%	40	9.2%	43	11.7%

*AGE AND GENDER ADJUSTED

Key Facts

- LA shows below average adherence rates across all conditions except depression MPR, even though the state has low generic dispensing rates for that disease
- LA ranks high on overweight/obesity rate and low on physical activity. The state also ranks high on immunization rates and physicians per capita

Louisiana
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.1%
OVERWEIGHT	N/A	12.5%
ACTIVE (EXERCISE)	46	43.5%
OVERWEIGHT AND OBESE	40	66.4%
MEDIAN HOUSEHOLD INCOME	45	$42,528

Access to Health Care

	RANK	VALUE
IMMUNIZED	7	77.2%
HEALTH CARE COVERAGE, COMMERCIAL	40	52.3%
HEALTH CARE COVERAGE, MEDICARE	27	12.9%
HEALTH CARE COVERAGE, MEDICAID	14	16.1%
PHYSICIANS PER 10,000 RESIDENTS	9	3.53
PHARMACY HOME RATING (US)	N/A	★★★★☆

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MAINE

Adherence	Diabetes RANK	Diabetes VALUE	Hypertension RANK	Hypertension VALUE	Dyslipidemia RANK	Dyslipidemia VALUE	Depression RANK	Depression VALUE	Overall RANK	Overall VALUE
MEDICATION POSSESSION RATIO (MPR)*	6	80.5%	3	84.3%	2	82.8%	10	74.7%	3	81.7%
[illegible]	2	70.2%	3	76.5%	3	74.7%	6	61.2%	3	72.3%
FIRST FILL PERSISTENCY RATE (FFPR)	5	70.2%	5	68.5%	27	63.5%	6	67.6%	7	67.5%
[illegible]	5	59.9%	4	90.3%	17	52.4%	12	67.8%	9	71.0%
MAIL DISPENSING RATE (MDR)	29	15.0%	29	17.1%	31	19.6%	21	13.7%	29	17.1%

*AGE AND GENDER ADJUSTED

Key Facts

- ME achieves good adherence across all conditions with correspondingly high generic dispensing rates
- Increasing mail dispensing rates could provide opportunities for even better adherence

Maine
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	48.8%
[illegible]	N/A	16.1%
ACTIVE (EXERCISE)	9	56.2%
[illegible]	22	63.7%
MEDIAN HOUSEHOLD INCOME	30	$48,032

Access to Health Care

	RANK	VALUE
IMMUNIZED	48	55.4%
[illegible]	41	52.2%
HEALTH CARE COVERAGE, MEDICARE	15	13.9%
[illegible]	2	21.5%
PHYSICIANS PER 10,000 RESIDENTS	23	2.72
[illegible]	N/A	★★★

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MARYLAND

Adherence	Diabetes RANK	Diabetes VALUE	Hypertension RANK	Hypertension VALUE	Dyslipidemia RANK	Dyslipidemia VALUE	Depression RANK	Depression VALUE	Overall RANK	Overall VALUE
MEDICATION POSSESSION RATIO (MPR)*	34	78.2%	41	80.1%	38	79.7%	33	73.6%	34	78.7%
[illegible]	31	60.3%	32	65.9%	30	66.0%	25	56.6%	31	63.8%
FIRST FILL PERSISTENCY RATE (FFPR)	42	63.1%	41	61.7%	43	60.6%	40	63.2%	42	61.8%
[illegible]	41	54.2%	46	79.8%	46	37.6%	39	58.4%	47	60.5%
MAIL DISPENSING RATE (MDR)	8	24.6%	8	26.4%	5	33.5%	4	20.8%	5	27.5%

*AGE AND GENDER ADJUSTED

Key Facts

- MD's good mail dispensing rates do not translate into high performance on the adherence metrics
- MD ranks medium to low on MPR and first fill persistency and low on generic dispensing
- MD ranks among the top states on median income, immunization rate and commercial health coverage

Maryland
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.1%
[illegible]	N/A	11.6%
ACTIVE (EXERCISE)	31	48.6%
[illegible]	37	66.1%
MEDIAN HOUSEHOLD INCOME	3	$65,183

Access to Health Care

	RANK	VALUE
IMMUNIZED	3	80.5%
[illegible]	4	64.7%
HEALTH CARE COVERAGE, MEDICARE	43	10.9%
[illegible]	45	10.2%
PHYSICIANS PER 10,000 RESIDENTS	41	2.09
[illegible]	N/A	★★★★

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MASSACHUSETTS

Adherence	Diabetes RANK	Diabetes VALUE	Hypertension RANK	Hypertension VALUE	Dyslipidemia RANK	Dyslipidemia VALUE	Depression RANK	Depression VALUE	Overall RANK	Overall VALUE
MEDICATION POSSESSION RATIO (MPR)*	3	81.0%	4	84.1%	5	82.5%	11	74.7%	4	81.7%
PERCENT OPTIMAL MPR	10	64.8%	6	73.6%	7	71.2%	9	59.6%	7	69.6%
FIRST FILL PERSISTENCY RATE (FFPR)	12	67.8%	9	67.7%	24	63.7%	15	66.4%	13	66.7%
GENERIC DISPENSING RATE (GDR)	2	82.5%	2	82.4%	1	84.4%	1	81.3%	1	78.7%
MAIL DISPENSING RATE (MDR)	42	10.4%	43	11.5%	44	14.5%	45	7.0%	44	11.6%

*AGE AND GENDER ADJUSTED

Key Facts

- MA has good adherence across all conditions with correspondingly high generic dispensing rates
- Increasing mail dispensing rates could provide opportunities for even better adherence
- MA ranks among the top states for median household income, percent immunized population and commercial health care coverage

Massachusetts
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	48.8%
OVER 60 (%)	N/A	14.6%
ACTIVE (EXERCISE)	15	52.9%
OVERWEIGHT AND OBESE	5	62.1%
MEDIAN HOUSEHOLD INCOME	8	$59,981

Access to Health Care

	RANK	VALUE
IMMUNIZED	1	84.9%
HEALTH CARE COVERAGE, COMMERCIAL	8	62.5%
HEALTH CARE COVERAGE, MEDICARE	23	13.4%
HEALTH CARE COVERAGE, MEDICAID	7	18.7%
PHYSICIANS PER 10,000 RESIDENTS	34	2.35
PHARMACY HOME RATING (%)	N/A	★★★★★

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MICHIGAN

Adherence	Diabetes RANK	Diabetes VALUE	Hypertension RANK	Hypertension VALUE	Dyslipidemia RANK	Dyslipidemia VALUE	Depression RANK	Depression VALUE	Overall RANK	Overall VALUE
MEDICATION POSSESSION RATIO (MPR)*	49	76.2%	48	79.1%	50	78.0%	50	71.6%	49	77.0%
PERCENT OPTIMAL MPR	35	59.7%	40	64.4%	34	64.5%	50	41.5%	44	56.5%
FIRST FILL PERSISTENCY RATE (FFPR)	46	61.6%	42	61.4%	36	62.2%	36	63.6%	41	61.9%
GENERIC DISPENSING RATE (GDR)	21	57.5%	13	67.8%	12	54.0%	9	68.2%	10	70.8%
MAIL DISPENSING RATE (MDR)	28	15.0%	27	17.8%	27	22.3%	28	11.8%	27	17.6%

*AGE AND GENDER ADJUSTED

Key Facts

- MI's lower first fill persistency rates are contributing to lower MPRs
- MI's good generic dispensing rates are not translating into good adherence metrics

Michigan
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.8%
OVER 60 (%)	N/A	12.2%
ACTIVE (EXERCISE)	19	51.9%
OVERWEIGHT AND OBESE	42	66.5%
MEDIAN HOUSEHOLD INCOME	27	$48,888

Access to Health Care

	RANK	VALUE
IMMUNIZED	18	73.4%
HEALTH CARE COVERAGE, COMMERCIAL	21	58.0%
HEALTH CARE COVERAGE, MEDICARE	21	13.5%
HEALTH CARE COVERAGE, MEDICAID	21	14.5%
PHYSICIANS PER 10,000 RESIDENTS	27	2.59
PHARMACY HOME RATING (%)	N/A	★★★★★

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MINNESOTA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	13	79.4%	8	82.8%	13	81.6%	29	73.8%	14	80.1%
[illegible]	5	69.1%	5	74.3%	4	74.5%	4	61.7%	5	71.1%
FIRST FILL PERSISTENCY RATE (FFPR)	9	68.6%	6	68.2%	7	67.1%	10	67.2%	5	67.8%
[illegible]	17	57.9%	1	92.6%	2	60.4%	2	74.5%	2	75.8%
MAIL DISPENSING RATE (MDR)	23	18.1%	15	21.8%	20	25.3%	32	10.7%	19	20.1%

*AGE AND GENDER ADJUSTED

Key Facts

- MN ranks above average on all adherence related metrics across all conditions
- MN has excellent generic dispensing rates with room for improvement in diabetes therapies

Minnesota
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.3%
[illegible]	N/A	13.0%
ACTIVE (EXERCISE)	17	52.7%
[illegible]	17	63.1%
MEDIAN HOUSEHOLD INCOME	12	$59,956

Access to Health Care

	RANK	VALUE
IMMUNIZED	43	61.2%
HEALTH CARE COVERAGE, COMMERCIAL	6	63.9%
HEALTH CARE COVERAGE, MEDICARE	32	12.7%
HEALTH CARE COVERAGE, MEDICAID	27	13.9%
PHYSICIANS PER 10,000 RESIDENTS	19	2.96
PHARMACY HOME RATING (1-5)	N/A	★★★★☆

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MISSISSIPPI

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	44	77.2%	47	79.3%	45	78.9%	27	73.8%	45	78.0%
[illegible]	48	53.6%	50	58.6%	48	58.6%	48	50.1%	48	56.6%
FIRST FILL PERSISTENCY RATE (FFPR)	31	64.7%	46	61.2%	46	60.2%	49	59.6%	45	61.2%
[illegible]	32	56.0%	47	60.0%	42	42.0%	49	52.8%	44	62.4%
MAIL DISPENSING RATE (MDR)	38	13.1%	38	13.5%	35	18.9%	26	12.3%	36	14.7%

*AGE AND GENDER ADJUSTED

Key Facts

- MS ranks low on all adherence metrics except MPR for depression and first fill persistency rates for diabetes
- MS ranks near the bottom for physical activity, has a high percentage of population overweight/obese and lower levels of commercial health coverage

Mississippi
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	47.6%
[illegible]	N/A	13.21%
ACTIVE (EXERCISE)	48	37.4%
[illegible]	49	68.8%
MEDIAN HOUSEHOLD INCOME	50	$36,650

Access to Health Care

	RANK	VALUE
IMMUNIZED	15	74.4%
HEALTH CARE COVERAGE, COMMERCIAL	49	45.8%
HEALTH CARE COVERAGE, MEDICARE	28	12.9%
HEALTH CARE COVERAGE, MEDICAID	1	22.2%
PHYSICIANS PER 10,000 RESIDENTS	3	4.36
PHARMACY HOME RATING (1-5)	N/A	★★★☆☆

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MISSOURI

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	17	79.1%	19	81.8%	17	81.3%	38	73.5%	20	79.8%
PERCENT OPTIMAL MPR	25	61.6%	22	68.3%	27	66.6%	30	55.0%	25	64.6%
FIRST FILL PERSISTENCY RATE (FFPR)	34	64.4%	29	64.2%	31	62.9%	26	64.6%	29	64.0%
GENERIC DISPENSING RATE (GDR)	7	59.5%	17	87.1%	19	52.3%	19	64.5%	15	69.8%
MAIL DISPENSING RATE (MDR)	14	21.6%	14	22.2%	15	26.6%	12	16.2%	14	22.3%

*AGE AND GENDER ADJUSTED

Key Facts

- MO has generally good adherence, with the biggest opportunities for improvement in depression MPR and diabetes first fill persistency
- Generic and mail dispensing rates are generally good across these four therapies

Missouri
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.1%
OBSERVATIONS	N/A	13.1%
ACTIVE (EXERCISE)	29	49.9%
DEPRESSION AND OBESE	34	65.8%
MEDIAN HOUSEHOLD INCOME	33	$47,408

Access to Health Care

	RANK	VALUE
IMMUNIZED	39	63.4%
HEALTH CARE COVERAGE, COMMERCIAL	28	57.0%
HEALTH CARE COVERAGE, MEDICARE	14	14.0%
HEALTH CARE COVERAGE, MEDICAID	28	13.8%
PHYSICIANS PER 10,000 RESIDENTS	15	3.19
PHARMACY HOME RATING (1-5)	N/A	★★★★☆

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MONTANA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	40	77.6%	40	80.2%	42	79.1%	45	73.0%	46	77.9%
PERCENT OPTIMAL MPR	11	64.6%	16	69.2%	18	68.0%	15	58.6%	16	65.9%
FIRST FILL PERSISTENCY RATE (FFPR)	4	70.7%	8	67.9%	13	65.6%	18	65.9%	8	67.3%
GENERIC DISPENSING RATE (GDR)	27	56.6%	14	87.8%	7	55.3%	23	63.8%	11	70.4%
MAIL DISPENSING RATE (MDR)	39	12.1%	40	13.2%	38	17.2%	36	9.6%	39	13.3%

*AGE AND GENDER ADJUSTED

Key Facts

- MT displays a mix of very good first fill persistency with low MPR
- An improvement in mail dispensing rates could positively impact MPR for this state

Montana
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	50.4%
OBSERVATIONS	N/A	15.0%
ACTIVE (EXERCISE)	2	58.6%
DEPRESSION AND OBESE	11	61.3%
MEDIAN HOUSEHOLD INCOME	43	$42,778

Access to Health Care

	RANK	VALUE
IMMUNIZED	44	60.1%
HEALTH CARE COVERAGE, COMMERCIAL	33	54.3%
HEALTH CARE COVERAGE, MEDICARE	3	15.8%
HEALTH CARE COVERAGE, MEDICAID	37	11.8%
PHYSICIANS PER 10,000 RESIDENTS	6	3.92
PHARMACY HOME RATING (1-5)	N/A	★★★★★

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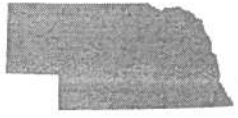
NEBRASKA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	45	77.0%	35	80.3%	41	79.2%	31	73.7%	40	78.3%
PERCENT OPTIMAL MPR	24	61.7%	20	68.7%	23	67.1%	16	58.6%	21	65.4%
FIRST FILL PERSISTENCY RATE (FFPR)	24	65.6%	14	66.5%	16	65.2%	20	65.7%	19	65.9%
GENERIC DISPENSING RATE (GDR)	44	53.7%	23	65.2%	34	45.7%	44	57.2%	37	64.5%
MAIL DISPENSING RATE (MDR)	37	13.6%	34	15.3%	37	18.0%	35	9.9%	35	14.8%

*AGE AND GENDER ADJUSTED

Key Facts

- NE ranks high on first fill persistency compared to MPR, helping to improve the percent optimal MPR rates
- NE ranks among the top ten states on commercial health coverage and physicians per capita



Nebraska
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	49.7%
[illegible]	[illegible]	[illegible]
ACTIVE (EXERCISE)	24	51.0%
[illegible]	27	[illegible]
MEDIAN HOUSEHOLD INCOME	24	$50,333

Access to Health Care

	RANK	VALUE
IMMUNIZED	40	62.9%
HEALTH CARE COVERAGE, COMMERCIAL	9	62.4%
HEALTH CARE COVERAGE, MEDICARE	29	12.8%
HEALTH CARE COVERAGE, MEDICAID	39	11.3%
PHYSICIANS PER 10,000 RESIDENTS	4	4.14
PHARMACY HOME RATING (HR)	N/A	★★★★

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NEVADA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	4	80.6%	9	82.7%	8	82.2%	30	73.7%	7	80.9%
PERCENT OPTIMAL MPR	40	57.9%	37	64.7%	39	63.6%	40	53.1%	37	61.8%
FIRST FILL PERSISTENCY RATE (FFPR)	25	65.5%	20	65.5%	25	63.6%	31	63.9%	24	64.9%
GENERIC DISPENSING RATE (GDR)	16	57.9%	34	84.0%	26	48.4%	16	65.3%	25	67.0%
MAIL DISPENSING RATE (MDR)	7	25.4%	9	25.7%	10	30.2%	11	16.3%	11	25.7%

*AGE AND GENDER ADJUSTED

Key Facts

- NV ranks high on MPR for most conditions, but does not achieve correspondingly high rankings on percent optimal MPR
- Mail dispensing rates are excellent, with room for improvement on generic dispensing

Nevada
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	50.4%
[illegible]	N/A	11.4%
ACTIVE (EXERCISE)	21	51.4%
[illegible]	6	60.2%
MEDIAN HOUSEHOLD INCOME	14	$53,964

Access to Health Care

	RANK	VALUE
IMMUNIZED	41	62.6%
HEALTH CARE COVERAGE, COMMERCIAL	23	58.9%
HEALTH CARE COVERAGE, MEDICARE	44	10.6%
HEALTH CARE COVERAGE, MEDICAID	47	9.3%
PHYSICIANS PER 10,000 RESIDENTS	46	1.94
PHARMACY HOME RATING (HR)	N/A	★★★★

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NEW HAMPSHIRE

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	5	80.5%	12	82.6%	10	81.9%	22	73.9%	12	80.4%
PERCENT OPTIMAL MPR	1	72.8%	1	77.6%	2	76.7%	2	64.6%	2	74.1%
FIRST FILL PERSISTENCY RATE (FFPR)	1	72.3%	1	71.2%	4	69.2%	2	70.2%	1	70.7%
GENERIC DISPENSING RATE (GDR)	11	58.7%	11	89.0%	32	46.4%	8	68.3%	20	68.8%
MAIL DISPENSING RATE (MDR)	1	38.0%	1	36.3%	1	41.8%	1	25.5%	1	35.9%

*AGE AND GENDER ADJUSTED

Key Facts

- NH achieves above average adherence rankings with correspondingly high generic and mail dispensing rates
- NH ranks high among the top states for median household income, percent immunized population and commercial health care coverage

New Hampshire
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.3%
OVER 40 LBS	N/A	12.6%
ACTIVE (EXERCISE)	12	53.3%
OVERWEIGHT AND OBESE	18	63.1%
MEDIAN HOUSEHOLD INCOME	1	$66,654

Access to Health Care

	RANK	VALUE
IMMUNIZED	2	82.7%
HEALTH CARE COVERAGE, COMMERCIAL	2	67.8%
HEALTH CARE COVERAGE, MEDICARE	22	13.5%
HEALTH CARE COVERAGE, MEDICAID	50	7.5%
PHYSICIANS PER 10,000 RESIDENTS	40	2.16
PHARMACY HOME RATING (HR)	N/A	★★★★½

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NEW JERSEY

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	14	79.4%	22	81.7%	28	80.4%	5	75.3%	16	80.1%
PERCENT OPTIMAL MPR	21	62.0%	17	68.9%	29	66.1%	24	56.7%	20	65.5%
FIRST FILL PERSISTENCY RATE (FFPR)	28	64.9%	40	61.8%	48	59.3%	42	62.8%	43	61.6%
GENERIC DISPENSING RATE (GDR)	50	51.6%	50	76.3%	48	36.4%	47	55.1%	50	57.8%
MAIL DISPENSING RATE (MDR)	40	12.0%	42	12.5%	40	16.4%	43	8.3%	41	13.0%

*AGE AND GENDER ADJUSTED

Key Facts

- NJ has average rankings for adherence and better than average MPR for depression therapies
- NJ shows room for improvement on first fill persistency
- Improved generic and mail dispensing rates could positively impact adherence and first fill persistency

New Jersey
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.7%
OVER 40 LBS	N/A	12.6%
ACTIVE (EXERCISE)	38	47.5%
OVERWEIGHT AND OBESE	14	61.6%
MEDIAN HOUSEHOLD INCOME	4	$64,143

Access to Health Care

	RANK	VALUE
IMMUNIZED	26	69.4%
HEALTH CARE COVERAGE, COMMERCIAL	10	62.2%
HEALTH CARE COVERAGE, MEDICARE	36	12.2%
HEALTH CARE COVERAGE, MEDICAID	44	10.4%
PHYSICIANS PER 10,000 RESIDENTS	30	2.42
PHARMACY HOME RATING (HR)	N/A	★★★★½

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NEW MEXICO

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	48	76.3%	33	80.6%	48	78.5%	39	73.4%	43	78.1%
PERCENT OPTIMAL MPR	50	51.3%	49	58.9%	49	57.7%	49	48.2%	50	55.4%
FIRST FILL PERSISTENCY RATE (FFPR)	49	59.4%	49	60.0%	39	61.7%	50	55.5%	50	59.4%
GENERIC DISPENSING RATE (GDR)	12	58.7%	7	69.1%	5	57.2%	11	66.0%	5	73.2%
MAIL DISPENSING RATE (MDR)	49	6.3%	47	9.4%	47	12.6%	48	6.5%	47	9.2%

*AGE AND GENDER ADJUSTED

Key Facts

- NM ranks low on MPR, percent optimal MPR and first fill persistency
- Generic dispensing rates are very good
- NM has the lowest percent of population with commercial health coverage and ranks among the bottom five states on the number of physicians per capita

New Mexico
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.6%
OVERWEIGHT	N/A	12.9%
ACTIVE (EXERCISE)	14	53.2%
COMPRESSED AND CALLED	8	60.7%
MEDIAN HOUSEHOLD INCOME	40	$43,790

Access to Health Care

	RANK	VALUE
IMMUNIZED	27	69.4%
HEALTH CARE COVERAGE, COMMERCIAL	50	43.8%
HEALTH CARE COVERAGE, MEDICARE	39	12.0%
HEALTH CARE COVERAGE, MEDICAID	6	18.7%
PHYSICIANS PER 10,000 RESIDENTS	45	1.95
PROMINENCE HOME RATING (PHR)	N/A	★★★★☆

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NEW YORK

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	19	79.1%	15	82.0%	29	80.3%	4	75.5%	15	80.1%
PERCENT OPTIMAL MPR	14	63.7%	14	69.9%	21	67.4%	18	58.4%	15	66.6%
FIRST FILL PERSISTENCY RATE (FFPR)	8	68.6%	24	65.0%	29	63.4%	19	65.7%	22	65.2%
GENERIC DISPENSING RATE (GDR)	43	53.9%	40	62.2%	43	41.3%	30	61.5%	42	62.9%
MAIL DISPENSING RATE (MDR)	32	14.3%	33	15.7%	33	19.2%	37	9.5%	32	15.7%

*AGE AND GENDER ADJUSTED

Key Facts

- NY shows above average MPR and percent optimal MPR on all conditions except dyslipidemia
- NY's suboptimal generic and mail dispensing rates, if improved, could lead to increased adherence

New York
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	48.3%
OVERWEIGHT	N/A	13.1%
ACTIVE (EXERCISE)	26	50.7%
COMPRESSED AND CALLED	12	61.4%
MEDIAN HOUSEHOLD INCOME	23	$50,372

Access to Health Care

	RANK	VALUE
IMMUNIZED	19	72.2%
HEALTH CARE COVERAGE, COMMERCIAL	39	52.5%
HEALTH CARE COVERAGE, MEDICARE	37	12.1%
HEALTH CARE COVERAGE, MEDICAID	3	20.7%
PHYSICIANS PER 10,000 RESIDENTS	17	3.09
PROMINENCE HOME RATING (PHR)	N/A	★★★★☆

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NORTH CAROLINA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	35	78.0%	42	80.0%	39	79.6%	17	74.1%	36	78.6%
PERCENT OPTIMAL MPR	36	58.9%	34	65.2%	43	63.0%	29	55.0%	35	62.0%
FIRST FILL PERSISTENCY RATE (FFPR)	35	64.2%	26	64.8%	40	61.5%	28	64.3%	30	63.9%
GENERIC DISPENSING RATE (GDR)	15	58.6%	28	84.5%	27	47.5%	28	62.1%	27	66.6%
MAIL DISPENSING RATE (MDR)	27	16.3%	30	17.0%	29	21.7%	23	13.0%	28	17.6%

*ACE AND GENDER ADJUSTED

Key Facts

- NC ranks consistently mid to low on MPR, percent optimal MPR and first fill persistency
- Generic and mail dispensing rates are average

North Carolina
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.6%
OVER 40 (%)	N/A	12.7%
ACTIVE (EXERCISE)	41	46.4%
OVERWEIGHT AND OBESE	29	65.3%
MEDIAN HOUSEHOLD INCOME	41	$43,229

Access to Health Care

	RANK	VALUE
IMMUNIZED	47	56.4%
HEALTH CARE COVERAGE, COMMERCIAL	35	53.5%
HEALTH CARE COVERAGE, MEDICARE	24	13.4%
HEALTH CARE COVERAGE, MEDICAID	25	14.3%
PHYSICIANS PER 10,000 RESIDENTS	29	2.43
PHARMACY NOME RATING (1-5)	N/A	★★★★

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NORTH DAKOTA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	21	79.0%	14	82.2%	12	81.7%	35	73.6%	19	79.9%
PERCENT OPTIMAL MPR	4	69.1%	7	73.3%	6	71.9%	5	61.6%	6	70.1%
FIRST FILL PERSISTENCY RATE (FFPR)	19	66.7%	10	67.7%	50	59.0%	5	69.0%	15	66.3%
GENERIC DISPENSING RATE (GDR)	46	53.4%	10	89.1%	28	47.5%	13	66.8%	19	69.1%
MAIL DISPENSING RATE (MDR)	31	14.4%	28	17.6%	28	22.0%	41	9.1%	30	16.7%

*ACE AND GENDER ADJUSTED

Key Facts

- ND achieves high percent optimal MPR with mixed performance on MPR and first fill persistency, including ranking last in first fill persistency for dyslipidemia therapies
- ND has the highest number of physicians per capita, and ranks high on commercial health coverage and low on Medicaid coverage

North Dakota
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.6%
OVER 40 (%)	N/A	12.7%
ACTIVE (EXERCISE)	18	52.2%
OVERWEIGHT AND OBESE	26	64.7%
MEDIAN HOUSEHOLD INCOME	26	$49,450

Access to Health Care

	RANK	VALUE
IMMUNIZED	45	57.6%
HEALTH CARE COVERAGE, COMMERCIAL	3	65.8%
HEALTH CARE COVERAGE, MEDICARE	30	12.7%
HEALTH CARE COVERAGE, MEDICAID	48	8.8%
PHYSICIANS PER 10,000 RESIDENTS	1	5.20
PHARMACY NOME RATING (1-5)	N/A	★★★★★

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OHIO

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	23	79.0%	28	81.0%	26	80.5%	34	73.6%	31	79.2%
[illegible]	28	60.0%	13	68.7%	19	67.6%	27	56.1%	23	65.2%
FIRST FILL PERSISTENCY RATE (FFPR)	29	64.9%	27	64.8%	28	63.4%	27	64.5%	27	64.4%
[illegible]	29	56.3%	19	66.8%	31	46.5%	15	66.2%	24	67.6%
MAIL DISPENSING RATE (MDR)	4	27.3%	5	26.9%	8	32.0%	7	18.9%	7	27.0%

*AGE AND GENDER ADJUSTED

Key Facts

- OH generally ranks average on adherence related metrics for all conditions
- OH is among the top states for mail dispensing

Ohio
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.0%
[illegible]	N/A	[illegible]
ACTIVE (EXERCISE)	32	48.5%
[illegible]	32	65.7%
MEDIAN HOUSEHOLD INCOME	31	$47,809

Access to Health Care

	RANK	VALUE
IMMUNIZED	11	75.4%
HEALTH CARE COVERAGE, COMMERCIAL	22	58.9%
HEALTH CARE COVERAGE, MEDICARE	12	14.1%
HEALTH CARE COVERAGE, MEDICAID	29	13.4%
PHYSICIANS PER 10,000 RESIDENTS	20	2.95
PHARMACY HOME RATING (1-5)	N/A	★★★★★

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OKLAHOMA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	33	78.4%	38	80.2%	37	79.7%	36	73.5%	37	78.6%
[illegible]	39	58.3%	44	63.2%	40	63.5%	41	53.0%	42	60.7%
FIRST FILL PERSISTENCY RATE (FFPR)	22	65.9%	33	63.4%	41	61.1%	38	63.4%	34	63.3%
[illegible]	39	55.1%	36	63.6%	29	46.0%	40	57.9%	33	65.4%
MAIL DISPENSING RATE (MDR)	21	18.3%	18	21.0%	16	26.4%	19	14.0%	16	20.8%

*AGE AND GENDER ADJUSTED

Key Facts

- OK generally ranks below average on adherence related metrics
- OK shows slightly above average mail dispensing rates
- OK ranks amongst the bottom ten states for overweight/obesity rates, physical activity and commercial health coverage

Oklahoma
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.6%
[illegible]	N/A	[illegible]
ACTIVE (EXERCISE)	40	47.1%
[illegible]	44	67.3%
MEDIAN HOUSEHOLD INCOME	39	$45,507

Access to Health Care

	RANK	VALUE
IMMUNIZED	22	71.3%
HEALTH CARE COVERAGE, COMMERCIAL	42	52.1%
HEALTH CARE COVERAGE, MEDICARE	6	14.8%
HEALTH CARE COVERAGE, MEDICAID	18	14.7%
PHYSICIANS PER 10,000 RESIDENTS	18	3.07
PHARMACY HOME RATING (1-5)	N/A	★★★★★

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OREGON

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	47	76.7%	46	79.6%	46	78.6%	23	73.9%	47	77.8%
[illegible]	18	62.7%	29	67.0%	24	60.4%	20	57.5%	28	64.4%
FIRST FILL PERSISTENCY RATE (FFPR)	20	66.5%	18	65.9%	9	66.2%	16	66.4%	17	66.1%
[illegible]	10	58.8%	8	69.1%	3	59.1%	14	66.5%	4	72.6%
MAIL DISPENSING RATE (MDR)	41	11.0%	41	13.2%	42	16.1%	42	9.0%	42	12.9%

*AGE AND GENDER ADJUSTED

Key Facts

- OR has a mix of high and low performance on adherence metrics, with generally good first fill persistency, but below average MPR
- OR shows above average generic dispensing rates and below average mail dispensing rates

Oregon
STATE RATING
SILVER

Demographics

	RANK	VALUE
MALE	N/A	49.8%
[illegible]	N/A	13.9%
ACTIVE (EXERCISE)	8	56.5%
[illegible]	9	60.0%
MEDIAN HOUSEHOLD INCOME	20	$50,866

Access to Health Care

	RANK	VALUE
IMMUNIZED	36	66.9%
[illegible]	29	56.5%
HEALTH CARE COVERAGE, MEDICARE	20	13.6%
[illegible]	30	12.1%
PHYSICIANS PER 10,000 RESIDENTS	50	1.69
[illegible]	N/A	★★★★★

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PENNSYLVANIA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	27	78.8%	25	81.3%	31	80.3%	8	74.8%	24	79.6%
[illegible]	7	66.6%	9	71.9%	8	71.1%	7	60.6%	8	69.0%
FIRST FILL PERSISTENCY RATE (FFPR)	15	67.2%	16	66.2%	17	65.0%	11	67.1%	16	66.2%
[illegible]	30	56.1%	31	84.2%	30	46.8%	22	63.9%	29	66.2%
MAIL DISPENSING RATE (MDR)	12	22.7%	12	24.5%	11	29.8%	13	15.4%	12	24.2%

*AGE AND GENDER ADJUSTED

Key Facts

- PA shows average adherence as measured by MPR, with above average optimal MPR and first fill persistency rankings
- Improved generic dispensing could have a positive impact on adherence

Pennsylvania
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	48.4%
[illegible]	N/A	15.2%
ACTIVE (EXERCISE)	28	50.4%
[illegible]	35	65.8%
MEDIAN HOUSEHOLD INCOME	25	$49,829

Access to Health Care

	RANK	VALUE
IMMUNIZED	21	71.8%
[illegible]	15	59.8%
HEALTH CARE COVERAGE, MEDICARE	10	14.8%
[illegible]	22	14.5%
PHYSICIANS PER 10,000 RESIDENTS	16	3.11
[illegible]	N/A	★★★★★

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RHODE ISLAND

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	11	79.6%	11	82.6%	20	80.9%	6	75.3%	11	80.4%
PERCENT OPTIMAL MPR	19	62.3%	8	71.9%	16	63.5%	8	59.7%	12	67.6%
FIRST FILL PERSISTENCY RATE (FFPR)	27	64.9%	7	68.1%	6	67.3%	22	65.6%	10	67.0%
GENERIC DISPENSING RATE (GDR)	1	63.5%	13	88.2%	33	50.1%	3	73.9%	8	71.3%
MAIL DISPENSING RATE (MDR)	48	7.6%	49	8.0%	49	9.8%	49	5.9%	49	8.1%

*AGE AND GENDER ADJUSTED

Key Facts

- RI performs above average on most adherence related metrics, but achieves average first fill persistency rates for diabetes and depression
- RI ranks well in generic dispensing rates but ranks low in mail dispensing

Rhode Island
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	48.5%
OVER AGE 65	N/A	13.4%
ACTIVE (EXERCISE)	34	48.3%
OVERWEIGHT AND OBESE	20	63.5%
MEDIAN HOUSEHOLD INCOME	15	$53,584

Access to Health Care

	RANK	VALUE
IMMUNIZED	49	52.1%
HEALTH CARE COVERAGE, COMMERCIAL	26	57.8%
HEALTH CARE COVERAGE, MEDICARE	26	13.2%
HEALTH CARE COVERAGE, MEDICAID	11	16.4%
PHYSICIANS PER 10,000 RESIDENTS	33	2.39
PHARMACY HOME RATING (HR)	N/A	★★★★★

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SOUTH CAROLINA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	36	77.9%	44	79.8%	36	80.1%	42	73.2%	39	78.5%
PERCENT OPTIMAL MPR	49	52.9%	48	59.7%	50	57.0%	47	50.4%	49	56.5%
FIRST FILL PERSISTENCY RATE (FFPR)	41	63.5%	38	62.3%	45	60.3%	35	63.7%	40	62.2%
GENERIC DISPENSING RATE (GDR)	36	55.9%	42	81.8%	38	44.5%	38	58.9%	38	64.1%
MAIL DISPENSING RATE (MDR)	45	9.7%	46	9.6%	45	13.3%	44	7.3%	45	10.2%

*AGE AND GENDER ADJUSTED

Key Facts

- SC has a relatively low percentage of patients with optimal MPR
- Generic dispensing rates are average and mail dispensing rates are low
- SC ranks low on physical activity and high on percentage overweight/obesity

South Carolina
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.4%
OVER AGE 65	N/A	14.4%
ACTIVE (EXERCISE)	44	45.4%
OVERWEIGHT AND OBESE	45	67.4%
MEDIAN HOUSEHOLD INCOME	42	$42,945

Access to Health Care

	RANK	VALUE
IMMUNIZED	30	68.0%
HEALTH CARE COVERAGE, COMMERCIAL	34	53.5%
HEALTH CARE COVERAGE, MEDICARE	5	15.0%
HEALTH CARE COVERAGE, MEDICAID	30	13.2%
PHYSICIANS PER 10,000 RESIDENTS	22	2.74
PHARMACY HOME RATING (HR)	N/A	★★★★★

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SOUTH DAKOTA

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	24	78.9%	21	81.7%	22	80.7%	40	73.3%	25	79.5%
PERCENT OPTIMAL MPR	13	64.1%	15	69.9%	14	68.6%	11	59.1%	14	66.9%
FIRST FILL PERSISTENCY RATE (FFPR)	3	71.1%	12	66.7%	14	65.6%	3	70.2%	6	67.7%
GENERIC DISPENSING RATE (GDR)	47	53.2%	15	87.6%	16	52.7%	10	68.0%	13	70.3%
MAIL DISPENSING RATE (MDR)	25	17.8%	21	19.5%	22	24.5%	18	14.0%	20	19.7%

*AGE AND GENDER ADJUSTED

Key Facts

- SD shows above average rates on adherence related metrics for all conditions, with an exception for depression therapy MPR
- SD generic dispensing for diabetes medications does not track with the GDR for other conditions in the state
- SD ranks among the top states for number of physicians per capita and immunization rates

South Dakota
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.6%
OVER AGE 65	N/A	14.1%
ACTIVE (EXERCISE)	45	45.0%
OVERWEIGHT AND OBESE	33	65.7%
MEDIAN HOUSEHOLD INCOME	28	$48,416

Access to Health Care

	RANK	VALUE
IMMUNIZED	4	78.4%
HEALTH CARE COVERAGE, COMMERCIAL	25	58.3%
HEALTH CARE COVERAGE, MEDICARE	11	14.4%
HEALTH CARE COVERAGE, MEDICAID	35	12.2%
PHYSICIANS PER 10,000 RESIDENTS	2	5.10
PHARMACY HOME RATING (PCH)	N/A	★★★★☆

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TENNESSEE

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	46	76.9%	49	78.6%	44	78.9%	46	72.9%	48	77.4%
PERCENT OPTIMAL MPR	47	55.1%	45	61.6%	47	59.1%	46	51.2%	47	58.1%
FIRST FILL PERSISTENCY RATE (FFPR)	44	62.0%	48	60.5%	42	60.7%	41	62.7%	46	61.1%
GENERIC DISPENSING RATE (GDR)	9	58.9%	33	84.0%	20	61.7%	25	63.2%	22	68.4%
MAIL DISPENSING RATE (MDR)	46	9.6%	45	10.0%	46	12.9%	46	6.6%	46	10.1%

*AGE AND GENDER ADJUSTED

Key Facts

- TN ranks below average on all adherence metrics
- Mail dispensing rates are very low and could be contributing to suboptimal adherence
- TN ranks low on physical activity and high on overweight/obesity rates

Tennessee
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.3%
OVER AGE 65	N/A	14.0%
ACTIVE (EXERCISE)	49	35.9%
OVERWEIGHT AND OBESE	42	67.8%
MEDIAN HOUSEHOLD INCOME	47	$40,895

Access to Health Care

	RANK	VALUE
IMMUNIZED	8	76.9%
HEALTH CARE COVERAGE, COMMERCIAL	43	51.0%
HEALTH CARE COVERAGE, MEDICARE	13	14.0%
HEALTH CARE COVERAGE, MEDICAID	9	16.8%
PHYSICIANS PER 10,000 RESIDENTS	11	3.33
PHARMACY HOME RATING (PCH)	N/A	★★★★☆

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TEXAS

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	29	78.7%	32	80.9%	32	80.3%	32	73.7%	28	79.3%
PERCENT OPTIMAL MPR	41	58.8%	41	64.3%	41	60.5%	37	54.9%	39	61.6%
FIRST FILL PERSISTENCY RATE (FFPR)	47	61.5%	45	61.3%	44	60.3%	46	60.9%	48	61.0%
GENERIC DISPENSING RATE (GDR)	35	55.0%	45	50.6%	44	49.8%	46	56.1%	45	51.6%
MAIL DISPENSING RATE (MDR)	9	24.0%	7	26.6%	7	32.6%	6	19.9%	6	27.1%

*AVG AND GROUP NUMBERS

Key Facts

- TX generally ranks below average on all adherence measures: MPR, percent optimal MPR and first fill persistency
- The state's low generic dispensing rates are counteracting its excellent mail dispensing rates in terms of moving adherence in a positive direction

Texas

STATE RATING

BRONZE

Demographics

	RANK	VALUE
MALE	N/A	49.5%
OVER AGE 65	N/A	10.1%
ACTIVE (EXERCISE)	35	48.1%
OVERWEIGHT AND OBESE	41	65.5%
MEDIAN HOUSEHOLD INCOME	34	$47,143

Access to Health Care

	RANK	VALUE
IMMUNIZED	16	74.4%
HEALTH CARE COVERAGE, COMMERCIAL	47	48.6%
HEALTH CARE COVERAGE, MEDICARE	46	9.7%
HEALTH CARE COVERAGE, MEDICAID	16	15.1%
PHYSICIANS PER 10,000 RESIDENTS	28	2.50
PHARMACY HOME RATING (PHR)	N/A	★★★★★

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UTAH

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	12	79.5%	6	83.0%	7	82.2%	47	72.6%	18	79.9%
PERCENT OPTIMAL MPR	30	65.4%	38	64.6%	32	65.7%	39	53.1%	38	61.7%
FIRST FILL PERSISTENCY RATE (FFPR)	43	62.8%	43	61.3%	23	63.7%	14	66.5%	35	63.2%
GENERIC DISPENSING RATE (GDR)	33	56.0%	25	62.9%	6	63.5%	7	68.4%	17	60.5%
MAIL DISPENSING RATE (MDR)	15	20.6%	17	21.0%	17	25.7%	22	13.0%	17	20.4%

*AVG AND GROUP NUMBERS

Key Facts

- UT has a mix of high and low performance on adherence metrics
- UT ranks among the top states on immunization rates, physical activity and lower overweight/obesity rates
- UT has the highest percent of population with commercial health coverage and ranks among the lowest on government health coverage

Utah

STATE RATING

SILVER

Demographics

	RANK	VALUE
MALE	N/A	50.3%
OVER AGE 65	N/A	8.8%
ACTIVE (EXERCISE)	4	57.6%
OVERWEIGHT AND OBESE	3	57.7%
MEDIAN HOUSEHOLD INCOME	11	$58,722

Access to Health Care

	RANK	VALUE
IMMUNIZED	9	76.3%
HEALTH CARE COVERAGE, COMMERCIAL	1	66.5%
HEALTH CARE COVERAGE, MEDICARE	49	8.4%
HEALTH CARE COVERAGE, MEDICAID	49	8.2%
PHYSICIANS PER 10,000 RESIDENTS	48	1.79
PHARMACY HOME RATING (PHR)	N/A	★★★★★

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VERMONT

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	2	81.6%	2	84.9%	4	82.7%	3	76.4%	2	82.2%
PERCENT OPTIMAL MPR	3	69.8%	2	77.1%	1	76.9%	1	68.2%	1	74.5%
FIRST FILL PERSISTENCY RATE (FFPR)	37	64.0%	3	69.7%	1	70.4%	7	67.6%	4	68.8%
GENERIC DISPENSING RATE (GDR)	23	57.1%	3	91.4%	4	55.1%	6	69.2%	3	73.7%
MAIL DISPENSING RATE (MDR)	50	5.6%	50	7.0%	50	8.9%	50	4.9%	50	7.0%

*AGE AND GENDER ADJUSTED

Key Facts

- VT consistently ranks high in adherence across all conditions
- Improvement in generic and mail dispensing rates for diabetes medications could positively impact first fill persistency rates

Vermont
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.1%
[illegible]	N/A	13.8%
ACTIVE EXERCISE	3	58.0%
[illegible]	4	58.5%
MEDIAN HOUSEHOLD INCOME	21	$50,619

Access to Health Care

	RANK	VALUE
IMMUNIZED	17	73.7%
HEALTH CARE COVERAGE, COMMERCIAL	31	55.5%
HEALTH CARE COVERAGE, MEDICARE	25	13.4%
HEALTH CARE COVERAGE, MEDICAID	4	20.6%
PHYSICIANS PER 10,000 RESIDENTS	42	2.08
PHARMACY STATE RATING (1-5)	N/A	★★★★

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VIRGINIA

Adherence

	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	31	78.5%	34	80.5%	35	80.2%	25	73.9%	32	79.1%
PERCENT OPTIMAL MPR	37	61.1%	26	67.8%	24	68.0%	37	56.9%	24	64.9%
FIRST FILL PERSISTENCY RATE (FFPR)	36	64.1%	23	65.2%	35	62.3%	37	63.4%	28	64.1%
GENERIC DISPENSING RATE (GDR)	24	57.0%	38	82.6%	40	43.6%	33	60.9%	40	64.0%
MAIL DISPENSING RATE (MDR)	16	20.3%	16	21.1%	14	26.8%	14	15.4%	15	21.8%

*AGE AND GENDER ADJUSTED

Key Facts

- VA achieved average to below average adherence rankings across all conditions
- The state's good mail dispensing rate could be leveraged to improve adherence

Virginia
STATE RATING
BRONZE

Demographics

	RANK	VALUE
MALE	N/A	48.6%
[illegible]	N/A	12.0%
ACTIVE EXERCISE	23	51.3%
[illegible]	10	61.2%
MEDIAN HOUSEHOLD INCOME	6	$61,151

Access to Health Care

	RANK	VALUE
IMMUNIZED	24	70.3%
HEALTH CARE COVERAGE, COMMERCIAL	11	62.0%
HEALTH CARE COVERAGE, MEDICARE	38	12.0%
HEALTH CARE COVERAGE, MEDICAID	46	9.6%
PHYSICIANS PER 10,000 RESIDENTS	37	2.22
PHARMACY STATE RATING (1-5)	N/A	★★★★

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WASHINGTON

Adherence	Diabetes RANK	Diabetes VALUE	Hypertension RANK	Hypertension VALUE	Dyslipidemia RANK	Dyslipidemia VALUE	Depression RANK	Depression VALUE	Overall RANK	Overall VALUE
MEDICATION POSSESSION RATIO (MPR)*	32	78.5%	17	81.9%	25	80.6%	12	74.6%	22	79.7%
PERCENT OPTIMAL MPR	16	63.4%	21	68.4%	17	68.3%	19	58.0%	17	65.8%
FIRST FILL PERSISTENCY RATE (FFPR)	11	67.8%	25	65.0%	12	65.7%	25	65.1%	21	65.5%
GENERIC DISPENSING RATE (GDR)	13	58.2%	6	89.3%	11	54.7%	5	71.3%	6	72.3%
MAIL DISPENSING RATE (MDR)	35	13.7%	31	16.4%	30	20.3%	30	11.3%	31	16.2%

*AGE AND GENDER ADJUSTED

Key Facts

- WA achieves average to above average adherence and first fill persistency across the conditions
- With average mail dispensing rates and good generic dispensing rates, WA has an opportunity to improve on adherence metrics

Washington
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.7%
OVER AGE 65	N/A	17.0%
ACTIVE (EXERCISE)	11	53.6%
OVERWEIGHT AND OBESE	15	61.5%
MEDIAN HOUSEHOLD INCOME	10	$58,964

Access to Health Care

	RANK	VALUE
IMMUNIZED	12	75.4%
HEALTH CARE COVERAGE, COMMERCIAL	19	59.1%
HEALTH CARE COVERAGE, MEDICARE	41	11.3%
HEALTH CARE COVERAGE, MEDICAID	23	14.4%
PHYSICIANS PER 10,000 RESIDENTS	49	1.70
PHARMACY HOME RATING (PCH)	N/A	★★★★☆

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WEST VIRGINIA

Adherence	Diabetes RANK	Diabetes VALUE	Hypertension RANK	Hypertension VALUE	Dyslipidemia RANK	Dyslipidemia VALUE	Depression RANK	Depression VALUE	Overall RANK	Overall VALUE
MEDICATION POSSESSION RATIO (MPR)*	8	80.0%	7	83.0%	14	81.6%	2	76.5%	5	81.1%
PERCENT OPTIMAL MPR	8	66.5%	11	71.0%	11	70.2%	17	59.0%	11	68.2%
FIRST FILL PERSISTENCY RATE (FFPR)	7	69.3%	13	66.6%	8	66.2%	9	67.4%	11	67.0%
GENERIC DISPENSING RATE (GDR)	40	55.1%	24	65.0%	47	37.4%	37	59.0%	43	62.6%
MAIL DISPENSING RATE (MDR)	33	13.8%	37	14.0%	39	17.1%	34	10.4%	37	14.3%

*AGE AND GENDER ADJUSTED

Key Facts

- WV does well on MPR, percent optimal MPR and first fill persistency across all conditions
- WV's moderate rankings on generic and mail dispensing provide an opportunity for improvement on the adherence metrics
- WV ranks among the top states for number of physicians per capita

West Virginia
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.0%
OVER AGE 65	N/A	16.7%
ACTIVE (EXERCISE)	50	35.1%
OVERWEIGHT AND OBESE	48	67.9%
MEDIAN HOUSEHOLD INCOME	48	$40,627

Access to Health Care

	RANK	VALUE
IMMUNIZED	28	69.0%
HEALTH CARE COVERAGE, COMMERCIAL	44	49.5%
HEALTH CARE COVERAGE, MEDICARE	1	19.2%
HEALTH CARE COVERAGE, MEDICAID	15	15.6%
PHYSICIANS PER 10,000 RESIDENTS	5	4.07
PHARMACY HOME RATING (PCH)	N/A	★★★★☆

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WISCONSIN

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	16	79.2%	24	81.5%	19	81.0%	26	73.8%	23	79.7%
PERCENT OPTIMAL MPR	6	69.0%	4	75.0%	5	73.1%	3	61.9%	4	71.3%
FIRST FILL PERSISTENCY RATE (FFPR)	2	71.7%	4	69.7%	2	69.8%	1	71.4%	2	70.3%
GENERIC DISPENSING RATE (GDR)	19	57.6%	6	80.3%	15	52.8%	4	71.9%	7	71.7%
MAIL DISPENSING RATE (MDR)	13	22.2%	13	23.4%	13	27.2%	16	14.3%	13	22.7%

*AGE AND GENDER ADJUSTED

Key Facts

- WI achieves consistently high rankings on percent of patients with optimal MPR and first fill persistency rates
- Generic and mail dispensing contribute to good medication adherence

Wisconsin
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	49.3%
OVERWEIGHT	N/A	13.8%
ACTIVE (EXERCISE)	16	52.8%
OVERWEIGHT AND OBESE	21	63.6%
MEDIAN HOUSEHOLD INCOME	19	$51,763

Access to Health Care

	RANK	VALUE
IMMUNIZED	42	61.9%
HEALTH CARE COVERAGE, COMMERCIAL	12	61.4%
HEALTH CARE COVERAGE, MEDICARE	17	13.9%
HEALTH CARE COVERAGE, MEDICAID	19	14.0%
PHYSICIANS PER 10,000 RESIDENTS	31	2.41
PHARMACY HOME RATING (PH)	N/A	★★★★½

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WYOMING

Adherence	Diabetes		Hypertension		Dyslipidemia		Depression		Overall	
	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE	RANK	VALUE
MEDICATION POSSESSION RATIO (MPR)*	22	79.0%	18	81.8%	15	81.6%	28	73.8%	21	79.8%
PERCENT OPTIMAL MPR	17	63.4%	30	66.5%	26	66.8%	28	55.5%	30	64.0%
FIRST FILL PERSISTENCY RATE (FFPR)	14	67.6%	15	66.5%	10	65.8%	4	69.1%	12	67.0%
GENERIC DISPENSING RATE (GDR)	45	53.5%	35	63.9%	21	58.2%	43	57.4%	31	65.9%
MAIL DISPENSING RATE (MDR)	17	19.7%	24	19.3%	21	24.6%	17	14.1%	21	19.7%

*AGE AND GENDER ADJUSTED

Key Facts

- WY achieves average rankings on MPR and good rankings on first fill persistency
- WY shows opportunity for improvement on generic dispensing rates
- WY ranks in the top 10 states for physical activity and physicians per capita

Wyoming
STATE RATING
GOLD

Demographics

	RANK	VALUE
MALE	N/A	50.1%
OVERWEIGHT	N/A	12.7%
ACTIVE (EXERCISE)	6	57.2%
OVERWEIGHT AND OBESE	23	63.8%
MEDIAN HOUSEHOLD INCOME	18	$52,010

Access to Health Care

	RANK	VALUE
IMMUNIZED	37	65.1%
HEALTH CARE COVERAGE, COMMERCIAL	37	59.6%
HEALTH CARE COVERAGE, MEDICARE	33	12.4%
HEALTH CARE COVERAGE, MEDICAID	41	10.9%
PHYSICIANS PER 10,000 RESIDENTS	7	3.68
PHARMACY HOME RATING (PH)	N/A	★★★★½

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GLOSSARY OF TERMS

MEDICATION POSSESSION RATIO (MPR)

Description

Ratio of the total days the member had drug available to the number of possible days the participant could have drug on hand.

Additional Detail

Age, gender adjusted at the state level, controlled for eligibility at the member level.

Source

CVS Caremark PBM Book of Business 2010

PERCENT OPTIMAL MPR

Description

The percent of members with an MPR of .80 or higher.

Additional Detail

80% MPR as optimally adherent is an industry-standard assumption.

Source

CVS Caremark PBM Book of Business 2010

FIRST FILL PERSISTENCY RATE (FFPR)

Description

The percent of members who are persistent in refilling their prescriptions after the first fill.

Additional Detail

All members that filled an Rx in the class in question, that did not have an Rx in the prior period, are evaluated to see if they filled an Rx after that date sometime in the post period. *(Seven month evaluation period, six month prior period, two month enrollment period for mail, five month enrollment period for retail.)*

Source

CVS Caremark PBM Book of Business 2010

GENERIC DISPENSING RATE (GDR)

Description

The percent of all payable prescriptions that were dispensed as generic drugs.

Additional Detail

Total prescriptions dispensed as generic/total prescriptions.

Source

CVS Caremark PBM Book of Business 2010

MAIL DISPENSING RATE (MDR)

Description

The percent of payable prescriptions dispensed at mail.

Additional Detail

Total Mail prescriptions/total prescriptions.

Source

CVS Caremark PBM Book of Business 2010

MALE

Description

The percent of male members from all the claims during the study period.

Additional Detail

Total claims with male designation/total prescriptions.

Source

CVS Caremark PBM Book of Business 2010

PERCENT OVER AGE 65

Description

The percent of members over the age of 65 from all the claims during the study period.

Additional Detail

Total claims with age group over 65/total prescriptions.

Source

CVS Caremark PBM Book of Business 2010

ACTIVE (EXERCISE)

Description

(CDC)'s Behavioral Risk Factor Surveillance System (BRFSS) determined the participation in physical activity.

Additional Detail

Survey question. During the past month, did you participate in 30+ minutes of moderate physical activity five or more days per week, or vigorous physical activity for 20+ minutes three or more days per week?

Source

Behavioral Risk Factor Surveillance System, 2009: analysis by the National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, available at: http://apps.nccd.cdc.gov/BRFSS/list.asp?cat=PA&yr=2009&qkey=4418&state=All.

OVERWEIGHT AND OBESE

Description

Percent of adults who reported having a body mass index (BMI) greater than or equal to 25.0 kg/meters squared.

Additional Detail

Random-digit-dialed telephone survey of non-institutionalized civilian adults aged 18 years and older.

Source

Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System Survey Data, 2010. Available at: http://apps.nccd.cdc.gov/brfss/list.asp?cat=OB&yr=2010&qkey=44098&state=All.

MEDIAN HOUSEHOLD INCOME

Description

2007 to 2009 average median income.

Additional Detail

The sum of 3 inflation-adjusted single-year medians divided by 3.

Source

U.S. Census Bureau, Current Population Survey, 2007 to 2009 Annual Social and Economic Supplements. Three-Year-Average Median Household Income by State: 2007-2009 and Two-Year-Average Median Household Income by State: 2008 to 2009, available at: http://www.census.gov/hhes/www/income/data/statemedian/index.html.

IMMUNIZED

Description

Percent of immunized population.

Additional Detail

Estimated vaccination coverage with individual vaccines and selected vaccination series among children 19-35 months of age.

Source

Centers for Disease Control and Prevention. Available at: http://www2a.cdc.gov/nip/coverage/nis/CountNIS.asp?fmt=r&rpt=tab38_431331_race.iap.xlsx&qtr=Q1/2010-Q4/2010.

HEALTH COVERAGE, COMMERCIAL

Description

Percent of the population covered under an employer sponsored health plan.

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Source

Urban Institute and Kaiser Commission on Medicaid and the Uninsured estimates based on the Census Bureau's March 2009 and 2010 Current Population Survey (CPS: Annual Social and Economic Supplements).

HEALTH COVERAGE, MEDICARE

Description

Percent of the population covered under Medicare.

HEALTH COVERAGE, MEDICAID

Description

Percent of the population covered under Medicaid

PHYSICIANS PER 10,000 RESIDENTS

Description

Professionally active physicians per 10,000 civilian population.

Additional Detail

Physicians who are currently engaged in patient care or other professional activity for a minimum of 20 hours per week.

Source

Health, United States, 2010 (Table 106) Centers for Disease Control and Prevention, National Center for Health Statistics. Available at: http://www.cdc.gov/nchs/data/hus/hus10.pdf.

PHARMACY HOME RATING (1-5)

Description

Score indicating the level at which members use one pharmacy for all their prescriptions, and the rate at which they coordinate their refill dates for multiple prescriptions.

Additional Detail

Percent of members using one pharmacy multiplied by the fill schedule synchronization ratio for each condition, then averaged the rates to get a score rate. Score is on a scale 1-5 determined by a tier system.

Source

CVS Caremark PBM Book of Business 2010

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METHODOLOGY OVERVIEW

Grading Algorithm

- Four metrics were selected based on known importance to adherence and ranked for the four conditions, resulting in 16 ranked metrics in total
- Metrics were weighted, using regression parameter estimates as a guide

Type of Metric	Metric	Description	Weight
Adherence	MPR	Measure of medication adherence	45%
	FFPR	% of new initiators getting a second fill	30%
Drug/Channel	GDR	% of scripts filled with generic medication	15%
	MOR	% of scripts filled at mail	10%

- Conditions were weighted equally (25% each)

Resulting state-level scores were ranked and assigned a color grade:

Grade	Rank (1-50)
Gold	1-17
Silver	18-34
Bronze	35-50

Pharmacy Home Rating

- For each of the five conditions, calculated % of patients using one pharmacy for their condition-related medications.
- For each of the five conditions, calculated the % synchronization of the medication refill schedules.
- Multiplied results of steps 1 and 2 at the condition-level to get a Condition Pharmacy Home Score
- Averaged the Condition Pharmacy Home Scores (equal weighting) to get an Overall Pharmacy Home Score.
- Pharmacy Home Rating was scaled 1-5

Overall Metrics by State

- Weighted average of the four conditions evaluated (diabetes, hypertension, dyslipidemia, depression)

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