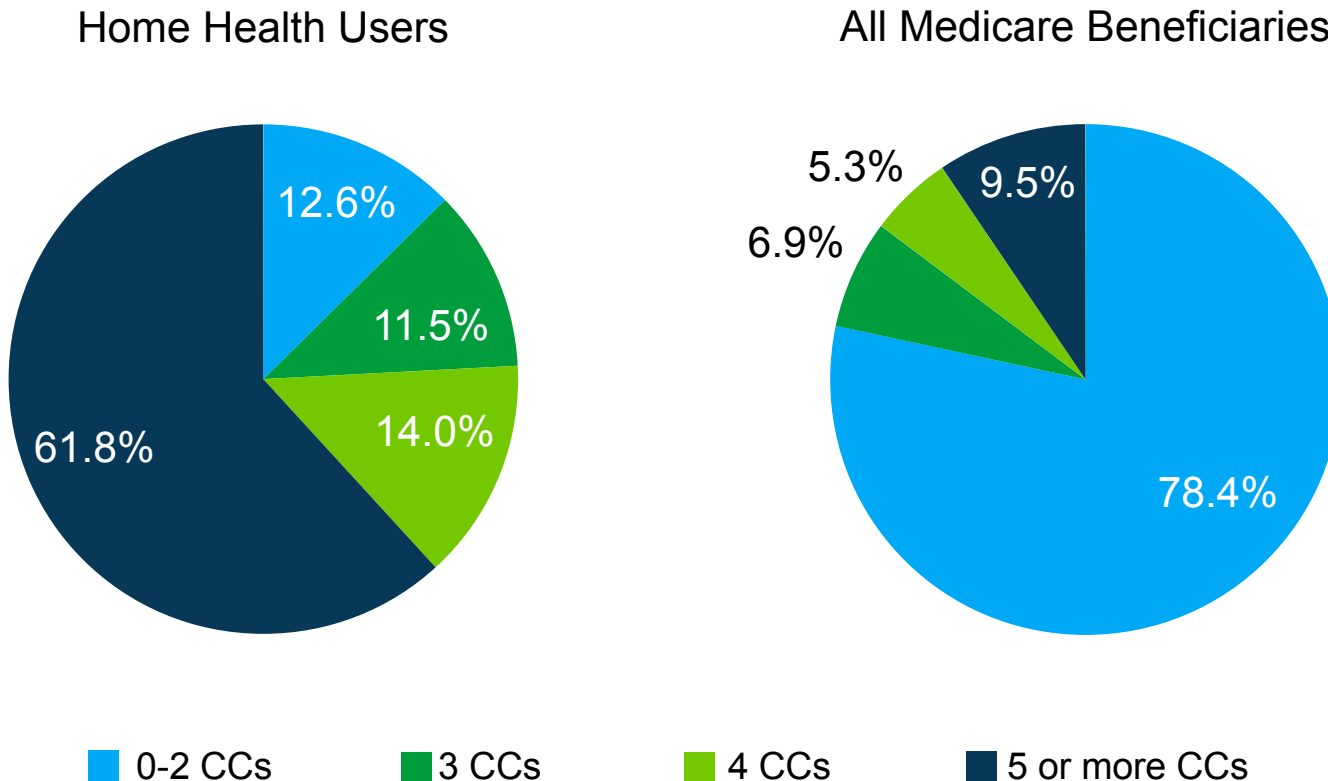


# **Home Health Care in Rhode Island Facts & Figures**



# Prevalence of Chronic Conditions Among Home Health Users, Rhode Island

Percentage of Home Health Users by Number of Chronic Conditions (CCs) Compared to all Medicare Beneficiaries, 2012



Source: Avalere Health, LLC analysis of Medicare Standard Analytic Files, 2012

Note: Having a chronic condition is defined as having a Medicare claim with a chronic condition listed in 2012. Medicare beneficiaries without any claims in 2012 are categorized as having no chronic conditions in 2012.

# Top 10 MS-DRG Codes for Home Health Episodes, Rhode Island

Top 10 Most Common Diagnoses Related Groups (MS-DRGs) for Beneficiaries Discharged from Hospital to Part A Home Health Episodes, 2012

MS-DRG	Number of Home Health Part A Claims, 2012	Percent of Total Home Health Part A Claims, 2012
Major joint replacement or reattachment of lower extremity w/o mcc	795	10.38%
Heart failure & shock w cc	198	2.58%
Septicemia or severe sepsis w/o mv 96+ hours w mcc	183	2.39%
Kidney & urinary tract infections w/o mcc	166	2.17%
Heart failure & shock w mcc	153	2.00%
Simple pneumonia & pleurisy w cc	146	1.91%
Cellulitis w/o mcc	134	1.75%
Chronic obstructive pulmonary disease w mcc	123	1.61%
Chronic obstructive pulmonary disease w cc	112	1.46%
Esophagitis, gastroent & misc digest disorders w/o mcc	109	1.42%

Source: Avalere Health, LLC analysis of Medicare Standard Analytic Files, 2012  
 Data for beneficiaries with a Part A home health episode and a prior short-term acute care hospital stay in 2012.  
 Note: CC is complication or comorbidity. MCC is major complication or comorbidity.

# Top 10 ICD-9 Diagnoses for Home Health Episodes, Rhode Island

Top 10 Most Common Primary International Classification of Diseases, Version 9 (ICD-9) Diagnoses for all Home Health Episodes, 2012

ICD-9 Diagnosis	Number of Home Health Claims, 2012	Percent of Total Home Health Claims, 2012
Other and unspecified aftercare	2,181	10.23%
Care involving use of rehabilitation procedures	1,735	8.13%
Other orthopedic aftercare	1,732	8.12%
Heart failure	1,228	5.76%
Chronic ulcer of skin	906	4.25%
Diabetes mellitus	847	3.97%
Chronic bronchitis	770	3.61%
Late effects of cerebrovascular disease	528	2.48%
Essential hypertension	425	1.99%
Other cellulitis and abscess	391	1.83%

Source: Avalere analysis of the 100% Medicare Standard Analytic Files, 2012

# Clinical Profile of Home Health Users

Table 2.3: Percent of Medicare Home Health (HH) Users with 3 or More Chronic Conditions Compared to All Medicare Beneficiaries, by State, 2012

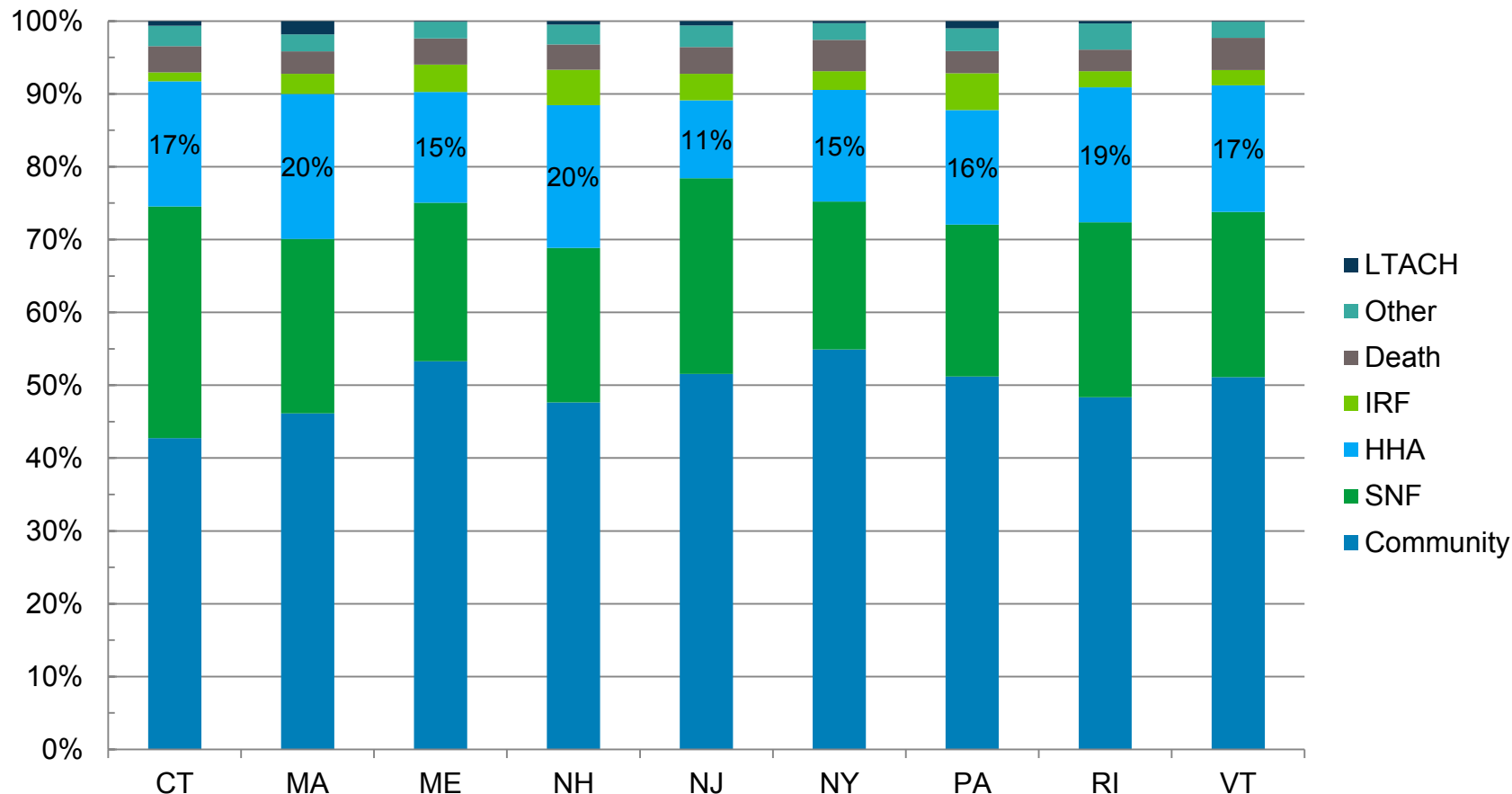
State	Percent of HH Users with 3+ CCs	Percent of Medicare Beneficiaries with 3+ CCs	State	Percent of HH Users with 3+ CCs	Percent of Medicare Beneficiaries with 3+ CCs
Alabama	87.64%	26.71%	Montana	87.37%	30.88%
Alaska	82.68%	26.32%	Nebraska	87.48%	29.23%
Arizona	85.49%	14.96%	Nevada	82.73%	15.25%
Arkansas	87.23%	26.61%	New Hampshire	90.21%	39.19%
California	86.23%	16.80%	New Jersey	88.28%	22.18%
Colorado	84.18%	18.93%	New Mexico	86.44%	22.93%
Connecticut	86.95%	24.97%	New York	87.65%	19.51%
Delaware	90.74%	33.27%	North Carolina	86.74%	26.71%
D.C	85.86%	25.44%	North Dakota	92.17%	43.00%
Florida	85.56%	21.35%	Ohio	90.31%	24.81%
Georgia	86.26%	23.28%	Oklahoma	89.84%	28.75%
Hawaii	84.63%	11.32%	Oregon	84.31%	17.15%
Idaho	84.71%	24.03%	Pennsylvania	89.02%	22.11%
Illinois	91.43%	34.26%	Rhode Island	87.39%	21.63%
Indiana	90.27%	29.13%	South Carolina	86.72%	27.21%
Iowa	89.71%	32.25%	South Dakota	89.06%	34.67%
Kansas	88.29%	29.79%	Tennessee	87.22%	21.61%
Kentucky	88.74%	30.39%	Texas	89.31%	24.94%
Louisiana	89.64%	27.65%	Utah	80.89%	17.07%
Maine	90.88%	36.75%	Vermont	88.69%	40.02%
Maryland	89.08%	25.16%	Virginia	86.58%	25.97%
Massachusetts	89.36%	30.22%	Washington	84.78%	21.18%
Michigan	90.29%	32.21%	West Virginia	90.51%	31.99%
Minnesota	86.32%	24.41%	Wisconsin	89.32%	23.75%
Mississippi	88.04%	30.38%	Wyoming	83.36%	25.42%
Missouri	89.52%	29.09%			

Source: Avalere Health, LLC analysis of Medicare Standard Analytic Files, 2012

Note: Having a chronic condition is defined as having a Medicare claim with a chronic condition listed in 2012. Medicare beneficiaries without any claims in 2012 are categorized as having no chronic conditions in 2012.

# Post-Acute Care Market Overview

Chart 3.3: Initial Patient Destinations Following an Inpatient Hospital Stay for Medicare Beneficiaries in 2012, for States in Northeastern Region



Source: Avalere Health, LLC analysis of Medicare Standard Analytic Files, 2012

Note: U.S. Census Bureau defines which states are in the Northeast Region; includes CT, ME, MA, NH, RI, VT, NJ, NY, PA

Hospital: Short-Term Acute Care Hospital (STACH).

Community: Discharges to the community without skilled home health care; includes individuals living at home, assisted living facilities, and retirement communities.

Formal Post-Acute Care Settings: Settings designated as post-acute care by Medicare. Includes skilled nursing facilities (SNF), home health agencies (HHA), inpatient rehabilitation facilities (IRF), and long-term acute care hospitals (LTACH).

Other: Hospice, a different Inpatient Hospital, or other Inpatient Hospitals such as Inpatient Psychiatric Facilities.

# Organizational Trends in Home Health

Table 5.5: Number of Medicare Beneficiaries with A Home Health Episode, by State, 2012

State	Number of Beneficiaries	State	Number of Beneficiaries	State	Number of Beneficiaries
Alabama	71,196	Kentucky	61,028	North Dakota	4,158
Alaska	2,461	Louisiana	74,849	Ohio	116,227
Arizona	37,231	Maine	19,527	Oklahoma	65,697
Arkansas	35,580	Maryland	60,672	Oregon	22,009
California	283,003	Massachusetts	107,248	Pennsylvania	143,824
Colorado	33,509	Michigan	153,295	Rhode Island	12,989
Connecticut	51,710	Minnesota	33,484	South Carolina	52,145
Delaware	12,025	Mississippi	56,183	South Dakota	4,562
District of Columbia	6,226	Missouri	67,053	Tennessee	81,933
Florida	343,558	Montana	6,664	Texas	350,774
Georgia	86,930	Nebraska	14,975	Utah	19,069
Hawaii	3,019	Nevada	23,683	Vermont	9,658
Idaho	12,001	New Hampshire	20,428	Virginia	90,694
Illinois	194,653	New Jersey	97,313	Washington	40,868
Indiana	62,052	New Mexico	16,664	West Virginia	22,566
Iowa	25,275	New York	183,594	Wisconsin	35,613
Kansas	24,298	North Carolina	107,398	Wyoming	3,670
				<b>Total U.S.</b>	<b>3,479,383</b>

Source: Avalere Health, LLC analysis of Medicare Standard Analytic Files, 2012

# Economic Contribution of Home Health Agencies

Table 6.1: Impact of Home Health on Employment, by State, 2012

State	Estimated Number of HH Employees <sup>1</sup>	Multiplier for Employment <sup>2</sup>	Estimated Jobs Created by HH Industry <sup>3</sup>	State	Estimated Number of HH Employees	Multiplier for Employment	Estimated Jobs Created by HH Industry
Alabama	11,825	1.5991	18,909	Montana	2,644	1.3420	3,548
Alaska	1,992	1.3092	2,608	Nebraska	3,076	1.3658	4,201
Arizona	21,812	1.4557	31,752	Nevada	5,174	1.5271	7,901
Arkansas	6,507	1.3464	8,761	New Hampshire	4,067	1.4778	6,010
California	69,734	1.5353	107,063	New Jersey	38,042	1.4886	56,629
Colorado	15,163	1.4976	22,708	New Mexico	11,965	1.3573	16,240
Connecticut	13,948	1.4889	20,767	New York	126,344	1.3856	175,062
Delaware	3,094	1.4677	4,541	North Carolina	40,106	1.4688	58,908
D.C.	4,875	1.1420	5,567	North Dakota	559	1.2881	720
Florida	66,308	1.6030	106,292	Ohio	59,974	1.4632	87,754
Georgia	22,200	1.6327	36,246	Oklahoma	19,344	1.4350	27,759
Hawaii	2,900	1.3753	3,988	Oregon	4,329	1.5238	6,597
Idaho	6,547	1.3459	8,812	Pennsylvania	40,566	1.6358	66,358
Illinois	39,174	1.5804	61,911	Rhode Island	5,155	1.4271	7,357
Indiana	19,163	1.5117	28,969	South Carolina	10,618	1.5086	16,018
Iowa	7,210	1.3389	9,653	South Dakota	974	1.2400	1,208
Kansas	10,337	1.3218	13,663	Tennessee	17,029	1.6312	27,778
Kentucky	8,692	1.5957	13,870	Texas	244,853	1.4728	360,619
Louisiana	24,095	1.5316	36,904	Utah	6,826	1.6727	11,418
Maine	4,000	1.4513	5,805	Vermont	2,156	1.3632	2,939
Maryland	14,424	1.5266	22,020	Virginia	25,461	1.4182	36,109
Massachusetts	32,971	1.5262	50,320	Washington	9,680	1.5287	14,798
Michigan	36,902	1.5259	56,309	West Virginia	7,753	1.3639	10,574
Minnesota	19,824	1.4104	27,960	Wisconsin	13,643	1.4272	19,471
Mississippi	7,432	1.5238	11,325	Wyoming	561	1.2931	725
Missouri	18,949	1.5154	28,715	<b>Total U.S.</b>	<b>1,190,977</b>	<b>N/A</b>	<b>1,772,140</b>

1: Quarterly Census of Employment and Wages (QCEW) collected by the U.S. Bureau of Labor Statistics

2. U.S. Bureau of Economic Analysis multipliers

3. Avalere calculation

Note: The QCEW collects employment data monthly. All states report employment figures on privately owned home health agencies, including for-profit and non-profit organizations. Alabama, Arkansas, Iowa, Minnesota, Missouri, North Carolina, Ohio and Virginia submit employment figures for their government-owned facilities, which are included in this analysis. The QWEC does not include jobs for HHA contractors, but the multiplier is intended to account for such jobs.



# Economic Contribution of Home Health Agencies

Table 6.2: Impact of Home Health on Labor Income, by State, 2012

State	Estimated Home Health Total Wages <sup>1</sup>	Multiplier for Earnings <sup>2</sup>	Estimated Impact of HH Payroll on Labor Income <sup>3</sup>	State	Estimated Home Health Total Wages	Multiplier for Earnings	Estimated Impact of HH Payroll on Labor Income
Alabama	\$436,249,968	1.4907	\$650,317,827	Montana	\$60,128,858	1.3740	\$82,617,051
Alaska	\$47,639,664	1.3685	\$65,194,880	Nebraska	\$93,981,595	1.3471	\$126,602,607
Arizona	\$597,082,306	1.5636	\$933,597,894	Nevada	\$212,126,377	1.4621	\$310,149,976
Arkansas	\$163,918,309	1.4149	\$231,928,015	New Hampshire	\$138,519,421	1.5361	\$212,779,683
California	\$2,322,196,911	1.6406	\$3,809,796,252	New Jersey	\$1,024,503,672	1.6215	\$1,661,232,704
Colorado	\$430,247,447	1.6524	\$710,940,881	New Mexico	\$230,880,251	1.4231	\$328,565,685
Connecticut	\$521,882,287	1.5237	\$795,192,041	New York	\$3,501,267,804	1.4943	\$5,231,944,480
Delaware	\$120,338,653	1.4332	\$172,469,357	North Carolina	\$927,745,533	1.6039	\$1,488,011,060
D.C.	\$123,861,491	1.1792	\$146,057,470	North Dakota	\$18,651,847	1.3203	\$24,626,034
Florida	\$2,341,432,911	1.5944	\$3,733,180,633	Ohio	\$1,422,903,654	1.6205	\$2,305,815,371
Georgia	\$704,672,677	1.6417	\$1,156,861,134	Oklahoma	\$468,616,715	1.4980	\$701,987,839
Hawaii	\$76,216,986	1.4868	\$113,319,415	Oregon	\$131,761,925	1.5263	\$201,108,226
Idaho	\$120,148,107	1.3857	\$166,489,232	Pennsylvania	\$1,490,599,246	1.6241	\$2,420,882,235
Illinois	\$1,176,482,481	1.6827	\$1,979,667,071	Rhode Island	\$145,296,138	1.5039	\$218,510,862
Indiana	\$508,936,775	1.5215	\$774,347,303	South Carolina	\$288,136,620	1.5440	\$444,882,941
Iowa	\$225,826,118	1.3544	\$305,858,894	South Dakota	\$21,373,225	1.2979	\$27,740,309
Kansas	\$253,647,042	1.3848	\$351,250,424	Tennessee	\$614,765,882	1.6075	\$988,236,155
Kentucky	\$340,275,137	1.5072	\$512,862,686	Texas	\$4,713,039,276	1.6640	\$7,842,497,355
Louisiana	\$708,008,650	1.4835	\$1,050,330,832	Utah	\$207,837,401	1.6235	\$337,424,021
Maine	\$117,807,967	1.4935	\$175,946,199	Vermont	\$65,441,224	1.4040	\$91,879,478
Maryland	\$531,130,335	1.5331	\$814,275,917	Virginia	\$674,562,410	1.5269	\$1,029,989,344
Massachusetts	\$1,190,816,183	1.5822	\$1,884,109,365	Washington	\$328,983,306	1.5315	\$503,837,933
Michigan	\$1,114,374,359	1.5796	\$1,760,265,737	West Virginia	\$190,737,802	1.3902	\$265,163,692
Minnesota	\$490,686,657	1.5593	\$765,127,704	Wisconsin	\$338,386,654	1.5223	\$515,126,003
Mississippi	\$289,088,566	1.4226	\$411,257,394	Wyoming	\$16,287,638	1.2900	\$21,011,053
Missouri	\$543,425,189	1.5758	\$856,329,413	<b>Total U.S.</b>	<b>\$32,822,927,650</b>	<b>N/A</b>	<b>\$51,709,596,070</b>

1: Quarterly Census of Employment and Wages (QCEW) collected by the U.S. Bureau of Labor Statistics

2. U.S. Bureau of Economic Analysis multipliers

3. Avalere calculation

Note: The QCEW collects wage data quarterly. All states report employment figures on privately owned home health agencies, including for-profit and non-profit organizations. Alabama, Arkansas, Iowa, Minnesota, Missouri, North Carolina, Ohio and Virginia submit wage data for their government-owned facilities, which are included in this analysis. The QWEC does not include wage data for HHA contractors, but the multiplier is intended to account for such wages.

# Economic Contribution of Home Health Agencies

Table 6.3: Impact of Home Health on Output, by State, 2012

State	Estimated Home Health Expenditures <sup>1</sup>	Multiplier for Output <sup>2</sup>	Estimated Impact of HH Spending on Output <sup>3</sup>	State	Estimated Home Health Expenditures	Multiplier for Output	Estimated Impact of HH Spending on Output
Alabama	\$575,332,769	2.007	\$1,154,692,867	Montana	\$39,740,319	1.7662	\$70,189,351
Alaska	\$1,478,030,114	1.7811	\$2,632,519,436	Nebraska	\$101,061,887	1.7286	\$174,695,578
Arizona	\$506,332,662	2.1218	\$1,074,336,642	Nevada	\$1,418,870,663	1.9412	\$2,754,311,731
Arkansas	\$282,995,371	1.8661	\$528,097,662	New Hampshire	\$180,325,932	2.0647	\$372,318,952
California	\$1,879,238,301	2.3116	\$4,344,047,257	New Jersey	\$398,486,834	2.29	\$912,534,850
Colorado	\$1,595,673,704	2.3194	\$3,701,005,589	New Mexico	\$121,641,305	1.8458	\$224,525,521
Connecticut	\$591,271,017	2.0916	\$1,236,702,459	New York	\$2,501,656,083	2.0703	\$5,179,178,589
Delaware	\$138,743,760	1.8907	\$262,322,827	North Carolina	\$649,050,987	2.2365	\$1,451,602,532
D.C.	\$140,398,450	1.2841	\$180,285,650	North Dakota	\$12,197,357	1.6653	\$20,312,259
Florida	\$2,629,719,933	2.181	\$5,735,419,174	Ohio	\$2,340,045,680	2.2747	\$5,322,901,908
Georgia	\$361,308,520	2.3034	\$832,238,045	Oklahoma	\$497,554,899	2.0018	\$996,005,397
Hawaii	\$23,980,038	1.9823	\$47,535,629	Oregon	\$99,183,900	2.0696	\$205,270,999
Idaho	\$59,988,025	1.7761	\$106,544,731	Pennsylvania	\$1,210,334,014	2.2799	\$2,759,440,519
Illinois	\$1,644,950,089	2.3944	\$3,938,668,493	Rhode Island	\$132,651,154	2.0158	\$267,398,196
Indiana	\$423,708,216	2.0867	\$884,151,934	South Carolina	\$152,315,815	2.1341	\$325,057,181
Iowa	\$745,935,964	1.7514	\$1,306,432,247	South Dakota	\$21,386,363	1.6396	\$35,065,081
Kansas	\$176,422,940	1.8267	\$322,271,784	Tennessee	\$594,706,480	2.2548	\$1,340,944,171
Kentucky	\$152,146,869	2.0484	\$311,657,646	Texas	\$3,872,872,980	2.3735	\$9,192,264,018
Louisiana	\$2,165,410,389	1.959	\$4,242,038,952	Utah	\$245,454,128	2.2794	\$559,488,139
Maine	\$191,300,245	2.0019	\$382,963,960	Vermont	\$102,729,278	1.8276	\$187,748,028
Maryland	\$529,775,541	2.0603	\$1,091,496,547	Virginia	\$571,276,012	2.086	\$1,191,681,761
Massachusetts	\$2,350,390,570	2.1786	\$5,120,560,896	Washington	\$232,653,222	2.095	\$487,408,500
Michigan	\$1,299,160,885	2.1743	\$2,824,765,512	West Virginia	\$67,053,715	1.8032	\$120,911,259
Minnesota	\$335,433,077	2.1534	\$722,321,588	Wisconsin	\$310,368,143	2.0534	\$637,309,945
Mississippi	\$587,483,856	1.8702	\$1,098,712,307	Wyoming	\$16,690,702	1.6201	\$27,040,606
Missouri	\$465,256,156	2.179	\$1,013,793,164	<b>Total U.S.</b>	<b>\$37,220,695,313</b>	<b>N/A</b>	<b>\$79,911,188,073</b>

1: CMS Medicare 2012 Cost Reports for Home Health Agencies

2. U.S. Bureau of Economic Analysis multipliers

3. Avalere calculation

Note: All Medicare-certified home health agencies are required to submit an annual cost report, which includes cost and charges by cost center in total and for Medicare. Cost report data do not include expenditures from HHA contractors, but the multiplier is intended to account for such figures.