



Assisted Living Residential Care Memory Care

2017 Chartbook

Spring 2017

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Section 1 – Communities¹

Table 1.1 – Number of Licensed Settings and Licensed Capacity, 2017

| Community Type | No. of Settings | Licensed Capacity | No. of Units |
|---|--------------------|----------------------|-----------------|
| Assisted Living (AL) | 225 ^a | 15,035 | 12,615 |
| Residential Care (RC) | 292 ª | 11,226 | 9,176 |
| Total of Assisted Living and Residential Care | 517 | 26,261 | 21,791 |
| Total of AL and RC with a Memory Care endorsement | 179 | 6,268 | _ |

- As of December 2016, there were 517 licensed AL and RC communities in Oregon.
- The licensed capacity for these settings totaled 26,261.
- Just over one-third of Oregon's 517 AL and RC communities have a memory care endorsement.

¹ For literature, references, and more information about this study, see the Oregon CBC Survey 2017 available at http://www.oregon.gov/DHS/SENIORS-DISABILITIES/Pages/publications.aspx and https://www.pdx.edu/ioa/oregon-community-based-care-project

Table 1.2 – Assisted Living and Residential Care Communities with a Memory Care Endorsement

| Type/Description ² | Total number of MCs (N) | Licensed Capacity (N) |
|--|-------------------------|-----------------------|
| Memory Care Communities are designated for persons with a diagnosis of Alzheimer's disease or other dementia and have additional requirements for staffing, services, and building design features. | 179 | 6,268 |
| Stand-alone MC | 31 | 1,034 |
| Combination AL/RC + MC | 148 | 5,234 |

• Approximately one-third of Oregon's 517 AL and RC communities have a memory care endorsement.

SOURCE: This chart is based on information about licensed facilities provided to PSU by DHS in December, 2016.

² A stand-alone MC is a setting that is licensed to provide memory care only, while "combination" refers to settings that have two of these licensure categories co-located on the same property.

Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 1 – Communities

Table 1.2 – Licensed Capacity and Occupancy Rates of Responding Communities, 2017

| Community Type | Community Type Licensed Capacity | | Occupancy Rate |
|----------------|----------------------------------|--------|----------------|
| AL | 8,680 | 6,823 | 79% |
| RC | RC 1,936 | | 79% |
| MC 3,354 | | 2,873 | 86% |
| Total | 13,970 | 11,219 | 80% |

• The occupancy rate among all CBCs was 80 percent, compared to 84 percent in 2016.

Table 1.3 – Response Rate by Region

| | AL % (n) | RC % (n) | MC % (n) | Combined % (n) | Total % (n) |
|---|-------------|-------------|-------------|-------------------|----------------|
| Portland Metro Clackamas, Columbia, Multnomah, Washington | 57% (44) | 39% (21) | 61% (31) | 29% (5) | 51% (101) |
| Willamette Valley Benton, Clatsop, Lane, Lincoln, Linn, Marion, Polk, Tillamook, Yamhill | 66% (46) | 70% (14) | 56% (29) | 17% (2) | 59% (91) |
| Southern Oregon Coos, Curry, Douglas, Jackson, Josephine | 67% (20) | 62% (13) | 71% (17) | 100% (1) | 67% (51) |
| Eastern Oregon Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, Wheeler | 75% (33) | 73% (16) | 76% (16) | 0% (0) | 74% (65) |
| Total | 65% (143) | 55% (64) | 63% (93) | 26% (8) | 60% (308) |

[•] A total of 308 facilities responded for a response rate of 60 percent.

Section 2 – Community Services and Policies

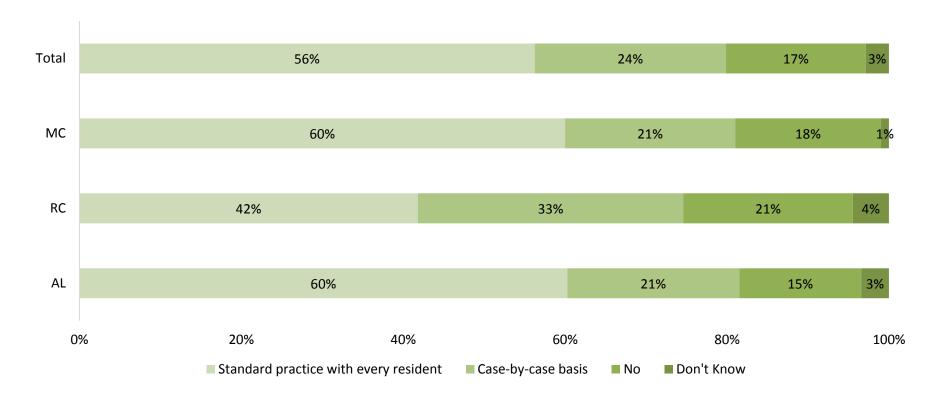
Table 2.1 – Resident Needs and Behaviors that Prompted a Move-Out Notice in the Prior Year*

| | AL | RC | MC | Total |
|--|----------|----------|----------|----------|
| | % (n) | % (n) | % (n) | % (n) |
| Hitting/acting out with anger | 9% (13) | 18% (12) | 18% (18) | 14% (43) |
| Two-person transfer | 14% (21) | 6% (4) | 7% (7) | 10% (32) |
| Wandering outside | 12% (18) | 3% (2) | 0% (0) | 6% (20) |
| Lease violations (excluding non-payment) | 1% (2) | 6% (4) | 0% (0) | 2% (6) |
| Non-payment | 12% (18) | 13% (9) | 11% (11) | 12% (38) |
| Sliding scale insulin | 0% (0) | 0% (0) | 1% (1) | 0% (1) |

^{*}Note: % = Percent of facilities that gave a move out notice to a resident; n = Number of facilities that gave a move-out notice to a resident

- Facilities were asked which of several potential reasons had been used for a move-out notice given to a resident in the prior year. The most common reason was hitting/acting out with anger, followed by non-payment of facility fees. MC communities did not give any notices for residents who wandered outside, compared to 12 percent of ALs that did so.).
- Wandering is a behavioral symptom that affects some persons with dementia. It includes getting lost, trying to leave the building, and searching for home.

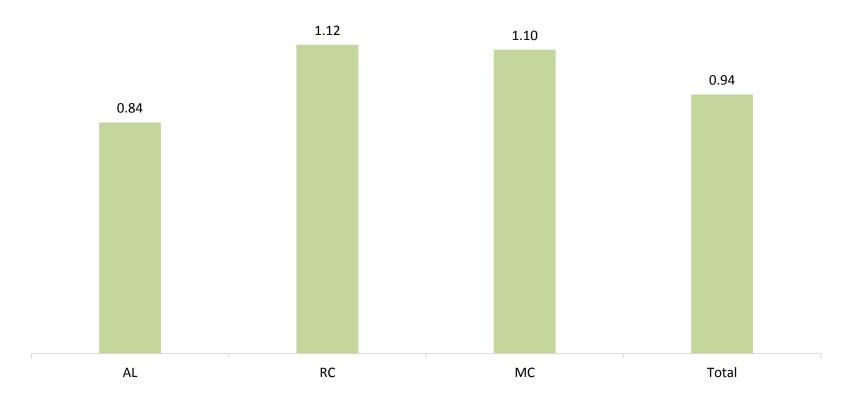
Figure 2.1 – Use of Fall Risk Assessment by Setting



- The majority of communities reported use of a fall risk assessment as a standard practice with every resident or on a case-by-case basis (80 percent).
- A larger percentage of MCs reported using a fall risk assessment; MCs also reported a larger percentage of residents who had fallen in the past 3 months (see Residents Section).

Section 3 – Staff

Figure 3.1 – Ratio of All Employees to Current Residents



• The ratio of employees to residents was higher for RC (1.12) compared to MC (1.10) and AL (.84).

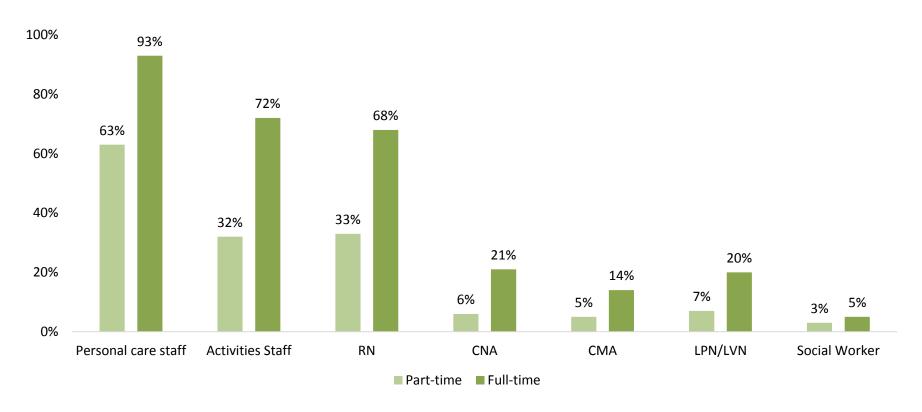
Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 3 – Staff

Table 3.1 – Percent of Staff Employed Part-Time or Full-Time, by Employee Categories

| | Part-time % (n) | Full-time % (n) | Total % (n) |
|---------------------|--------------------|--------------------|----------------|
| RN | 2% (110) | 3% (199) | 5% (309) |
| LPN | <1% (26) | 1% (65) | 1% (91) |
| CNA | 1% (56) | 3% (165) | 4% (221) |
| СМА | <1% (27) | 3% (171) | 3% (198) |
| Personal care staff | 16% (959) | 64% (3,868) | 79% (4,827) |
| Social worker | <1% (7) | <1% (16) | <1% (23) |
| Activities staff | 2% (110) | 5% (293) | 7% (403) |
| Total | 21% (1,295) | 79% (4,777) | 6,072 |

Responding facilities reported 4,827 personal care staff accounting for the majority of all AL, RC, and MC employees (79 percent).

Figure 3.2 – Percent of Facilities Employing Part-Time or Full-Time Staff, by Employee Category



- The most commonly employed staff type across all communities was personal care staff.
- RNs were more likely to be employed than LPN/LVNs.

SOURCE: Oregon CBC Chartbook, 2017: AL, RC, and MC, Figure 7

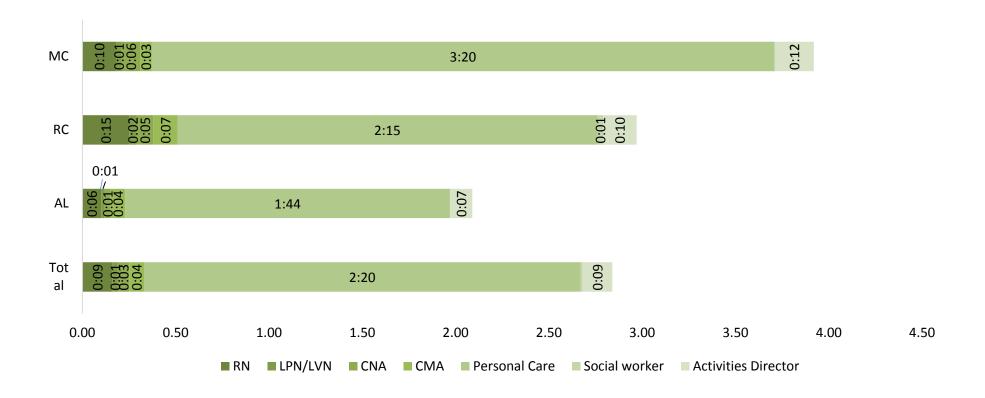
Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 3 – Staff

Table 3.2 – Facilities that Employed Part-Time or Full-Time Staff, by Employee Categories, by Setting

| | AL | | R | RC | | МС | | Total | |
|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| | Part-time % (n) | Full-time % (n) | |
| RN | 25% (32) | 78% (98) | 60% (33) | 45% (25) | 28% (23) | 67% (55) | 33% (88) | 68% (178) | |
| LPN/LVN | 2% (3) | 18% (23) | 11% (6) | 20% (11) | 11% (9) | 22% (18) | 7% (18) | 20% (52) | |
| CNA | 6% (7) | 15% (19) | 9% (5) | 25% (14) | 5% (4) | 27% (22) | 6% (16) | 21% (55) | |
| СМА | 6% (7) | 17% (21) | 5% (3) | 13% (7) | 5% (4) | 12% (10) | 5% (14) | 14% (38) | |
| Personal Care Staff | 59% (74) | 94% (118) | 73% (40) | 85% (47) | 62% (51) | 96% (79) | 63% (165) | 93% (244) | |
| Social Workers | 2% (3) | 3% (4) | 5% (3) | 11% (6) | 1% (1) | 2% (2) | 3% (7) | 5% (12) | |
| Activities Staff | 31% (39) | 81% (102) | 36% (20) | 49% (27) | 32% (26) | 74% (61) | 32% (85) | 72% (190) | |

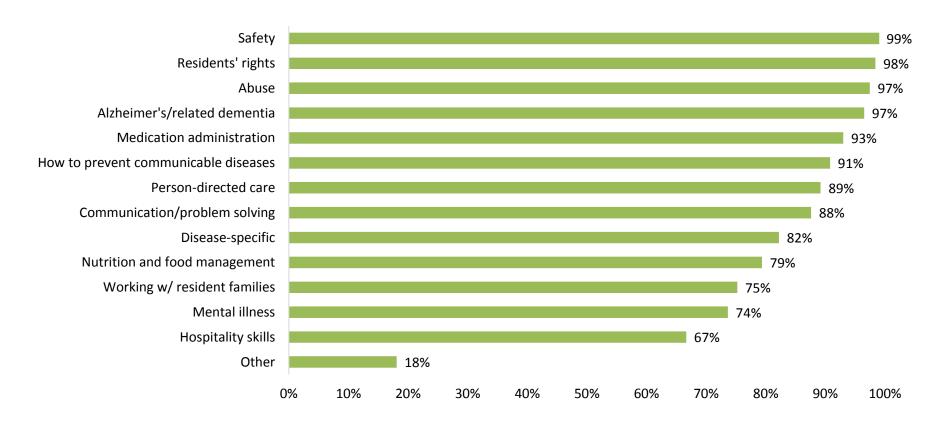
- This table provides additional details on staff types employed by specific facility types.
- A larger percent of facilities employed an RN full time (68 percent), rather than part time (33 percent).

Figure 3.3 – Staffing Level in Hours, by Staff and Facility Type



- Overall, Oregon's combined staffing level for all care-related employees was 2 hours and 46 minutes.
- MC communities have the highest staffing levels.

Figure 3.4 – Staff Training Topics Covered in the Prior 12 Months



• The four most common training topics covered, based on a list provided in the questionnaire, included safety, residents' rights, abuse, and Alzheimer's/related dementia.

Section 4 – Rates, Fees, and Medicaid Use

Table 4.1 – Monthly Private-Pay Charges by Setting

| | AL | RC | МС |
|---|---------|---------|---------|
| Average base monthly charge | \$3,264 | \$3,323 | \$4,941 |
| Minimum | \$733 | \$1,400 | \$2,850 |
| Maximum | \$4,920 | \$9,024 | \$9,024 |
| Average total monthly charge (including services) | \$3,667 | \$3,770 | \$5,410 |
| Minimum | \$856 | \$1,400 | \$3,675 |
| Maximum | \$6,000 | \$9,024 | \$9,024 |

- For RC and MC, the highest base monthly charge exceeded \$9,000 per month.
- The difference between MC and AL/RC rates was about \$1,750 per month.

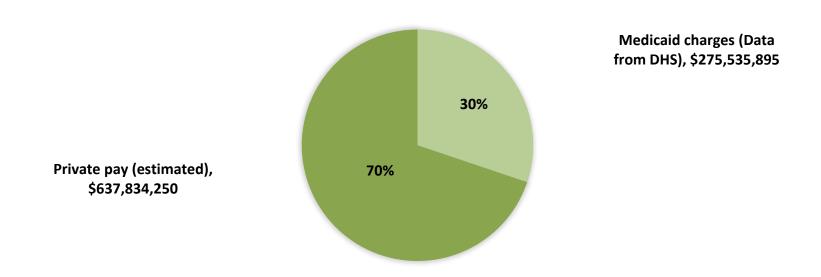
Figure 4.1 – Average Private-Pay Total Monthly Charges



- The mean total monthly rates were about 10-13 percent higher than the base rate, with ALs charging \$3,667, RCs charging \$3,770, and MCs charging an additional \$1,640 per month, for a total of \$5,168, on average.
- These rates are similar to the median rate for Oregon, \$3,880 per month, reported in a national survey of assisted living costs (Genworth, 2015).

SOURCE: Calculated based on CBC provider responses

Figure 4.4 – Estimated Total Annual Charges for AL, RC, and MC in Oregon



- The total estimated annual charges in Oregon for AL, RC, and MC were over three quarters of a billion dollars (\$870,365,102), of which 30 percent were Medicaid charges (including room and board charges) paid by DHS on behalf of Medicaid-eligible residents.
- Based on responses and estimates for non-respondents, we estimate that the total private pay charges were \$613,344,711 annually. According to DHS, providers billed a total of \$257,020,390 between January and December 2015 for Medicaid services on behalf of AL, RC, and MC residents in Oregon.

Table 4.2 – Estimated Annual Profession Charges for Oregon AL, RC, MC

| | Questionnaire Respondent Facilities | AL | RC | MC | Totals | | | | |
|---|---|-----------------|--------------|-------------|---------------|--|--|--|--|
| | Private Pay | | | | | | | | |
| | Total current residents | 6,823 | 1,523 | 2,873 | 11,219 | | | | |
| - | Total current Medicaid beneficiaries | 2,660 | 733 | 1,201 | 4,594 | | | | |
| = | Total of current private pay residents | 4,163 | 790 | 1,672 | 6,625 | | | | |
| Х | Average total monthly charge incl. | \$3,667 | \$3,770 | \$5,410 | | | | | |
| | services | | | | | | | | |
| = | Total private pay charges | \$15,265,721 | \$2,978,300 | \$9,045,520 | \$27,289,541 | | | | |
| | Other Facilities in Oregon (non- | AL | RC | MC | Totals | | | | |
| | respondents) | | | | | | | | |
| | Private Pay | | | | | | | | |
| | Licensed capacity | 6,241 | 3,136 | 2,914 | | | | | |
| Χ | Occupancy rate* | 0.79 | 0.79 | 0.86 | | | | | |
| = | Estimated total current residents | 4,930 | 2,477 | 2,506 | 9,914 | | | | |
| Х | Estimated % of Medicaid residents ^a | 39% | 38% | 34% | | | | | |
| = | Estimated total Medicaid beneficiaries | 1,900 | 930 | 858 | 3,688 | | | | |
| | Estimated total current residents | 4,930 | 2,477 | 2,506 | 9,914 | | | | |
| - | Estimated total Medicaid beneficiaries | 1,900 | 930 | 858 | 3,688 | | | | |
| = | Estimated total private pay residents | 3,030 | 1,547 | 1,648 | | | | | |
| х | Average total monthly charge incl. | \$3,667 | \$3,770 | \$5,410 | | | | | |
| | services. ^b | | | | | | | | |
| | Total est. charges for private pay 11,111,309 \$5,833,739 \$8,918,265 residents | | | | | | | | |
| | Estimated Total Annual Private Pay Charges | | | | | | | | |
| | Total Annual Medicaid C | harges Paid (da | ta from DHS) | | \$275,535,895 | | | | |
| | Total Annual Profession Charges | | | | | | | | |

Note. AL = assisted living; RC = residential care; MC = memory care community.

• The calculation of industry charges was informed by a similar calculation conducted using data from the national survey of residential care communities (Khatutsky et al., 2016), resulting in total estimated industry charges nationally.

^aEstimated proportion of Medicaid residents applies the ratio of facilities with a Medicaid contract among respondents with those of non-respondents and assumes the same ratio of residents who are Medicaid beneficiaries. Fewer Medicaid contracts among non-respondents likely results in fewer Medicaid beneficiaries among non-respondent communities.

^bRate of respondents applied to non-respondents.

Table 4.3 – Average Base Monthly Charge

| | AL | RC | MC | Total |
|--------------------|------------|-----------|-----------|------------|
| | % (n) | % (n) | % (n) | % (n) |
| Less than \$2,000 | 5% (7) | 9% (5) | 0% (0) | 4% (12) |
| \$2,001 to \$4,000 | 82% (119) | 74% (42) | 10% (10) | 57% (171) |
| \$4,001 to \$6,000 | 13% (19) | 14% (8) | 80% (78) | 35% (105) |
| \$6,001 to \$8,000 | 0% (0) | 2% (1) | 7% (7) | 3% (8) |
| \$8,001 or more | 0% (0) | 2% (1) | 2% (2) | 1% (3) |
| Total | 100% (145) | 100% (57) | 100% (97) | 100% (299) |

SOURCE: Oregon CBC Survey 2017: AL, RC, MC, Table A3

Table 4.4 – Average Total Monthly Charge

| | AL | RC | MC | Total |
|--------------------|------------|-----------|-----------|------------|
| | % (n) | % (n) | % (n) | % (n) |
| Less than \$2,000 | 3% (4) | 2% (1) | 0% (0) | 2% (5) |
| \$2,001 to \$4,000 | 65% (92) | 61% (34) | 4% (4) | 44% (130) |
| \$4,001 to \$6,000 | 32% (46) | 30% (17) | 73% (70) | 45% (133) |
| \$6,001 to \$8,000 | 0% (0) | 5% (3) | 21% (20) | 8% (23) |
| \$8,001 or more | 0% (0) | 2% (1) | 2% (2) | 1% (3) |
| Total | 100% (142) | 100% (56) | 100% (96) | 100% (294) |

SOURCE: Oregon CBC Survey 2017: AL, RC, MC, Table A4

Table 4.5 – Monthly Private Pay Charges by Setting *(Excluding outliers)

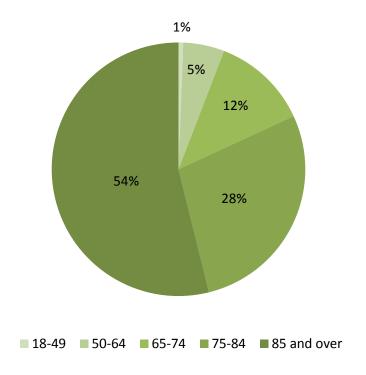
| | AL | RC | MC |
|---|---------|---------|---------|
| Average base monthly charge | \$3,309 | \$3,105 | \$4,836 |
| Average total monthly charge (including services) | \$3,767 | \$3,656 | \$5,333 |

^{*}A small number of outliers can affect the average. See https://docs.tibco.com/pub/spotfire/7.0.1/doc/html/stat/stat_adjacent_values_and_outliers.htm for a description of how outliers were determined for this analysis.

Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 5 – Residents

Section 5 – Residents

Figure 5.1 – Age Distribution of Residents Across all Community-Based Care Settings



• The majority (94 percent) of residents were 65 years of age or older.

Table 5.1 – Gender and Age of Residents

| | AL % (n) | RC % (n) | MC % (n) | Total % (n) |
|-------------|-------------|-------------|-------------|----------------|
| Gender | | | | |
| Male | 27% (1,912) | 41% (653) | 26% (752) | 30% (3,317) |
| Female | 72% (4,862) | 59% (924) | 74% (2,130) | 70% (7,916) |
| Transgender | <1% (1) | <1% (1) | - | <1% (2) |
| Age Groups | | | | |
| <18 | - | - | - | - |
| 18-49 | <1% (33) | 2% (33) | <1% (2) | 1% (68) |
| 50-64 | 4% (288) | 15% (239) | 2% (63) | 5% (590) |
| 65-74 | 11% (749) | 22% (353) | 10% (276) | 12% (1,378) |
| 75-84 | 28% (1,929) | 19% (297) | 32% (920) | 28% (3,146) |
| 85 and over | 56% (3,776) | 42% (656) | 56% (1,621) | 54% (6,053) |
| Total | 6,775 | 1,578 | 2,882 | 11,235 |

- The majority (70 percent) of residents were female. MC had the highest percentage (74 percent) of female residents compared to AL (72 percent) and RC (59 percent).
- The majority (54 percent) of residents were age 85 and over. Both AL and MC had the highest percentage (54 percent) of residents aged 85 and over.

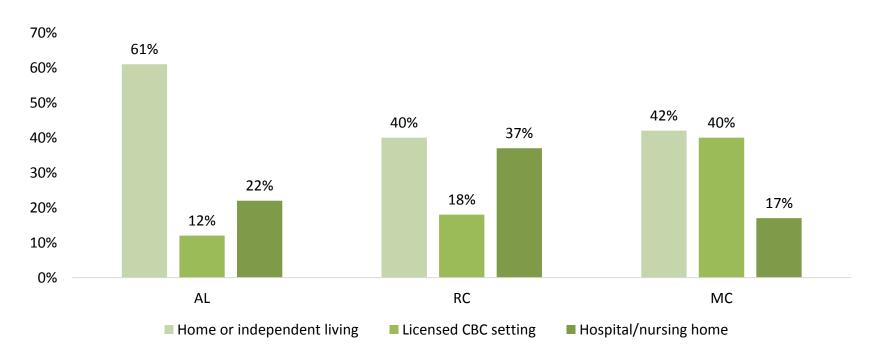
Table 5.2 – Race of Residents

| | AL % (n) | RC % (n) | MC % (n) | Total % (n) |
|--|-------------|-------------|-------------|----------------|
| Hispanic Latino | 1% (54) | 2% (30) | 2% (45) | 1% (129) |
| American Indian or Alaska Native | 1% (55) | 1% (19) | <1% (8) | 1% (82) |
| Asian | 1% (55) | 1% (11) | 2% (44) | 1% (110) |
| Black | 1% (56) | 1% (23) | 1% (34) | 1% (113) |
| Native Hawaiian/other Pacific Islander | <1% (20) | 1% (17) | <1% (8) | <1% (45) |
| White | 90% (6,124) | 86% (1,354) | 91% (2,628) | 90% (10,106) |
| Two or more races | <1% (11) | 1% (10) | <1% (12) | <1% (33) |
| Other or Unknown | 6% (400) | 7% (114) | 4% (103) | 5% (617) |
| Total | 6,775 | 1,578 | 2,882 | 11,235 |

- The majority (90 percent) of residents were White, non-Hispanic. MC had the highest percentage (91 percent) of residents who were White, non-Hispanic.
- Although, most residents were White and non-Hispanic, two percent of MC residents were Asian and two percent of RC residents were Hispanic Latino.

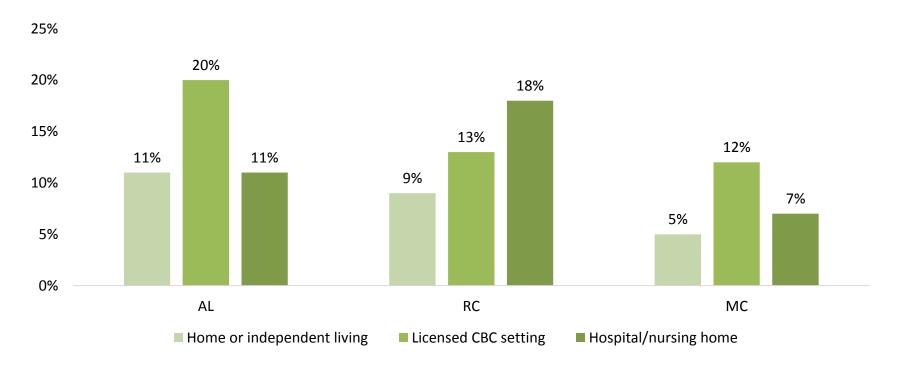
Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 5 – Residents

Figure 5.2 – Most Common Resident Locations Prior to Move-In, by Setting Type



• Residents who moved into AL, RC, or MC were most likely to move from home, although there was variation by setting type (AL: 61 percent; RC: 40 percent; and MC: 42 percent).

Figure 5.3 – Most Common Resident Move-Out Locations



- Residents were most likely to leave an AL, RC, or MC due to death (62 percent), although there was variation by setting type (AL: 56 percent; RC: 58 percent; and MC: 74 percent).
- AL and MC residents were most likely to move out to another licensed CBC setting.
- RC residents were most likely to move out to a hospital or nursing home (18 percent).

Table 5.3 – Move-In and Move-Out Location of Residents

| | Al | L | RC | | MC | | Total | |
|--------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| | In | Out | In | Out | In | Out | In | Out |
| Locations | % (n) | % (n) | % (n) | % (n) | % (n) | % (n) | % (n) | % (n) |
| Home | 40% (296) | 5% (36) | 19% (31) | 6% (11) | 28% (134) | 3% (16) | 33% (461) | 4% (63) |
| Home of | 9% (66) | 4% (30) | 4% (7) | 1% (1) | 9% (45) | 2% (9) | 9% (118) | 3% (40) |
| relative | | | | | | | | |
| Independent | 12% (90) | 2% (15) | 17% (28) | 2% (4) | 5% (23) | <1% (0) | 10% (141) | 1% (19) |
| living | | | | | | | | |
| AL/RC | 10% (74) | 5% (39) | 13% (21) | 3% (6) | 27% (131) | 3% (14) | 16% (226) | 4% (59) |
| Memory | 1% (11) | 11% (85) | 2% (3) | 6% (11) | 9% (43) | 6% (29) | 4% (57) | 9% (125) |
| care | | | | | | | | |
| Hospital | 4% (27) | 1% (7) | 18% (29) | 5% (9) | 10% (46) | 3% (16) | 7% (102) | 2% (32) |
| Adult foster | 1% (9) | 4% (27) | 3% (5) | 4% (7) | 4% (19) | 3% (15) | 2% (33) | 3% (49) |
| care | | | | | | | | |
| Nursing | 18% (133) | 10% (80) | 19% (31) | 13% (23) | 7% (33) | 4% (18) | 14% (197) | 9% (121) |
| facility | | | | | | | | |
| Other | 1% (9) | 1% (9) | 4% (6) | 1% (2) | 1% (3) | 0% (2) | 1% (18) | 1% (13) |
| Died | - | 56% (427) | - | 58% (104) | - | 74% (339) | - | 62% (870) |
| Don't know | 3% (21) | 2% (14) | 1% (2) | 1% (1) | <1% (1) | <1% (2) | 2% (24) | 1% (17) |
| Total | 736 | 769 | 163 | 179 | 478 | 460 | 1377 | 1408 |

- This table provides a detailed look at the location of residents prior to move-in and their destination location upon move-out (see also Figure 5.3).
- Most residents moved in from home (33 percent) while the majority moved out due to death (62 percent).

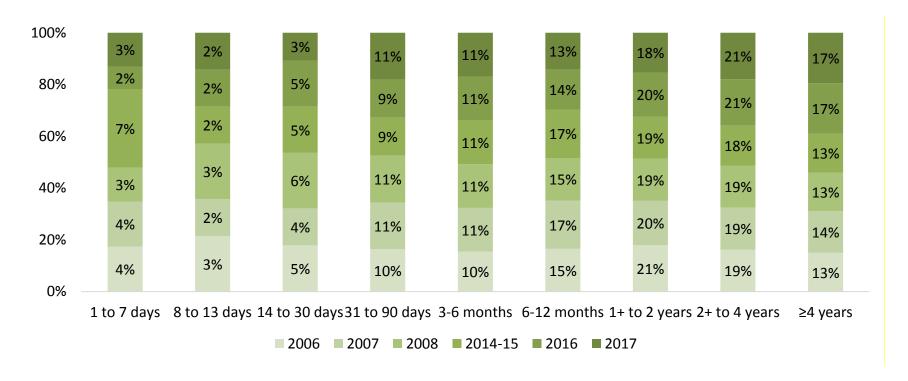
Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 5 – Residents

Table 5.4 - Length of Stay

| | AL % (n) | RC % (n) | MC % (n) | Total % (n) |
|----------------------------|-------------|-------------|--------------------|----------------|
| 1-7 days | 2% (14) | 7% (13) | 4% (19) | 3% (46) |
| 8-13 days | 1% (11) | 4% (8) | 2% (8) | 2% (27) |
| 14-30 days | 3% (23) | 7% (13) | 3% (13) | 3% (49) |
| 31-90 days | 8% (66) | 8% (16) | 16% (76) | 11% (158) |
| 91-180 days (3-6 months) | 11% (88) | 17% (33) | 10% (45) | 11% (166) |
| 181 - 1 year (6-12 months) | 15% (119) | 7% (14) | 13% (61) | 13% (194) |
| | | То | tal under one year | 44% (446) |
| 1-2 years | 18% (142) | 13% (24) | 19% (89) | 18% (255) |
| 2-4 years | 23% (181) | 19% (37) | 18% (86) | 21% (304) |
| More than 4 years | 19% (149) | 17% (32) | 15% (68) | 17% (249) |
| | | Т | otal over one year | 56% (1002) |
| Total | 793 | 190 | 465 | 1,448 |

- Over half (56 percent) of residents who moved out in the prior three months had stayed for one year or longer before moving.
- AL residents had the longest length of stay, with 60 percent of residents staying for one year or longer, followed by MC residents (52 percent), and RC residents (49 percent).
- 13 percent of settings reported stays of 90 or fewer days compared to 18 percent in 2016.

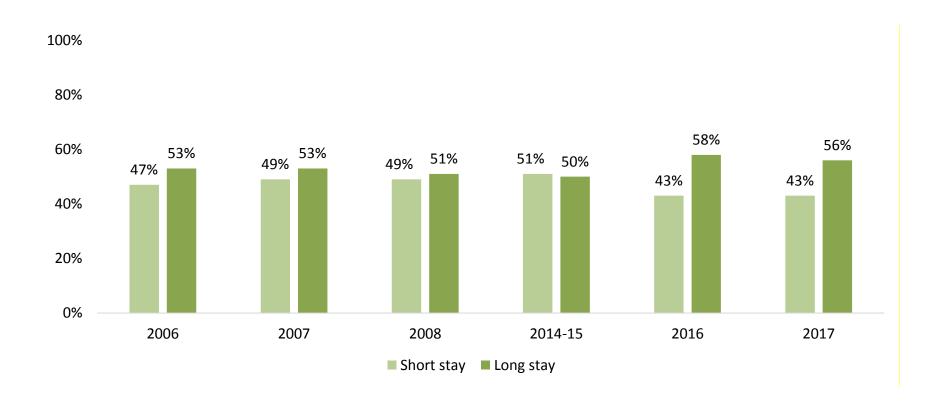
Figure 5.4 – Resident Length of Stay, 2006-2017



- The percent of residents with stays of less than 30 days has remained somewhat stable over time.
- The percent of residents with long stays might be affected by the age of the facility which is not accounted for in this chart.

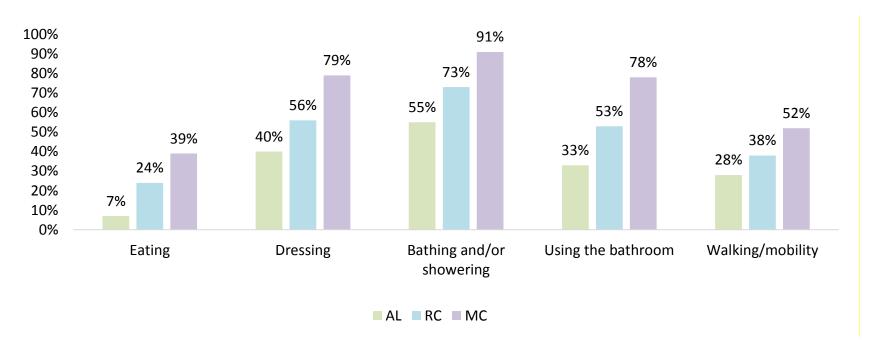
Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 5 – Residents

Figure 5.5 – Change in Length of Stay for Short- and Long-term Stays, 2006-2017



Short stay respite care provides temporary living and services for older adults and their informal caregivers. The percent of
residents with short stays has decreased slightly over time while the percent with longer stays has increased. This rate
might be affected by the age of the facility.

Figure 5.6 – Percent of Residents Receiving Staff Assistance with Activities of Daily Living (ADLs)



- The majority of residents receive staff assistance to bathing and/or showering.
- A larger percent of MC residents, compared to AL and RC residents, receive staff assistance with ADLs.

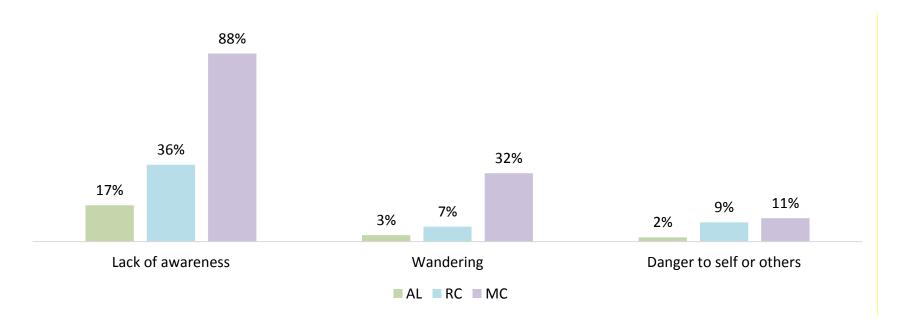
Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 5 – Residents

Table 5.5 – Percent of Residents Receiving Assistance with ADLs

| | AL % (n) | RC | MC | Total |
|---------------------------|--------------------------|--------------------|----------------------|-----------------------------|
| | % (n) 7% (473) | % (n) 24% (338) | % (n) 39% (1,115) | % (n) 18% (1,926) |
| Eating | | | | |
| Dressing | 40% (2,629) | 56% (803) | 79% (2,252) | 53% (5,684) |
| Pathing and for chawaring | 55% (3,629) | 73% (1,050) | 91% (2,569) | 67% (7,248) |
| Bathing and/or showering | 33% (2,157) | 53% (752) | 78% (2,209) | 47% (5,118) |
| Using the bathroom | | | | |
| Walking/mobility | 28% (1,805) | 38% (540) | 52% (1,477) | 35% (3,822) |

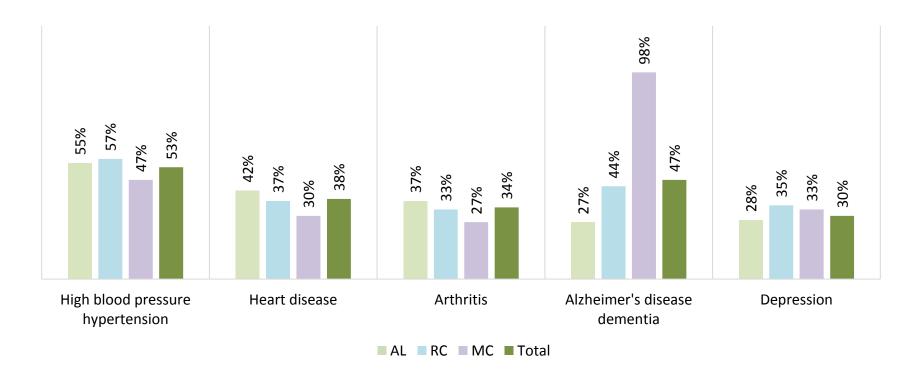
- Across all setting types, 67 percent of residents required assistance with bathing and/or showering, 53 percent required assistance with dressing, 47 percent required assistance with using the bathroom, and 35 percent required assistance with mobility.
- MC had the highest percentage of residents who needed assistance with all personal care needs.

Figure 5.7 -- Residents Receiving Staff Assistance for Behavioral Symptoms



- MC residents were more likely to receive staff assistance with behavioral symptoms.
- Lack of awareness was the major behavioral symptom requiring staff assistance across all community types.

Figure 5.8 – Most Common Diagnosed Chronic Conditions by Setting



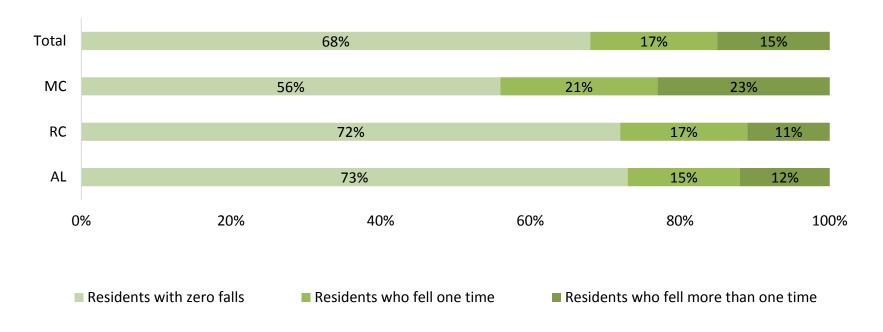
- The five most common diagnosed chronic conditions among residents across all setting types were hypertension (53 percent), Alzheimer's disease or other dementias (47 percent), heart disease (38 percent), arthritis (34 percent), and depression (30 percent).
- Alzheimer's disease and other dementias was highest in memory care (98 percent).

Table 5.6 – Resident Chronic Conditions

| | AL | RC | MC | Total |
|---------------------------------------|-------------|-----------|-------------|-------------|
| | % (n) | % (n) | % (n) | % (n) |
| Heart disease | 42% (2,860) | 37% (554) | 30% (838) | 38% (4,252) |
| Alzheimer's disease/dementia | 27% (1,886) | 44% (657) | 98% (2,767) | 47% (5,310) |
| High blood pressure/hypertension | 55% (3,803) | 57% (847) | 47% (1,332) | 53% (5,982) |
| Depression | 28% (1,954) | 35% (529) | 33% (925) | 30% (3,408) |
| Serious mental illness (bipolar, | 5% (324) | 17% (253) | 7% (211) | 7% (788) |
| schizophrenia) | | | | |
| Diabetes | 21% (1,427) | 20% (302) | 15% (430) | 19% (2,159) |
| Cancer | 9% (606) | 7% (104) | 7% (201) | 8% (911) |
| Osteoporosis | 19% (1,321) | 20% (294) | 21% (581) | 20% (2,196) |
| COPD and allied conditions | 15% (998) | 17% (255) | 11% (322) | 14% (1,575) |
| Current drug and/or alcohol abuse | 2% (138) | 3% (49) | <1% (13) | 2% (200) |
| | 2% (107) | 2% (29) | 1% (28) | 1% (164) |
| Intellectual/developmental disability | | | | |
| Arthritis | 37% (2,546) | 33% (497) | 27% (764) | 34% (3,807) |
| Traumatic brain injury | 2% (121) | 5% (81) | 2% (58) | 2% (260) |

- This table provides additional details about the chronic conditions of residents in AL, RC, and MC (see also Figure 5.8).
- AL residents were most likely to have high blood pressure/hypertension (55 percent), heart disease (42 percent), and arthritis (37 percent).
- RC residents were most likely to have high blood pressure/hypertension (57 percent), heart disease (37 percent), and Alzheimer's disease or other dementias (44 percent).
- MC residents were most likely to have Alzheimer's disease and or other dementias (98 percent), high blood pressure/hypertension (47 percent), and depression (33 percent).

Figure 5.9 – Resident Falls by Setting



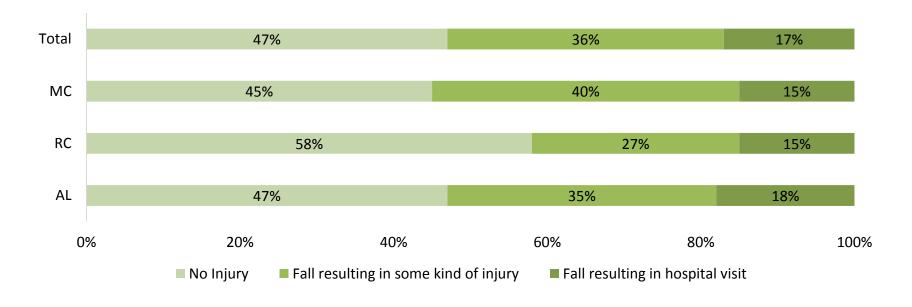
- Most residents had zero falls in the previous 90 days (68 percent).
- The highest percentage of falls was among MC residents, with 21 percent of residents falling once in the previous 90 days and 23 percent falling more than once.

Table 5.7 – Resident Falls by Setting

| | AL % (n) | RC % (n) | MC % (n) | Total % (n) |
|---------------------------------------|-------------|-------------|-------------|----------------|
| Residents with zero falls | 73% (3,531) | 72% (763) | 56% (1,206) | 68% (5,500) |
| Residents who fell one time | 15% (724) | 17% (182) | 21% (451) | 17% (1,357) |
| Residents who fell more than one time | 12% (595) | 11% (117) | 23% (492) | 15% (1,204) |
| Total | 4,850 | 1,062 | 2,149 | 8,061 |

- This table provides a detailed look at resident falls in AL, RC, and MC (see also Figure 5.9).
- Overall, two-thirds (68 percent) of residents did not fall in the previous 90 days.
- AL had the highest percentage (73 percent) of residents who had not fallen in the previous 90 days.

Figure 5.10 - Falls Resulting in Injury or Hospitalization by Setting



- Nearly half (47 percent) of residents who had fallen in the previous 90 days did not have a fall that resulted in injury, while 36 percent had a fall that resulted in an injury, and 17 percent had a fall that resulted in a hospital visit.
- The residents most likely to have a fall resulting in an injury over the previous 90 days lived in MC (40 percent), but MC residents had slightly fewer falls that resulted in a hospital visit (15 percent) compared to AL.

Oregon Community-Based Care Chartbook, 2017: Assisted Living, Residential Care, and Memory Care Section 5 – Residents

Table 5.8 – Falls Resulting in Injury or Hospitalization

| | AL % (n) | RC % (n) | MC % (n) | Total % (n) |
|---------------------------------------|-------------|-------------|-------------|----------------|
| Fall resulting in some kind of injury | 35% (461) | 27% (82) | 40% (381) | 36% (924) |
| Fall resulting in hospital visit | 18% (242) | 15% (44) | 15% (140) | 17% (426) |

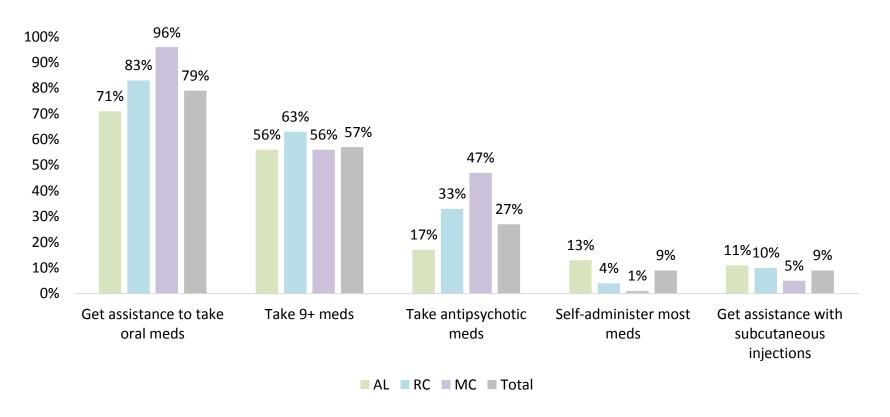
- This table provides a detailed look at resident falls resulting in injury in AL, RC, and MC (see also Figure 5.10).
- Overall, 36 percent of residents had a fall that resulted in some kind of injury and 17 percent had a fall that resulted in a hospital visit. MC had a higher percentage (40 percent) of residents who had fallen in the previous 90 days who a fall that resulted in some kind of injury compared to RC (27 percent) and AL (35 percent).

Table 5.9 – Health Service Utilization by Setting

| | AL % (n) | RC % (n) | MC % (n) | Total % (n) |
|--|-------------|-------------|-------------|----------------|
| Treated in a hospital emergency room (ER) in the last 90 days | 17% (1,072) | 17% (201) | 17% (441) | 17% (1,714) |
| Discharged from an overnight hospital stay in the last 90 days | 9% (548) | 10% (117) | 9% (234) | 9% (899) |
| Went back to the hospital within 30 days | 31% (168) | 28% (33) | 18% (43) | 27% (244) |
| Received hospice care in the last 90 days | 6% (349) | 8% (96) | 12% (297) | 8% (742) |

- Overall, 17 percent of residents were treated in an emergency department in the previous 90 days.
- Overnight hospital stays by residents in the previous 90 days across all three settings were reported at the same rate as the national level (9 percent).
- Overall, 9 percent of residents received hospice care in the previous 90 days, with MC having the highest percentage (12 percent) of residents receiving hospice care.

Figure 5.11 – Medication Assistance by Setting



- Over three-quarters (79 percent) of residents across the three types of CBC settings received staff assistance to take oral medications. While fewer AL (71 percent) and RC (83 percent) residents used medication assistance, nearly all MC residents (93 percent) received assistance to take oral medications.
- Across all setting types, receiving assistance with subcutaneous injection medications (9 percent), receiving nurse treatments from a licensed nurse (6 percent), and receiving injections from a licensed nurse (2 percent) were less common.

Table 5.10 - Medication Usage and Assistance by Setting

| | AL % (n) | RC % (n) | MC % (n) | Total % (n) |
|--|-------------|-------------|-------------|----------------|
| No medication/injection | 2% (127) | 1% (11) | 1% (23) | 1% (161) |
| Nine or more medications | 56% (3,635) | 63% (903) | 56% (1,604) | 57% (6,142) |
| Antipsychotic medication | 17% (1,070) | 33% (478) | 47% (1,362) | 27% (2,910) |
| Self-administer most medications | 13% (872) | 4% (57) | 1% (18) | 9% (947) |
| Receive assistance to take oral medications | 71% (4,572) | 83% (1,201) | 96% (2,781) | 79% (8,554) |
| Receive assistance with subcutaneous injection medications | 11% (711) | 10% (140) | 5% (131) | 9% (982) |
| Receive injections for a licensed nurse | 2% (119) | 2% (36) | 2% (60) | 2% (215) |
| Receive nurse treatments from a licensed nurse | 5% (338) | 8% (116) | 8% (227) | 6% (681) |

- This table provides additional details about medication usage by residents in AL, RC, and MC (see also Figure 5.11).
- The proportion of residents who take no medications at all is very low, at one percent overall.
- Overall, 57 percent of residents take nine or more medications and 27 percent took an antipsychotic medication.

 Antipsychotic medication use was highest in MC at 47 percent, followed by RC at 33 percent of residents, and 17 percent in AL.