



**Nursing Facilities, Staffing,
Residents and Facility
Deficiencies, 2005 Through 2010**

by

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STATE DATA ON NURSING FACILITIES, STAFFING, RESIDENTS, AND FACILITY DEFICIENCIES, 2005 THROUGH 2010

Introduction

The large state and federal expenditures for freestanding nursing facilities (estimated to be \$144 billion in 2009) have drawn the attention of policy makers and researchers to understand the nursing home industry (Truffer et al., 2010). The demand for nursing home beds is growing with the aging of the population and many other factors. As the need for care grows, the nation's nursing facilities are an increasing subject of concern. The specific characteristics of the facilities, staff, and residents are of critical importance to the delivery of nursing home care.

The quality of care provided in nursing homes has long been a matter of great concern to consumers, professionals, and policy-makers. Because of the growing concern about nursing home quality, Congress requested a study by the Institute of Medicine (IOM). The IOM's Study on Nursing Home Regulation (1986) and other studies reported widespread quality of care problems and recommended the strengthening of federal regulations for nursing homes (US GAO, 1987; US Senate, 1986; Zimmerman et al., 1985). The IOM Committee recommendations and the active efforts of many consumer advocates resulted in Congress passing Nursing Home Reform Legislation (OBRA, 1987).

Major changes were made by the Health Care Financing Administration (HCFA) (now called the Centers for Medicare and Medicaid Services) (CMS) in the federal survey reports and the enforcement procedures in July 1995.

The OBRA 1987, implemented by HCFA regulations in 1990 and in 1995, mandated a number of changes. First, the regulations eliminated the priority hierarchy of conditions, standards, and elements that were in the prior regulations. Second, comprehensive assessments of all nursing home residents were mandated to determine the functional, cognitive, and affective levels of residents that must be used in the care planning process (Morris et al., 1990). Third, more specific requirements for nursing, medical and psychosocial services were designed to attain and maintain the highest possible mental and physical functional status by focusing on outcomes (such as incontinence, immobility, and decubitus ulcers). Regulations detailing and protecting residents' rights were added.

One valuable source of data on nursing facilities and the quality of care in these facilities is from the On-line Survey, Certification, and Reporting system (OSCAR). The OSCAR system has information from the state surveys of all (about

16,500) certified nursing facilities in the U.S., which are entered into a uniform, computerized database.

Purpose of the Data Book

This book presents calendar year data on nursing facilities, staffing, resident characteristics, and surveyor reports of quality deficiencies by state. These OSCAR data are from surveys collected by state agency surveyors on nursing facilities during the federal certification process during the calendar year.

The report presents a description of facility characteristics. Detailed summaries about the type of certification, bed size, occupancy, ownership, hospital-based and chain affiliations and other facility characteristics are presented.

Resident characteristics are shown as reported by the nursing facilities. These include activities of daily living (ADLs), restraints, incontinence, psychological problems, and other special care needs of residents.

Nurse staffing (RNs, LVNs, and NAs) hours per resident day are presented for nursing facilities. These data are reported by facilities for a two-week period prior to when the state survey was conducted. The data are the only major source of information for all facilities on staffing levels.

Finally, data are presented on facility deficiencies based on state surveyor

evaluations of the process and outcomes of care in the facilities.

Deficiency data are presented for the 17 major areas used in the survey process: (1) resident rights; (2) admission, transfer and discharge rights; (3) resident behavior and facility practices; (4) quality of life; (5) resident assessment; (6) quality of care; (7) nursing services; (8) dietary services; (9) physician services; (10) rehabilitation services; (11) dental services; (12) pharmacy services; (13) infection control; (14) physical environment; (15) administration; (16) laboratory services; and (17) other. The information compiled shows differences in the frequency of the deficiencies by type and category.

It should be noted that this report does not describe life safety code violations. A report by the General Accounting Office US GAO (2004) found that deaths of residents in nursing home fires pointed out the weaknesses in the federal fire safety standards and the federal oversight of nursing home fire safety is not effective.

In order to use the OSCAR data for this report, the researchers have undertaken a process to prepare the data. Certain decision rules were developed to use different components of the data. Technical issues are described in detail in the Appendix.

Earlier versions of this report included only deficiencies from the annual licensing and certification

surveys. In 2009, the report was revised to include deficiencies from both the annual surveys and complaint investigations.

Background on the Survey System and Data Collection

Every facility must have an initial survey to verify compliance with all federal regulatory requirements in order to be certified. Certified facilities are resurveyed annually in order to continue certification. States are required to survey each facility no less often than every 15 months, and the state average for all facilities is about every 12 months. Follow-up surveys may be conducted to assure that facilities correct identified deficiencies. In addition, surveys are required when there are substantial changes in a facility's organization and management. Finally, surveys may be conducted to follow-up a complaint that alleges substandard care.

OSCAR data are collected in two different ways. First, the facility characteristics, resident characteristics, and staffing levels are completed on standardized forms by individual nursing homes at the beginning of each survey and are certified by the facility as being accurate. The data are provided to the state surveyors on the appropriate forms as the state begins the survey process. During the survey, state surveyors review the data and conduct checks by comparing the facility report with individual resident medical records,

staffing records, and observations of residents. After the review of the survey data, state staff enter the data into a computerized on-line OSCAR data base from written forms.

Second, state surveyors make decisions regarding whether the facility has met or not met each standard after the facility survey has been completed. If a facility is judged to not meet a standard, the facility is given a deficiency and OSCAR reports that the standard was NOT MET.

The survey evaluations are based upon data from a combination of sources including, but not limited to, the assessment of a selected sample of individual residents; interviews with a sample of residents, family members and staff; a review of the resident records and facility documents; and other data. After these judgments are made, the state surveyors record and enter the data for each item for each facility into the on-line OSCAR data system. Thus, the determinations of deficiencies are made by state surveyors independently of the facility, with standard forms, sampling and survey procedures to ensure accuracy. Team members and state supervisors subsequently review state surveyor deficiencies. Facilities have the option to challenge and appeal decisions through an administrative review process.

Because of these checks in the system, the likelihood of false

positive deficiencies is low, and errors tend to be in under-reporting of failures to meet standards (US GAO, 1998). Thus, a note of caution is needed that under-reporting of deficiencies is more likely to be a problem than over-reporting.

CMS Procedures and State Survey Variation

CMS is the Centers for Medicare & Medicaid Services, formerly known as the Health Care Financing Administration (HCFA). CMS uses "front-end" edit screens to ensure the accuracy of the OSCAR data. State staff enter the data for each survey item into the OSCAR data set within 45 days of each survey. Some "front-end edit" checks are established in the OSCAR program for entering the data for each component of the survey to identify entry errors. This computerized edit system has resolved many data problems. Beyond this, the regional offices conduct reviews of OSCAR data from each state survey.

One concern about the OSCAR data has been with the survey procedures and the inter-survey reliability (both across states and within states) in judging the quality of facilities (IOM, 1986; US GAO 1988). This issue has been addressed in part by the implementation of the 1990 federal survey procedures. First, the procedures require accuracy checks by surveyors to determine whether facilities are conducting comprehensive assessments of residents and whether or not these

assessments are accurate and appropriately used in the care planning process. The federal regulations and survey forms have improved the sampling procedures and survey methods used by the survey teams. The federal procedures require state surveyors to use a stratified random sample of residents for in-depth reviews and to conduct face-to-face resident assessments, closed record reviews, and individual and group structured interviews. These changes were designed to improve the reliability of the survey process and the data reported on OSCAR and to make surveys more oriented toward the residents. Moreover, CMS has provided extensive new federal training for state surveyors.

In addition, the Health Care Standards and Quality Bureau of CMS, using federal survey teams from the regional offices, conducts periodic oversight surveys. In the past, Federal staff resurveyed the same facilities within 60 days of the state survey for a sample of facilities. Regional CMS offices developed a survey concurrence index for key survey components (from OSCAR) for each state. This annual concurrence index becomes a part of the federal monitoring criteria along with other components conducted by CMS. States that fall below the concurrence standards established by CMS are critiqued and monitored by CMS. Using the procedures since July 1995, federal surveyors may accompany state surveyors on a selected number of surveys to observe the surveys.

Even though CMS has made efforts to standardize the reporting of deficiencies by state survey staff, some regional variations may exist. Different states may vary their survey procedures, training efforts, and enforcement stringency (US GAO, 1998; 1999a,b,c; USOIG, 1993; 1999; 2004). A national evaluation of the certification survey processes of nursing facilities conducted by HCFA (1998) also found variations in the survey procedures. Moreover, the enforcement procedures also vary across states (Harrington et al., 1999; 2004; 2009). In spite of the improvements that have been made, the IOM (2001) recommended that there was a need to improve both the state survey process and the enforcement system and made specific recommendations for improvements.

Many studies continue to document the serious quality problems related to the ongoing problems with the federal and state survey and enforcement system including the complaint investigation process (U.S. Government Accountability Office [GAO], 2007, 2009, 2009).

Staff turnover and recruitment problems and fiscal problems at the state agency level may hamper survey and enforcement efforts (USOIG, 1993; US GAO, 2000; 2004; Walshe and Harrington, 2002; Harrington and Swan, 2004; US CMS 2001).

Users of this report should consider that it is difficult to distinguish between real differences in the quality of care in facilities and differences in survey and enforcement procedures across states. It is hoped that this report will be useful to consumers, nursing facilities, researchers, and policy makers to understand trends over time and across states.

FACILITY CHARACTERISTICS

Background

Facility characteristics are important. The most important feature of a facility is the number of beds that are certified for Medicare and Medicaid residents. The size of the facility determines the number of residents who can be admitted.

Occupancy rates are important in showing the potential availability of beds and such occupancy rates influence the financial status of the facility. Occupancy rates have begun to decline so there is some evidence of an excess supply of nursing home beds in many areas (Grabowski and Angelelli, 2004).

The percentage of Medicare and Medicaid patients in a facility is an important factor. Nursing homes have historically considered Medicaid reimbursement rates to be low and prefer private pay patients (Swan et al., 2000; 2001a,b). Higher Medicaid reimbursement rates have been associated with higher staffing and higher quality (Grabowski, 2001).

One of the major debates in research circles is whether the proprietary nature of the nursing home industry affects process and outcomes in terms of quality of care. A review of the research studies regarding ownership and quality shows a for-profit facilities generally have been reported to have lower overall quality of care but some

studies have had mixed results (Comondore et al. 2009). Harrington et al. (2000a, b) showed higher deficiencies in for-profit facilities than non-profit and government facilities. Thus, proprietary ownership and chains may be associated with lower staffing levels and poorer process and outcome measures.

Hospital-based nursing homes may have higher quality of care because they have more Medicare patients, have higher staffing levels, and/or are more likely to be non-profit in ownership (Harrington et al., 2000a,b).

Having accreditation may be positively associated with higher staffing levels and with higher quality of care. The existence of dedicated special care units, such as those for persons with Alzheimer's disease, may also be associated with higher quality of care because of higher staffing levels.

Large size facilities have been associated with lower quality although findings are mixed (Harrington et al., 2000a,b). Larger facilities tend to have lower staffing and perhaps have more difficulty in managing the quality of care.

Those facilities with organized residents groups or organized family groups may have higher quality of care. Facilities with the capacity to

conduct research may also be expected to have higher quality of care.

The following section presents data from OSCAR to describe certified nursing facilities in the U.S.: beds by certification types (Medicare, Medicaid, or both), occupancy rate (number of residents divided by total

number of beds), ownership (non-profit religious, non-profit private, non-profit other, proprietary, or government), owned or leased by a multi-facility organization (chain), and hospital-based facility (yes or no). The number of beds in special care units, organized resident group, and organized family member group were also reported.

FINDINGS

FACILITY CHARACTERISTICS

Total Number of Certified Nursing Facilities Surveyed by Calendar Year

Table 1 shows the total number of certified nursing facilities surveyed in the U.S. by calendar year. There were 14,942 certified nursing facilities surveyed in 2005 and 15,622 surveyed in 2010 out of approximately 16,000 certified facilities in the U.S. Not all facilities are surveyed by state agencies during a calendar year.

TABLE 1
TOTAL NUMBER OF CERTIFIED NURSING FACILITIES IN THE U.S.
BY CALENDAR YEAR

State	2005	2006	2007	2008	2009	2010
AK	15	13	15	14	15	15
AL	163	169	161	212	230	228
AR	235	236	237	236	231	243
AZ	87	132	124	131	135	138
CA	1,228	1,189	1,197	1,240	1,226	1,229
CO	203	202	209	205	212	211
CT	227	237	233	231	241	234
DC	20	20	18	19	19	18
DE	41	42	44	45	48	37
FL	626	671	657	671	673	683
GA	338	351	346	358	355	338
HI	39	46	41	45	48	41
IA	435	435	430	444	445	442
ID	71	74	70	79	79	79
IL	749	764	787	777	789	784
IN	468	497	502	506	495	509
KS	349	347	331	345	337	339
KY	295	291	288	286	282	284
LA	272	274	282	285	286	282
MA	432	452	428	415	431	429
MD	228	225	216	227	230	216
ME	106	110	108	110	107	108
MI	407	411	421	415	426	429
MN	356	374	378	381	387	386
MO	491	506	502	513	515	512
MS	198	202	200	193	203	202
MT	88	85	85	91	87	86
NC	403	420	414	416	427	423
ND	78	81	80	81	84	86
NE	215	221	208	215	226	222
NH	76	76	81	74	80	80
NJ	341	350	354	357	358	362
NM	68	70	70	69	71	70
NV	46	47	48	47	50	50
NY	635	641	638	640	636	634
OH	864	928	918	950	962	963
OK	345	327	316	325	322	319
OR	124	133	134	136	137	138
PA	702	709	711	700	715	712
RI	84	87	85	84	82	85
SC	162	167	169	171	179	185
SD	107	107	106	100	110	111
TN	308	316	315	317	314	320
TX	1,074	1,106	1,149	1,153	1,174	1,191
UT	81	90	84	96	97	95
VA	248	268	268	283	281	287
VT	36	40	38	40	39	40
WA	243	237	238	237	234	231
WI	379	374	388	396	383	394
WV	120	109	121	131	127	84
WY	36	35	38	39	38	38
US	14,942	15,294	15,281	15,531	15,658	15,622

Total Number of Certified Nursing Facility Beds Surveyed by Calendar Year

Table 2 shows the number of certified nursing facility beds in the U.S. surveyed during the calendar year and it excludes uncertified beds. There were 1,567,024 nursing facility beds surveyed in 2005, and 1,663,445 in 2010.

TABLE 2
TOTAL NUMBER OF CERTIFIED NURSING FACILITY BEDS IN THE
U.S.
BY CALENDAR YEAR

State	2005	2006	2007	2008	2009	2010
AK	705	411	725	698	716	682
AL	17,775	20,040	17,763	24,885	26,725	26,662
AR	24,109	24,470	24,531	24,584	24,472	25,330
AZ	11,018	15,462	14,487	15,406	15,375	16,083
CA	116,339	113,527	115,158	120,359	118,549	119,826
CO	19,060	18,876	19,759	19,343	19,947	20,162
CT	27,513	28,863	28,241	28,511	28,955	28,465
DC	3,030	2,988	2,597	2,765	2,715	2,408
DE	4,235	4,276	4,605	4,807	5,018	4,168
FL	74,290	80,503	79,330	81,181	81,327	82,423
GA	37,734	38,631	38,350	39,762	39,414	37,366
HI	3,126	4,032	3,617	4,050	4,163	3,184
IA	32,023	31,454	30,118	31,897	31,982	31,580
ID	5,522	5,748	5,463	6,154	6,159	6,153
IL	90,507	93,331	95,879	94,406	95,660	95,593
IN	43,666	47,466	47,977	48,951	47,973	49,259
KS	23,113	22,801	21,969	23,022	22,575	22,760
KY	25,969	25,545	25,317	25,490	25,534	25,946
LA	33,737	34,425	34,845	34,803	35,863	35,081
MA	46,901	49,482	47,088	45,959	48,469	48,484
MD	27,953	28,241	26,622	28,508	28,595	26,886
ME	6,978	7,163	6,950	7,174	6,720	7,105
MI	45,115	45,114	46,141	45,491	46,646	47,170
MN	31,903	33,415	32,763	32,830	32,728	32,081
MO	47,990	49,474	49,504	51,382	52,469	52,334
MS	17,645	18,288	18,206	17,697	18,476	18,510
MT	6,659	6,199	6,616	7,029	6,964	6,952
NC	41,103	42,895	43,067	42,367	43,959	43,648
ND	6,285	6,351	6,272	6,228	6,334	6,491
NE	14,931	15,656	14,605	15,432	15,952	15,674
NH	7,277	7,054	7,708	6,903	7,742	7,742
NJ	47,966	49,641	49,685	50,729	50,812	51,219
NM	6,232	6,621	6,540	6,628	6,827	6,707
NV	5,200	5,554	5,643	5,597	5,755	5,862
NY	118,220	118,987	117,992	117,905	118,202	118,057
OH	80,977	88,619	88,667	92,131	92,789	92,820
OK	30,620	29,314	28,224	29,839	29,247	29,428
OR	11,454	11,972	12,148	12,317	12,316	12,293
PA	86,224	87,316	87,300	87,132	88,846	88,896
RI	8,445	8,914	8,581	8,644	8,463	8,694
SC	16,759	16,978	17,404	18,027	18,555	18,814
SD	6,465	6,547	6,390	5,943	7,117	6,936
TN	34,959	36,149	35,469	36,276	36,331	37,422
TX	111,407	116,163	122,018	123,367	126,684	129,030
UT	6,441	7,334	6,978	7,981	8,076	7,661
VA	27,708	29,995	29,786	31,423	31,579	32,090
VT	3,118	3,381	3,221	3,293	3,209	3,276
WA	22,189	21,544	21,744	22,242	21,773	21,900
WI	36,080	35,765	36,885	37,215	35,470	36,005
WV	9,577	8,941	10,022	10,852	10,758	7,162
WY	2,772	2,855	2,972	2,993	2,974	2,965
US	1,567,024	1,614,771	1,613,942	1,648,608	1,663,959	1,663,445

Average Number of Certified Beds per Nursing Facility

The number of certified nursing beds per facility is calculated by dividing the total number of certified beds in a state by the total number of certified facilities in the state. Table 3 shows the overall average size was 107.10 beds in 2005 and the average increased to 108.41 beds per facility in 2010.

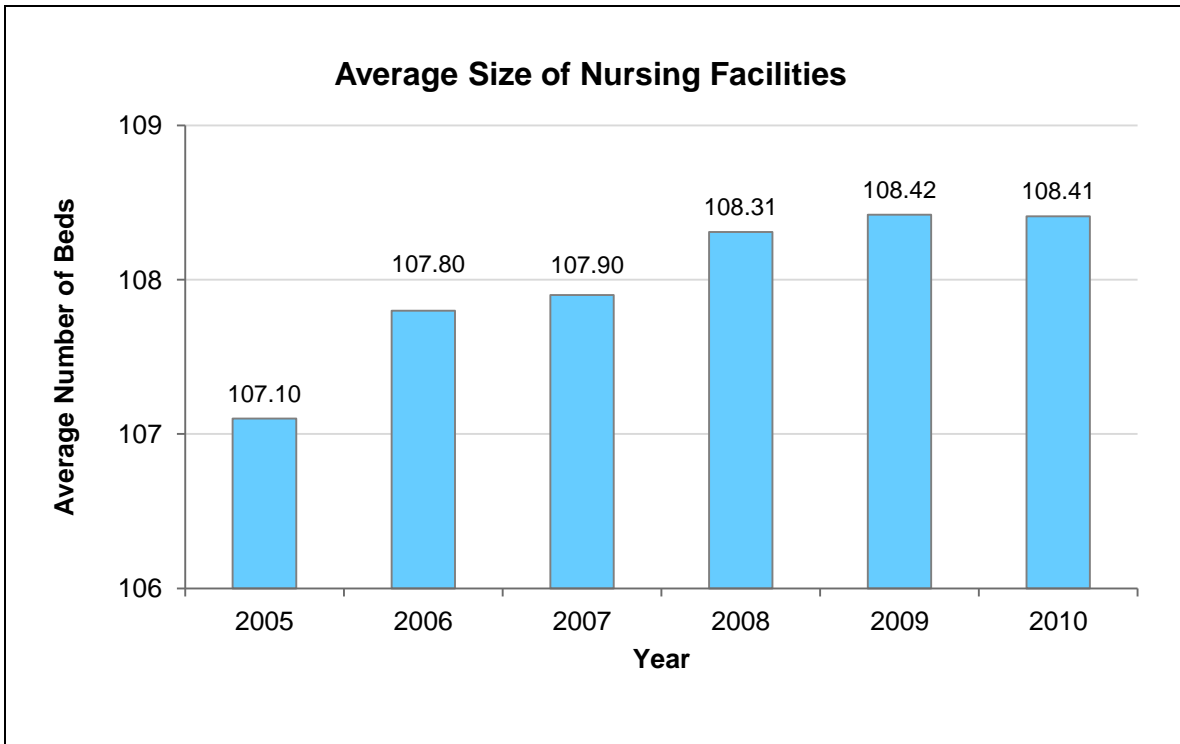


TABLE 3
AVERAGE NUMBER OF CERTIFIED NURSING FACILITY BEDS IN THE U.S.
BY CALENDAR YEAR

State	2005	2006	2007	2008	2009	2010
AK	48.30	31.60	48.30	49.86	47.73	45.47
AL	110.20	118.60	110.60	117.38	116.43	116.94
AR	103.00	104.00	104.10	104.28	106.06	104.45
AZ	127.30	119.90	117.50	120.54	119.07	117.90
CA	95.80	96.40	97.60	97.52	96.92	97.71
CO	94.00	93.70	94.60	94.38	94.16	95.55
CT	122.10	122.70	122.00	125.02	121.77	121.80
DC	151.50	149.40	144.30	145.53	146.05	133.78
DE	112.80	108.30	106.50	108.58	106.19	112.65
FL	119.80	121.10	124.10	121.59	121.19	121.16
GA	111.80	110.20	110.90	111.07	111.25	110.87
HI	83.00	89.70	90.60	92.24	88.94	80.78
IA	75.00	74.00	71.40	73.38	73.34	72.60
ID	77.80	77.70	78.00	77.90	77.96	77.89
IL	127.40	129.30	128.50	128.84	128.35	127.86
IN	108.90	111.50	112.50	113.23	113.62	113.67
KS	73.10	73.10	75.00	74.66	75.16	75.49
KY	89.30	89.10	89.00	89.85	91.23	91.80
LA	125.40	127.30	125.20	124.73	127.77	127.27
MA	110.20	111.00	111.60	112.38	114.05	114.73
MD	122.80	125.50	123.70	126.86	125.89	125.71
ME	66.10	65.40	64.70	65.48	63.07	65.83
MI	113.70	111.90	110.90	113.14	109.89	110.34
MN	90.10	89.90	87.20	86.72	84.96	83.42
MO	104.50	104.60	104.80	106.19	107.19	107.63
MS	89.20	90.50	91.00	91.73	91.04	91.66
MT	75.70	73.00	77.90	77.24	80.05	80.84
NC	103.00	103.30	105.20	103.48	104.01	104.88
ND	80.60	78.40	78.40	76.89	75.40	75.48
NE	71.30	72.60	71.10	72.72	71.81	71.93
NH	96.30	93.00	95.30	93.28	96.78	96.78
NJ	140.80	142.70	140.40	142.10	141.93	141.79
NM	92.60	95.40	95.30	96.06	96.15	95.84
NV	114.80	119.50	118.20	120.40	116.78	118.92
NY	186.20	185.70	185.10	185.03	190.19	186.29
OH	95.50	96.30	97.10	97.36	96.82	96.53
OK	90.20	90.60	90.90	92.18	91.95	92.52
OR	92.50	90.10	90.70	90.57	89.91	89.25
PA	123.00	123.30	122.80	124.50	124.26	124.88
RI	100.60	102.70	101.20	103.12	103.43	102.49
SC	106.30	104.50	105.90	108.29	106.86	104.89
SD	60.40	61.20	60.30	61.14	66.71	67.57
TN	114.40	115.70	113.50	116.15	116.79	117.96
TX	108.10	108.80	109.60	110.14	110.87	111.57
UT	80.00	82.00	83.30	83.49	83.64	81.27
VA	113.90	114.50	113.40	112.40	113.42	112.95
VT	86.60	84.60	85.90	82.33	82.28	81.90
WA	91.60	91.10	91.80	94.35	93.51	95.19
WI	95.20	95.60	95.10	93.99	92.70	91.50
WV	80.00	82.00	83.10	83.25	85.24	85.81
WY	77.00	81.60	78.20	76.74	78.26	78.03
US	107.10	107.80	107.90	108.31	108.42	108.41

Number of Nursing Facility Residents

Table 4 reports the total number of nursing facility residents in certified nursing facilities surveyed in each state during a calendar year. There were 1,385,251 residents in certified nursing facilities that were surveyed in 2010. These data exclude residents in uncertified beds. The data generally show a slight increase in the number of residents in certified beds between 2005 and 2010.

Average Occupancy Rates

Table 4 shows that the average certified nursing facility occupancy rate for the U.S. was 85.50 percent in 2005. Facility occupancy rates are calculated by dividing the number of nursing residents in a certified facility by the total number of certified beds (excluding all uncertified residents and beds). The occupancy rates declined to 83.28 percent in 2010.

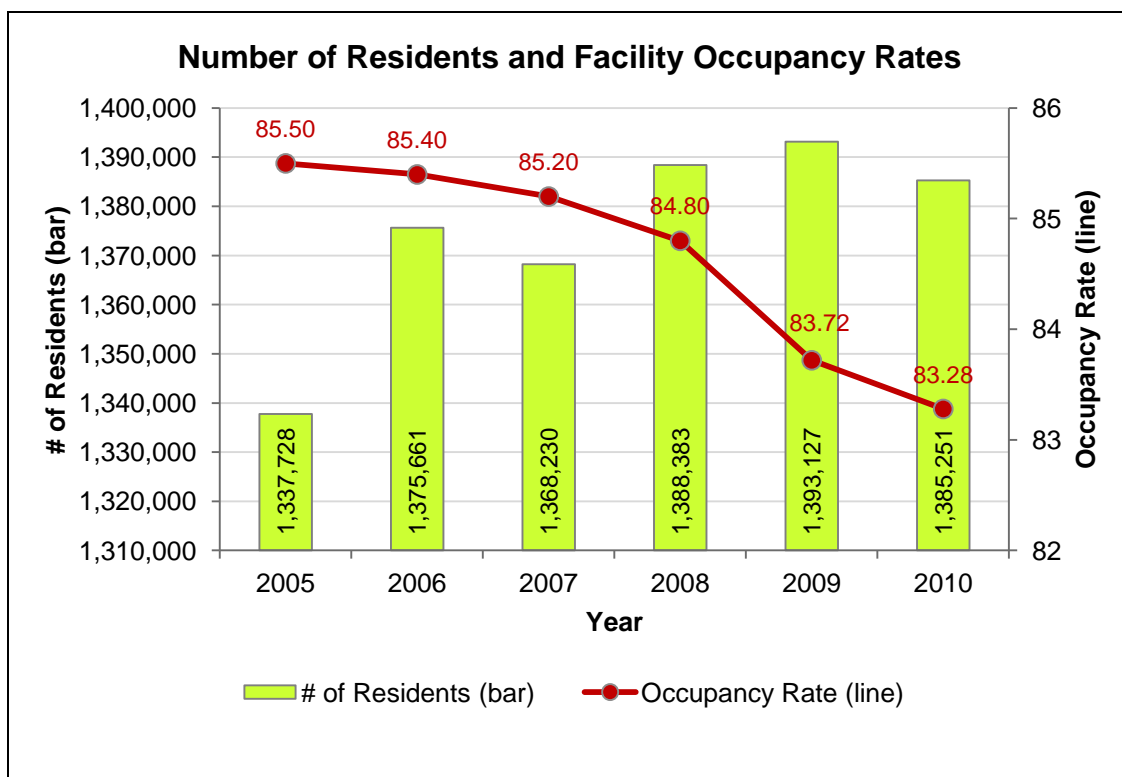


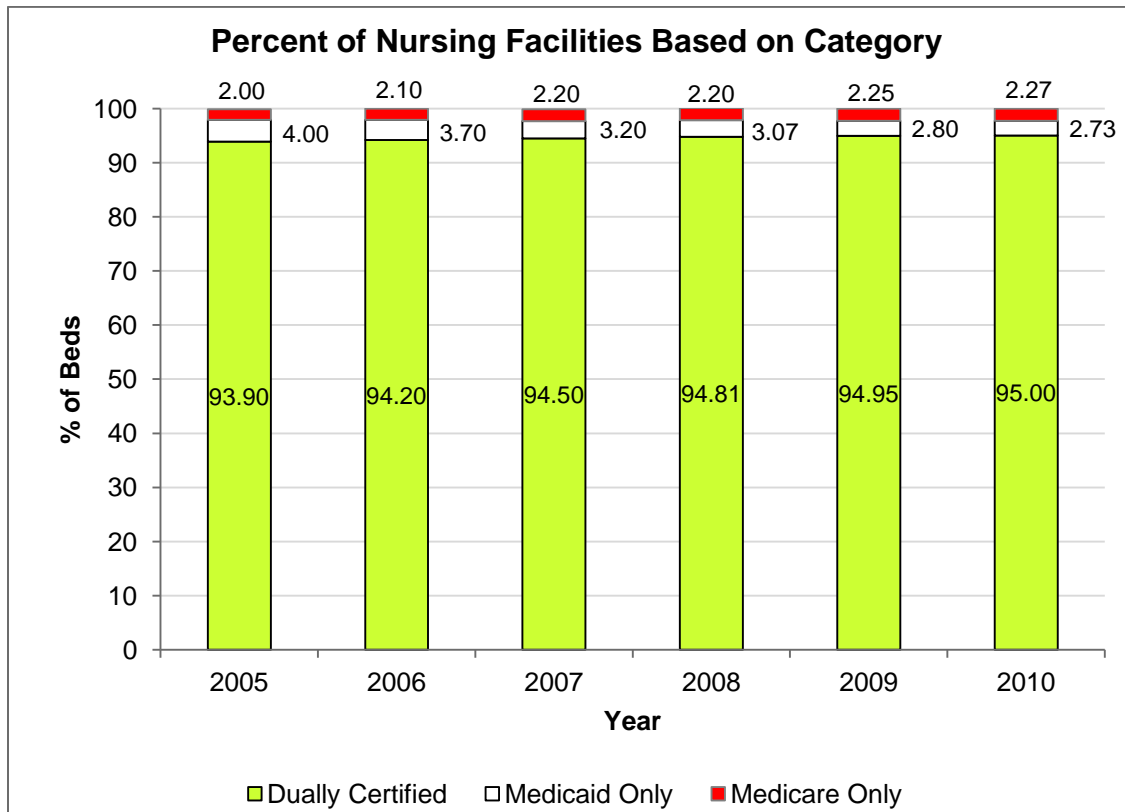
TABLE 4
TOTAL NUMBER OF RESIDENTS AND FACILITY OCCUPANCY RATES
FOR CERTIFIED NURSING FACILITIES

State	Number of Residents						Facility Occupancy					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	627	341	619	605	625	640	83.90	86.50	83.00	85.40	87.29	93.84
AL	15,678	17,677	15,547	21,492	23,202	22,920	88.90	87.30	88.20	87.50	86.82	85.97
AR	17,305	17,780	17,879	17,889	17,822	18,557	73.00	71.50	72.70	72.90	72.83	73.26
AZ	8,618	12,077	11,224	11,877	11,788	11,622	78.50	77.80	78.10	77.50	76.67	72.26
CA	100,268	97,180	97,530	101,792	100,578	101,854	84.30	85.20	85.60	84.70	84.84	85.00
CO	15,852	15,685	16,516	15,913	16,358	16,128	81.40	83.10	83.10	83.60	82.01	79.99
CT	25,571	26,566	25,991	25,826	26,139	25,578	91.30	92.20	92.00	92.00	90.27	89.86
DC	2,804	2,756	2,464	2,439	2,519	2,224	90.50	92.50	92.20	94.90	92.78	92.36
DE	3,799	3,677	3,908	4,111	4,245	3,592	81.30	82.20	86.00	84.90	84.60	86.18
FL	66,209	71,434	69,978	71,481	71,373	72,220	87.90	88.30	88.70	88.20	87.76	87.62
GA	33,907	34,601	33,982	34,838	34,516	32,286	88.90	89.70	89.60	88.60	87.57	86.40
HI	2,958	3,845	3,439	3,799	3,871	2,919	90.60	91.40	95.40	95.10	92.99	91.68
IA	26,057	25,609	24,388	25,772	25,676	25,200	78.70	79.80	81.40	81.00	80.28	79.80
ID	4,183	4,297	4,142	4,537	4,422	4,358	75.40	75.80	74.80	75.80	71.80	70.83
IL	72,298	73,767	76,065	74,557	75,218	74,721	75.60	75.80	79.00	79.30	78.63	78.17
IN	36,499	38,437	39,015	39,446	38,778	39,230	72.50	71.60	81.00	81.30	80.83	79.64
KS	19,684	19,454	18,558	19,198	18,786	18,781	77.50	77.10	85.30	84.50	83.22	82.52
KY	23,253	23,068	22,936	23,179	22,990	23,370	86.70	88.30	90.30	90.60	90.04	90.07
LA	25,569	25,698	25,787	25,283	25,617	25,490	74.00	75.00	74.60	74.00	71.43	72.66
MA	42,127	44,532	42,434	40,971	43,201	42,848	88.40	88.50	90.00	90.10	89.13	88.38
MD	24,164	24,712	23,092	24,873	24,951	23,347	85.30	86.30	87.50	86.70	87.26	86.84
ME	6,380	6,545	6,349	6,541	6,164	6,390	91.70	91.10	91.40	91.40	91.73	89.94
MI	39,880	39,859	39,963	39,093	39,743	39,917	85.30	86.20	88.40	86.60	85.20	84.62
MN	29,526	30,867	30,264	30,196	29,871	29,023	91.50	92.00	92.40	92.40	91.27	90.47
MO	35,684	36,942	36,696	37,254	37,886	37,643	68.80	69.60	74.70	74.10	72.21	71.93
MS	15,490	16,049	16,299	15,547	16,493	16,367	88.80	87.70	87.80	89.50	89.27	88.42
MT	4,883	4,599	4,745	5,128	4,950	4,891	73.90	73.30	74.20	71.70	71.08	70.35
NC	36,330	37,812	37,768	37,081	37,612	37,373	87.60	87.50	88.20	87.70	85.56	85.62
ND	5,768	5,830	5,774	5,680	5,679	5,689	92.90	91.80	91.80	92.10	89.66	87.64
NE	12,480	13,045	11,966	12,332	12,670	12,609	81.90	81.40	83.30	81.90	79.43	80.45
NH	6,597	6,338	6,923	6,126	6,928	6,920	90.30	90.10	89.80	89.80	89.49	89.38
NJ	42,075	44,110	44,459	45,423	45,610	45,766	88.00	87.60	88.90	89.50	89.76	89.35
NM	5,494	5,764	5,776	5,558	5,570	5,564	86.70	87.30	87.10	88.30	81.59	82.96
NV	4,261	4,673	4,737	4,693	4,761	4,740	84.00	80.70	84.10	83.90	82.73	80.86
NY	109,543	110,139	108,749	109,257	109,218	108,847	93.30	92.60	92.60	92.20	92.40	92.20
OH	71,174	77,848	77,751	79,992	79,689	79,188	75.40	86.20	87.80	87.70	85.88	85.31
OK	20,580	19,356	18,574	19,616	19,536	19,501	64.80	66.10	66.00	65.80	66.80	66.27
OR	7,424	7,767	7,937	7,910	7,688	7,567	64.90	64.70	64.90	65.30	62.42	61.56
PA	77,679	79,878	79,422	78,982	80,679	80,858	90.50	90.00	91.50	91.00	90.81	90.96
RI	7,804	8,302	7,908	7,739	7,725	7,882	93.20	92.30	93.10	92.20	91.28	90.66
SC	15,487	15,790	16,181	16,631	16,946	17,115	88.90	89.90	93.00	93.00	91.33	90.97
SD	6,360	6,542	6,361	5,944	6,511	6,544	92.70	98.40	99.90	99.50	91.49	94.35
TN	30,881	31,830	31,026	31,849	31,357	32,060	88.30	87.60	88.10	87.50	86.31	85.67
TX	84,104	86,442	89,698	90,216	90,448	91,717	73.00	72.40	74.40	73.50	71.40	71.08
UT	4,615	5,149	4,916	5,421	5,236	4,933	68.80	71.20	70.20	70.40	64.83	64.39
VA	25,065	27,298	26,979	28,243	28,152	28,429	88.10	88.70	91.00	90.60	89.15	88.59
VT	2,855	3,061	2,981	3,031	2,885	2,899	93.90	91.60	90.50	92.50	89.90	88.49
WA	19,104	18,672	18,824	18,618	18,085	18,095	85.50	85.80	86.70	86.60	83.06	82.63
WI	31,891	31,612	32,323	32,254	30,441	30,194	88.60	88.40	88.40	87.60	85.82	83.86
WV	8,679	8,014	9,031	9,732	9,542	6,220	88.00	90.40	89.60	90.10	88.70	86.85
WY	2,205	2,335	2,356	2,418	2,377	2,425	81.20	79.50	81.80	79.30	79.93	81.79
US	1,337,728	1,375,661	1,368,230	1,388,383	1,393,127	1,385,251	85.50	85.40	85.20	84.80	83.72	83.28

Facility Beds by Certification Category

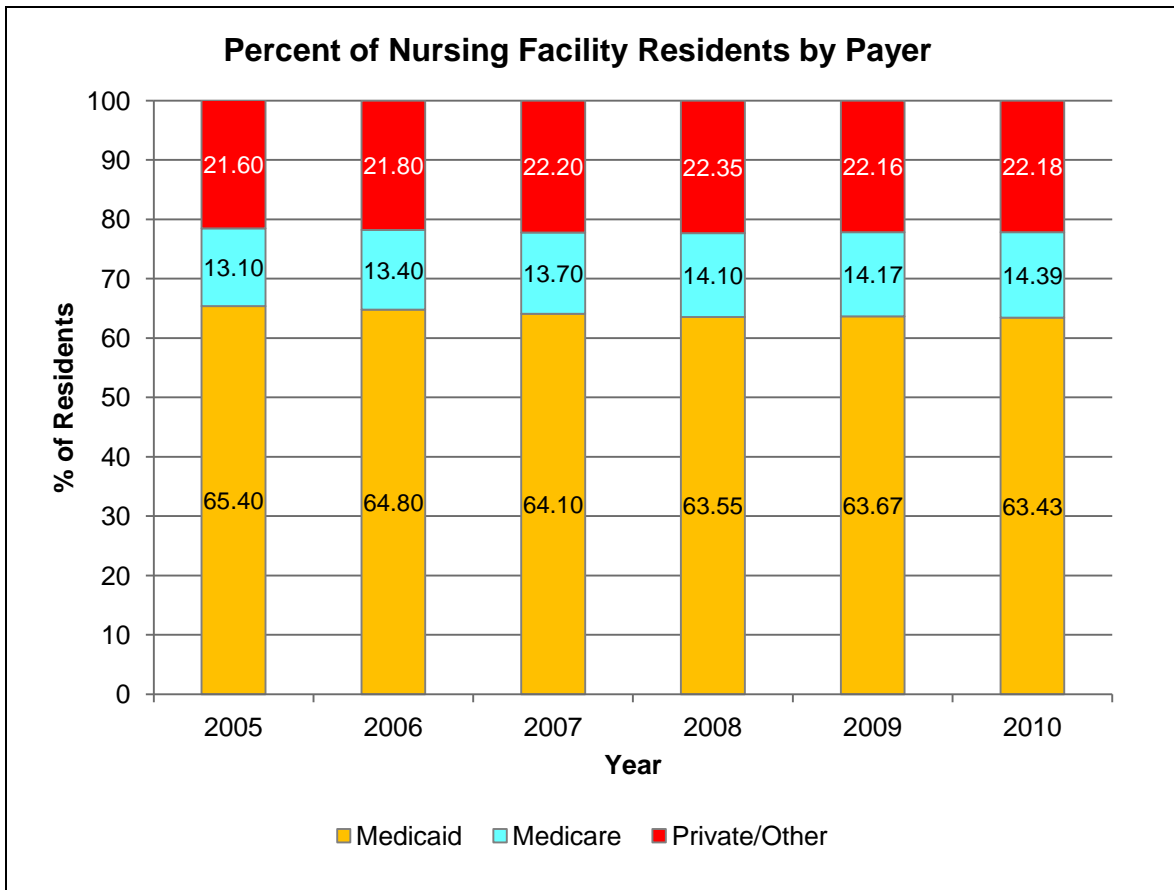
Licensed nursing facilities may apply to be certified for participation in the Medicare and/or Medicaid program on a voluntary basis. Facilities may apply to participate in: (1) the Medicaid only (Title 19) program, (2) the Medicare only (Title 18) program, or (3) in the Medicare/Medicaid dually certified (Title 18 and 19) program. Since 1991, the Medicare program classified facilities as skilled nursing facilities (SNFs) while the Medicaid-certified facilities are designated as "nursing facilities" (NFs). Certification requirements are detailed in the federal regulations 42 CFR 483. Federal Medicare certification allows for all or part of a facility to be certified.

Table 5 shows the percent of certified nursing facility beds for each program. The number of beds certified for Medicare-only was 2.00 percent and 2.27 percent of the total beds in both 2005 and 2010, respectively. Medicaid-only certified beds declined from 4.00 percent in 2005 to 2.73 percent in 2010. Dually certified beds increased to make up the difference.



Residents by Payer Source

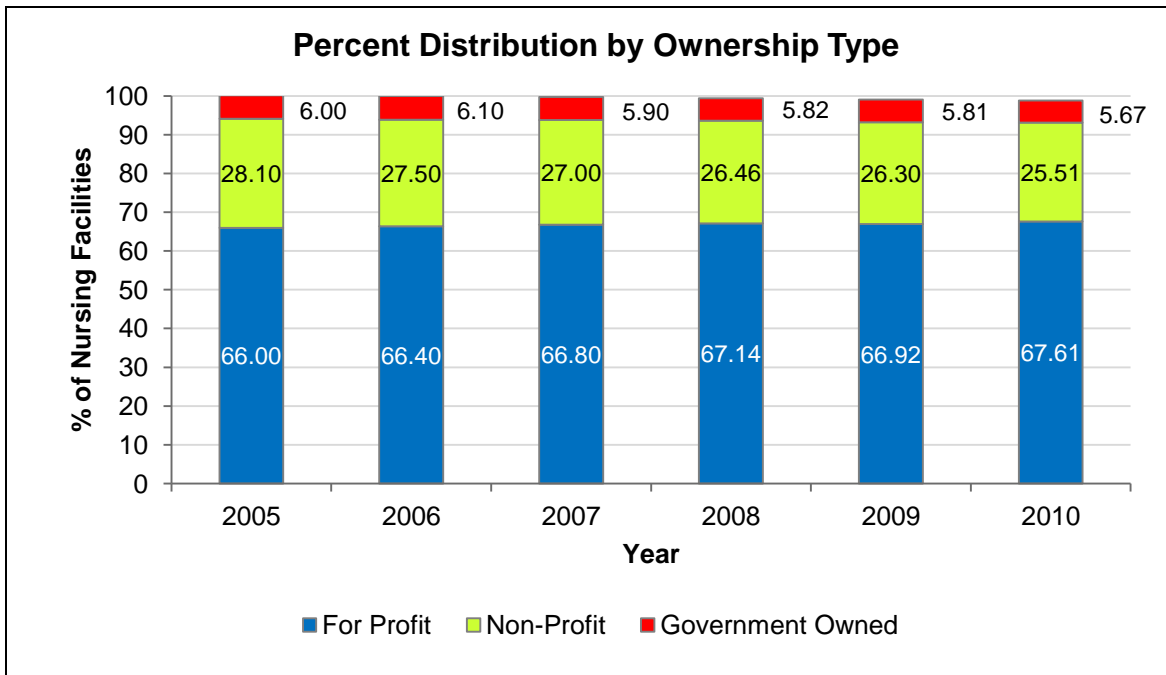
The percent of certified nursing facility residents by primary payer source is shown in Table 6. The percentage of total residents primarily paid for by Medicaid declined from 65.40 to 63.43 percent of the total residents in the 2005-2010 period. Medicare paid for 14.39 percent of the total residents in 2010, increasing from 13.10 percent in 2005. Private payers and other sources have remained the same (21.60 percent in 2005 and 22.18 percent in 2010). Even though most nursing facility beds are dually certified for either Medicare or Medicaid residents, the care for most residents is paid for by Medicaid.



Distribution of Facilities by Ownership Type

Nursing facility ownership patterns show that the large majority of nursing facilities were proprietary in the 2005-2010 period. Table 7 shows that 67.61 percent of the surveyed facilities were for-profit facilities while non-profit facilities were 25.51 percent and government owned facilities were 5.67 percent in 2010. For profit homes increased slightly while non-profit and government facilities had declined since 2005.

Ownership patterns vary widely across states. Wyoming and Alaska have a high percentage of government owned facilities. North Dakota, South Dakota, and Minnesota have a high percentage of non-profit facilities. Oklahoma, Texas, Arkansas, Utah, and Oregon have the highest percentages of proprietary facilities.



Facilities by Affiliation

Table 8 shows the percent of facilities that were owned or leased by multi-facility organizations (chains that have two or more facilities). The percentage that were owned or leased by chains was 52.10 percent in 2005 and increased to 54.71 percent in 2010 (5 percent increase).

Table 8 shows that certified hospital-based facilities that were surveyed decreased from 8.80 percent in 2005 declined to 6.45 percent of all facilities in 2010 (26.70 percent change). These declines occurred after the introduction of the Medicare prospective payment system for nursing facilities in 1998.

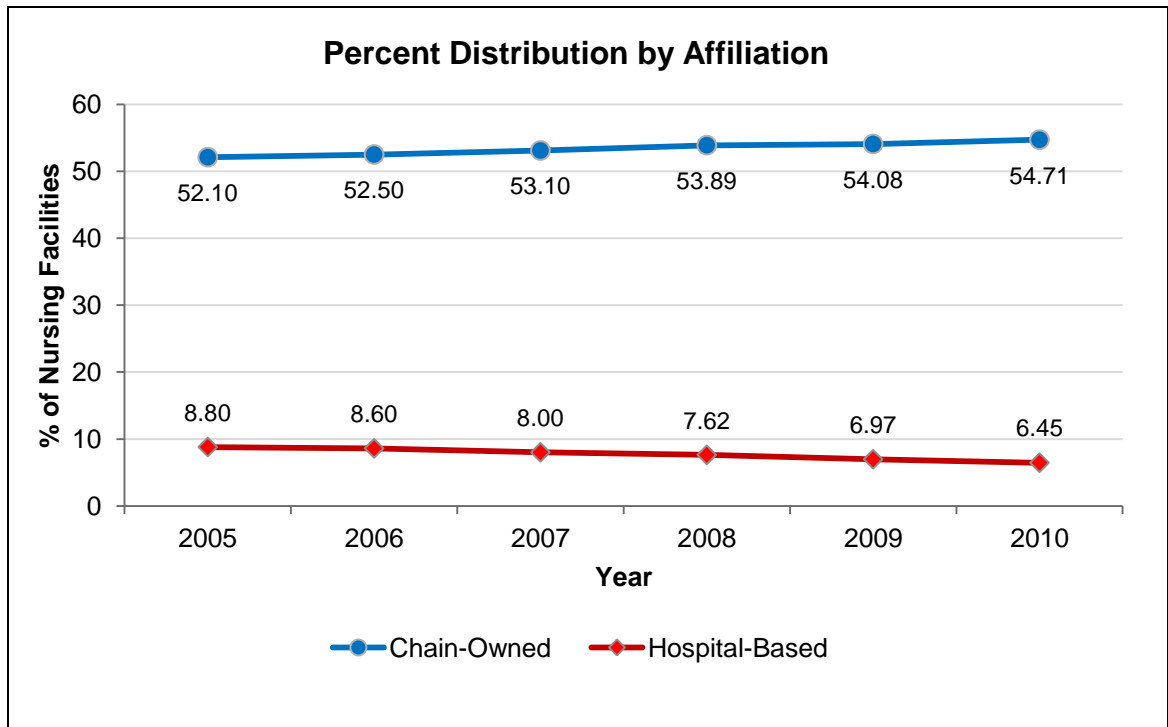


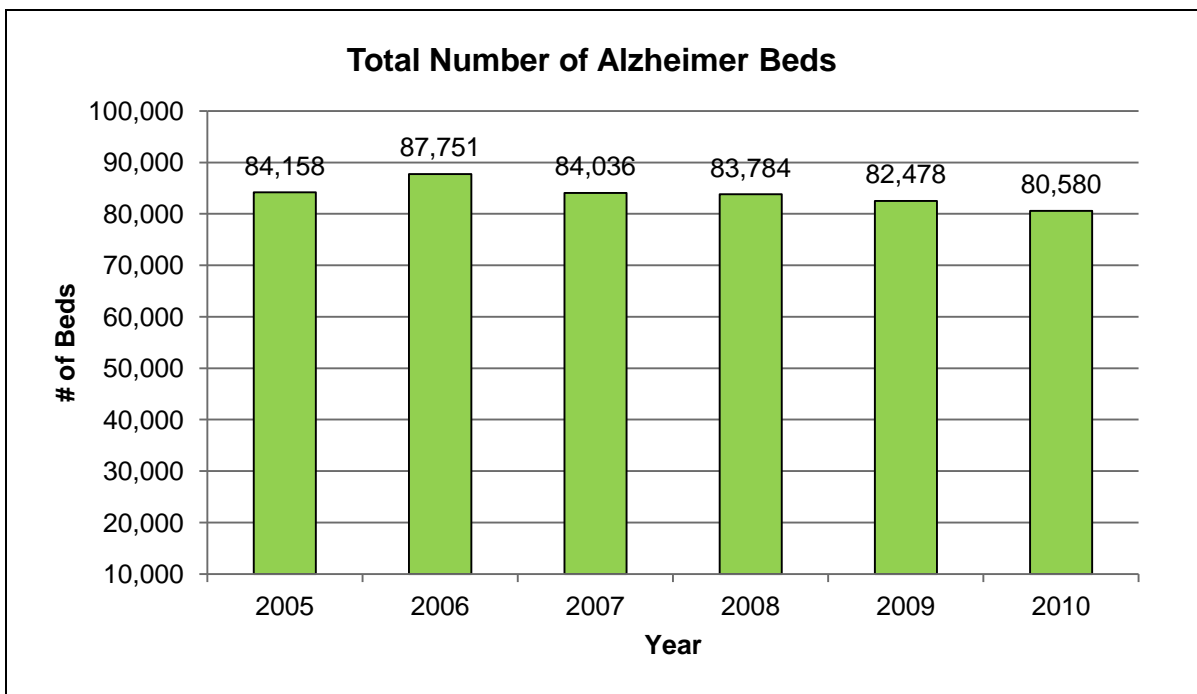
TABLE 8
PERCENT DISTRIBUTION OF CERTIFIED NURSING FACILITIES BY AFFILIATION IN THE U.S.

State	Chain-Owned						Hospital-Based					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	40.00	23.10	33.30	28.57	33.33	33.33	53.30	69.20	73.30	71.43	73.33	80.00
AL	57.70	55.00	64.60	61.79	61.30	62.72	5.50	7.10	7.50	7.08	5.22	5.70
AR	49.40	47.00	50.60	50.85	64.50	72.02	6.80	7.20	6.80	5.93	4.76	4.12
AZ	57.50	56.80	59.70	59.54	58.52	55.07	2.30	3.80	2.40	2.29	2.22	2.17
CA	52.40	53.50	52.00	51.45	51.79	51.18	12.30	12.40	10.90	11.37	9.95	9.52
CO	59.60	59.90	58.90	61.46	63.21	63.51	8.40	8.90	7.70	6.83	7.08	5.69
CT	46.70	45.60	47.20	48.92	47.72	50.00	1.30	1.70	1.70	1.30	1.24	1.71
DC	15.00	15.00	22.20	21.05	15.79	16.67	25.00	25.00	22.20	26.32	21.05	27.78
DE	56.10	59.50	54.50	51.11	45.83	56.76	7.30	7.10	9.10	2.22	4.17	2.70
FL	53.00	54.10	56.80	55.59	53.94	57.83	4.00	2.50	2.10	2.09	1.34	1.61
GA	74.00	71.80	72.50	70.95	74.93	75.74	15.40	15.40	14.50	14.25	14.08	14.20
HI	46.20	56.50	51.20	55.56	60.42	53.66	38.50	39.10	39.00	35.56	35.42	34.15
IA	52.90	52.20	50.00	51.80	52.13	52.49	9.70	10.30	10.50	9.23	7.87	7.24
ID	63.40	58.10	61.40	62.03	64.56	60.76	25.40	24.30	18.60	21.52	21.52	20.25
IL	45.90	47.90	47.90	49.03	48.42	48.85	8.30	7.70	7.50	6.69	6.46	6.12
IN	64.50	63.00	64.10	68.18	67.88	69.35	6.40	6.20	5.00	3.95	3.03	2.55
KS	51.30	51.60	51.10	49.57	48.96	49.56	13.80	13.50	13.30	13.04	12.17	12.39
KY	61.40	63.60	60.80	65.03	66.31	60.92	12.20	11.70	10.40	10.14	9.57	9.15
LA	43.80	46.40	49.60	50.88	51.40	51.06	7.40	6.90	7.10	5.96	5.94	5.32
MA	50.20	52.70	53.00	51.08	54.52	54.08	4.90	4.90	3.50	3.37	1.86	2.10
MD	53.10	53.30	54.20	56.39	57.39	56.02	7.00	7.60	7.90	5.29	4.78	4.17
ME	50.90	53.60	52.80	56.36	59.81	60.19	6.60	8.20	8.30	7.27	6.54	7.41
MI	52.10	52.30	52.50	53.98	52.35	55.48	3.70	4.90	6.40	5.78	6.10	6.29
MN	51.70	51.10	50.30	51.97	50.13	51.81	14.00	14.40	13.50	13.39	13.44	12.69
MO	49.30	47.80	50.80	52.24	50.10	52.54	5.90	5.90	5.40	4.68	3.11	1.95
MS	47.50	42.10	44.50	44.56	46.31	46.53	13.60	12.90	12.00	11.40	10.84	8.91
MT	35.20	34.10	41.20	36.26	34.48	31.40	39.80	36.50	35.30	35.16	29.89	29.07
NC	68.70	67.60	68.80	69.71	70.02	69.03	10.40	9.50	8.50	8.65	8.90	7.80
ND	46.20	44.40	45.00	43.21	44.05	45.35	19.20	21.00	18.80	19.75	17.86	16.28
NE	50.70	45.70	44.70	51.63	52.65	53.15	11.60	11.30	10.10	10.23	10.18	7.21
NH	48.70	50.00	50.60	52.70	52.50	48.75	6.60	5.30	6.20	5.41	5.00	3.75
NJ	37.50	34.90	33.60	35.01	35.20	35.08	4.40	4.30	4.00	4.48	4.75	4.42
NM	66.20	70.00	62.90	57.97	64.79	62.86	10.30	7.10	2.90	5.80	5.63	5.71
NV	58.70	61.70	62.50	61.70	62.00	66.00	21.70	21.30	18.80	12.77	20.00	14.00
NY	12.10	13.10	12.50	13.28	13.36	13.56	10.10	10.30	10.30	10.47	10.38	9.62
OH	58.40	58.50	61.10	60.53	59.77	62.20	5.00	5.10	4.20	4.00	3.22	2.70
OK	32.80	30.30	32.00	34.77	30.75	30.41	4.90	4.90	4.40	3.69	3.42	3.45
OR	68.50	68.40	69.40	73.53	71.53	71.01	3.20	3.80	3.70	4.41	3.65	2.90
PA	52.00	53.20	53.20	53.71	55.66	56.32	9.00	8.70	8.60	8.14	6.85	6.88
RI	26.20	28.70	31.80	32.14	30.49	32.94	2.40	1.10	1.20	0.00	0.00	0.00
SC	67.90	71.30	71.00	71.35	70.39	72.97	9.30	11.40	10.10	8.19	7.26	8.11
SD	56.10	57.00	56.60	62.00	60.00	59.46	15.90	15.00	15.10	14.00	12.73	13.51
TN	63.60	63.00	61.90	63.09	63.69	65.94	9.70	9.20	7.90	7.57	6.69	5.94
TX	62.50	63.30	65.00	64.87	62.52	62.38	4.50	4.10	3.70	3.21	3.07	2.52
UT	64.20	67.80	66.70	62.50	67.01	69.47	14.80	12.20	11.90	8.33	7.22	6.32
VA	64.50	68.70	70.50	71.02	70.46	68.64	8.90	7.10	6.70	7.07	7.12	6.27
VT	38.90	47.50	39.50	40.00	38.46	42.50	8.30	5.00	7.90	7.50	7.69	7.50
WA	58.00	62.40	60.50	62.03	62.39	61.04	7.40	7.20	7.10	6.33	5.56	4.76
WI	43.30	42.80	43.30	45.96	47.78	46.45	7.90	7.80	7.50	7.58	6.53	5.84
WV	45.80	44.00	48.80	48.09	53.54	58.33	21.70	23.90	21.50	19.08	18.90	16.67
WY	41.70	37.10	36.80	43.59	42.11	39.47	38.90	37.10	39.50	35.90	34.21	34.21
US	52.10	52.50	53.10	53.89	54.08	54.71	8.80	8.60	8.00	7.62	6.97	6.45

Special Care Beds

Surveyed facilities reported the number of beds available in dedicated special care units. Table 9 shows the number of beds in special care units for Alzheimer's, AIDS and hospice for 2005 through 2010. The total number of beds dedicated to Alzheimer's was 80,580 in 2010, a decline of 4.25 percent since 2005. These special care beds were 5 percent of the total certified beds in the U.S surveyed in 2010.

The number of dedicated AIDS beds declined from 1,555 in 2005 to 645 in 2010. The number of hospice beds declined from 2,450 in 2005 to 1,970 in 2010. Many nursing facilities, however, offer care to Alzheimer's, AIDS and hospice residents in beds throughout their facilities.



Special Care Beds (continued)

Table 10 shows the number of beds in special care units for rehabilitation, ventilator and dialysis for 2005 through 2010. There were 15,195 rehabilitation beds in special units surveyed in certified nursing facilities in the U.S. in 2010. The number of rehabilitation beds increased by 5.5 percent from 2005 to 2010. This was less than one percent of the total certified nursing facility beds in the U.S. in 2010. There were 8,670 ventilator beds reported in special units in 2010, and these beds had increased by 22.7 percent over 2005. There were 663 dialysis unit beds surveyed in 2010.

It should be noted that many nursing facilities accept residents with special needs but do not maintain separate units for such residents.

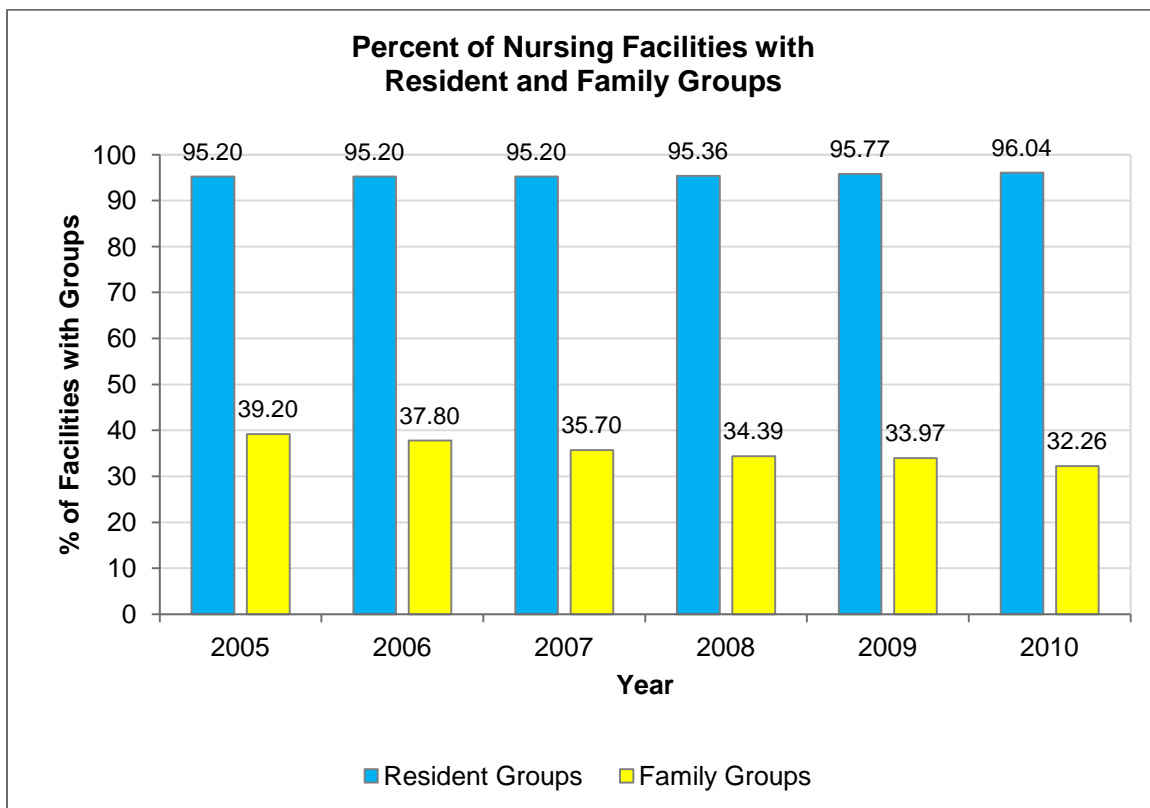
**TABLE 10
TOTAL NUMBER OF SPECIAL CARE BEDS IN CERTIFIED NURSING FACILITIES IN THE U.S.**

State	Rehabilitation						Ventilator						Dialysis					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AL	451	325	245	638	503	506	0	17	0	13	13	13	0	0	0	0	0	0
AR	363	226	169	166	60	97	7	7	10	10	10	10	0	2	0	0	0	0
AZ	263	168	271	145	177	130	225	242	194	246	165	121	0	16	38	56	103	23
CA	1,909	1,612	1,046	1,574	1,251	1,424	2,129	2,015	1,867	2,344	2,170	2,514	7	17	20	16	78	85
CO	237	190	432	407	518	384	34	53	43	50	43	277	0	0	315	242	426	76
CT	1,147	1,203	1,157	1,326	1,260	1,146	60	62	75	72	76	84	0	10	0	0	5	5
DC	0	0	0	0	0	0	0	0	12	12	12	0	0	0	0	0	0	0
DE	15	15	35	126	120	151	17	17	17	30	56	21	1	1	0	0	0	0
FL	680	561	512	513	276	369	216	288	208	196	220	305	196	318	325	50	11	49
GA	187	227	365	261	387	309	0	0	1	0	0	20	0	0	0	0	0	0
HI	10	0	0	0	0	0	10	37	44	43	73	30	10	0	0	0	0	0
IA	114	147	109	172	179	260	16	15	16	74	86	88	6	0	8	0	0	0
ID	181	128	135	65	31	31	5	5	5	5	23	22	0	0	0	0	0	0
IL	604	952	934	1,116	1,272	1,406	475	723	528	471	456	563	82	253	305	215	89	222
IN	113	148	206	224	106	92	101	134	122	122	127	88	16	0	0	96	0	0
KS	50	110	48	17	0	58	18	24	18	18	28	38	0	0	0	0	3	0
KY	34	116	50	0	0	60	97	116	79	127	140	140	0	0	0	0	10	0
LA	43	43	65	55	164	217	189	255	188	171	208	264	1	1	2	0	0	0
MA	398	433	590	361	381	458	36	36	41	61	66	79	0	0	3	0	0	0
MD	109	160	132	68	32	45	124	120	163	183	196	155	0	6	54	60	36	45
ME	18	36	132	112	0	42	67	67	0	0	0	0	0	0	0	0	0	0
MI	238	314	148	191	367	159	186	208	208	180	212	214	1	1	1	0	132	0
MN	1,013	1,164	1,038	1,377	1,636	1,573	32	36	27	16	48	43	2	2	0	2	0	0
MO	415	391	500	405	545	584	10	10	0	0	0	0	11	36	22	6	60	0
MS	0	0	0	60	90	110	0	0	60	70	24	70	0	0	0	0	0	0
MT	22	22	0	22	14	50	0	0	0	0	0	0	0	0	0	3	0	0
NC	20	70	36	79	20	96	66	40	89	107	69	89	0	0	0	0	0	0
ND	16	16	16	16	47	63	0	0	0	0	0	0	0	0	0	0	0	0
NE	191	124	112	79	108	62	72	76	82	82	82	136	0	0	0	1	0	0
NH	63	133	0	114	136	114	6	7	0	12	0	12	0	0	0	0	0	0
NJ	131	180	152	106	215	61	188	217	315	217	189	258	0	0	10	22	8	19
NM	0	0	0	35	103	92	0	0	0	0	0	0	0	0	0	0	0	0
NV	138	138	32	32	48	100	110	114	82	86	118	208	0	0	0	0	0	0
NY	2,308	2,987	2,700	1,696	1,667	1,885	936	1,055	540	559	582	497	58	64	57	0	0	0
OH	740	659	675	613	690	738	488	681	460	445	568	536	8	28	22	37	12	0
OK	36	0	36	93	0	0	58	54	25	71	57	26	0	0	0	0	0	0
OR	128	95	156	27	14	0	5	0	2	0	0	0	0	0	1	0	0	0
PA	735	1,142	1,134	1,178	1,106	1,023	531	510	548	641	710	785	0	8	6	98	7	7
RI	355	328	375	417	267	432	10	10	10	10	10	23	0	1	0	4	0	0
SC	23	6	0	0	22	0	23	20	20	20	0	0	1	0	0	0	0	0
SD	0	0	0	7	7	8	0	0	0	0	0	0	0	0	0	0	0	0
TN	29	29	82	72	0	0	0	0	16	16	16	40	0	0	0	0	0	0
TX	139	183	205	245	481	254	82	150	156	251	131	280	9	7	10	10	11	7
UT	0	54	129	64	67	34	0	0	0	20	20	56	0	1	1	0	0	0
VA	267	103	103	133	113	109	260	149	119	127	128	151	120	0	0	9	240	0
VT	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WA	110	179	347	207	195	176	140	160	191	155	152	184	1	1	1	0	0	0
WI	300	352	199	241	297	287	39	38	90	81	103	230	0	10	0	0	0	125
WV	16	0	0	42	58	0	0	0	0	0	0	0	0	0	0	1	0	0
WY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0
US	14,399	15,509	14,808	14,897	15,030	15,195	7,068	7,768	6,671	7,414	7,387	8,670	530	783	1201	941	1231	663

Resident Groups/ Family Groups

Facilities may have an organized group of residents who meet regularly to discuss and offer suggestions about policies and procedures affecting residents' care, treatment, and quality of life; to support each other; to plan resident and family activities; to participate in educational activities or for any other purposes. Table 11 shows that the percent of facilities with resident groups increased from 95.20 percent in 2005 to 96.04 percent in 2010.

Facilities may have organized groups of family members who meet regularly to discuss issues about residents' care, treatment, and quality of life. Table 11 shows that approximately 39.20 percent of facilities reported family groups in 2005, but this decreased to 32.26 percent by 2010.



**TABLE 11
PERCENT CERTIFIED NURSING FACILITIES WITH RESIDENT GROUPS AND FAMILY
GROUPS**

State	Resident Groups						Family Groups					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	73.30	92.30	86.70	78.57	86.67	86.67	53.30	38.50	46.70	35.71	40.00	46.67
AL	96.30	95.90	96.30	95.75	97.39	97.81	63.20	66.90	61.50	62.26	61.74	60.53
AR	94.50	93.20	94.90	95.34	96.54	97.12	47.70	44.10	41.40	39.83	41.99	34.98
AZ	96.60	95.50	94.40	96.18	93.33	92.03	18.40	18.90	17.70	16.79	16.30	14.49
CA	93.40	93.20	93.70	93.55	93.64	94.79	37.10	35.10	32.10	30.40	30.83	30.43
CO	94.10	95.00	93.80	95.61	94.81	95.26	44.30	43.10	42.10	42.44	41.51	37.44
CT	99.60	100.00	100.00	99.57	100.00	100.00	58.60	56.50	51.50	50.65	49.38	44.44
DC	95.00	95.00	100.00	94.74	94.74	100.00	75.00	80.00	83.30	78.95	68.42	77.78
DE	97.60	92.90	86.40	95.56	95.83	97.30	43.90	35.70	27.30	28.89	22.92	24.32
FL	96.80	96.40	97.90	96.87	96.58	96.78	60.40	56.90	53.00	52.31	54.98	53.15
GA	94.70	94.90	96.00	95.81	96.62	97.04	46.70	43.30	39.90	37.43	33.24	32.84
HI	89.70	91.30	90.20	91.11	91.67	92.68	43.60	43.50	51.20	55.56	52.08	51.22
IA	91.30	89.90	84.70	85.59	87.19	87.10	16.10	19.10	14.20	14.64	14.61	14.48
ID	88.70	90.50	90.00	92.41	92.41	87.34	22.50	18.90	20.00	17.72	20.25	15.19
IL	97.10	97.40	96.80	96.53	97.08	97.45	39.90	38.40	35.70	31.92	28.90	27.81
IN	94.90	94.20	94.40	94.86	95.96	96.27	25.60	22.30	19.50	16.60	17.37	17.09
KS	96.60	96.80	97.60	97.10	97.33	96.76	27.80	28.00	29.00	25.80	23.74	22.42
KY	94.90	95.20	95.80	95.80	96.10	96.13	37.30	34.40	33.70	33.22	32.98	33.45
LA	94.50	93.40	93.30	94.04	94.41	95.39	28.70	26.30	27.00	28.42	27.27	27.30
MA	95.60	95.10	95.10	94.94	97.22	97.44	48.40	45.80	40.40	38.07	36.43	35.90
MD	94.70	94.20	94.90	92.95	93.91	96.30	68.90	65.80	62.00	63.44	56.09	54.17
ME	96.20	95.50	94.40	95.45	92.52	93.52	30.20	28.20	25.90	21.82	21.50	24.07
MI	97.30	97.80	98.80	97.35	98.12	97.67	40.80	39.40	39.00	36.39	34.98	30.07
MN	98.90	98.90	99.20	99.21	98.97	98.19	52.80	55.60	54.80	59.58	58.91	59.07
MO	94.10	92.90	93.40	94.35	95.73	96.88	27.50	26.10	26.10	22.03	21.94	20.12
MS	93.90	94.60	95.00	94.30	96.06	96.53	53.50	54.00	50.00	51.81	48.28	47.03
MT	93.20	92.90	95.30	95.60	95.40	95.35	34.10	31.80	25.90	25.27	26.44	26.74
NC	95.00	96.20	97.10	96.39	96.02	97.64	38.20	39.80	35.50	29.33	29.74	28.37
ND	98.70	95.10	96.30	95.06	95.24	96.51	14.10	13.60	13.80	9.88	9.52	11.63
NE	97.20	97.30	96.60	97.67	96.46	97.30	27.00	28.10	25.50	26.05	22.57	18.02
NH	96.10	96.10	95.10	97.30	96.25	91.25	42.10	39.50	39.50	35.14	36.25	32.50
NJ	95.90	96.00	96.00	96.08	95.53	95.03	37.20	35.70	32.20	32.49	32.12	30.66
NM	94.10	97.10	95.70	97.10	95.77	92.86	48.50	50.00	41.40	37.68	32.39	34.29
NV	89.10	91.50	93.80	100.00	94.00	96.00	28.30	29.80	27.10	31.91	24.00	20.00
NY	99.20	99.10	98.70	98.28	98.27	98.58	60.30	59.80	58.00	57.19	57.70	55.99
OH	96.10	95.90	95.60	96.21	97.09	96.88	28.70	30.70	27.30	26.21	28.69	26.79
OK	96.50	96.30	96.50	96.62	96.89	96.24	17.10	16.20	18.00	18.15	13.98	12.54
OR	96.00	97.70	97.80	97.79	95.62	95.65	29.00	24.80	26.90	22.06	20.44	18.84
PA	93.90	94.20	93.70	94.00	94.97	95.37	36.80	35.50	31.60	29.71	29.09	28.09
RI	96.40	97.70	96.50	96.43	97.56	97.65	31.00	33.30	38.80	40.48	40.24	35.29
SC	95.10	95.20	93.50	95.32	94.97	94.59	46.90	42.50	42.60	42.11	44.69	37.30
SD	97.20	98.10	99.10	99.00	99.09	99.10	32.70	32.70	31.10	25.00	29.09	28.83
TN	94.20	94.90	94.00	94.32	95.86	97.50	52.60	45.30	43.50	41.32	43.63	40.31
TX	94.30	94.30	94.50	94.80	94.80	95.47	41.20	38.10	37.20	38.42	36.71	35.68
UT	84.00	85.60	86.90	86.46	85.57	86.32	24.70	23.30	22.60	21.88	24.74	22.11
VA	96.40	95.90	94.00	94.70	96.44	95.12	37.90	35.80	36.60	36.40	34.88	31.01
VT	100.00	100.00	100.00	97.50	100.00	100.00	25.00	22.50	26.30	25.00	20.51	30.00
WA	95.10	95.80	96.60	97.05	96.15	97.84	33.70	32.10	32.40	27.00	26.50	23.38
WI	93.90	94.90	96.10	96.72	97.65	96.19	30.10	29.10	28.10	23.99	25.33	20.56
WV	87.50	88.10	90.10	90.84	92.13	91.67	46.70	43.10	43.00	45.80	45.67	41.67
WY	91.70	91.40	92.10	94.87	94.74	94.74	36.10	34.30	31.60	35.90	39.47	36.84
US	95.20	95.20	95.20	95.36	95.77	96.04	39.20	37.80	35.70	34.39	33.97	32.26

RESIDENT CHARACTERISTICS

Background

Nursing facilities vary in the type of residents they serve. Resident characteristics affect the environment of the facility. Moreover, the special characteristics of nursing facility residents require different levels and types of staff resources and affect the facility's success in providing high quality care. A number of nursing facility resident classification systems have been developed and are often referred to as "case mix" indicators.

The resource utilization group system (RUGS-II) was the most well established case mix approach tested which as for reliability and validity (Fries and Cooney, 1985; Schneider et al., 1988; Fries et al., 1989). RUGS II was developed from a study of Medicaid nursing home residents in New York and consists of 16 groups which are first divided into five categories: special care, rehabilitation, clinically complex, severe behavioral problems, and reduced physical functioning. Subgroups are formed under each of these categories by degree of dependency in activities of daily living (ADL). RUGS III is the latest version developed for the current HCFA Nursing Home Case Mix demonstration project (Fries et al., 1994).

The OSCAR report has summary data on residents at the facility level describing resident's need for assistance with activities of daily living (ADL). Although interesting, such data are difficult to understand

unless they are summarized in some way. Two types of summary data are presented. First, a simple summary of three major activities of daily living (ADLs) was compiled. The facilities were asked to rate each resident's ADLs on a scale of 1 to 3 from needs little or no assistance to needs extensive assistance. The three ADL scores were for those residents who needed assistance in: (1) eating, (2) toileting, and (3) transferring. A score of 1 was assigned to residents who were independent. A score of 2 was assigned to those that needed some supervision. A score of 3 was assigned to those who were dependent.

Each ADL score was multiplied by the number of residents in that category for each facility. An average composite score was developed by adding each of the three scores together and dividing by the total number of residents in the facility to compute each facility's index score. Thus, a summary case mix score ranging from 3-9 was compiled for each facility based on resident ADL characteristics. Individual facility scores were then summarized for each state. Because of reporting changes by HCFA, data for the earlier years could not be computed for this report.

The second approach used was based upon a composite case mix index for nursing facilities. This approach was developed by Thoms

(1975) and used by a number of researchers including Cowles (Health Data Associates 1994). This approach constructed a casemix score by multiplying the proportion of residents with selected ADL limitations and selected patient problems times the estimated number of management minutes required for care of those selected problems, developed from a study of service requirements by Thoms (1975). Thus, a weighted score was multiplied by the percentage of residents in various categories as follows: completely bedfast times 46; needing assistance with ambulation times 32; needing full eating assistance times 45; needing some eating assistance times 20; having an indwelling catheter times 20; incontinent times 48; having decubitus ulcers times 20; receiving

bowel or bladder retraining times 26; and receiving special skin care times 10. Thus, an index was constructed for each facility and then summarized to develop an average resident acuity at the state level. In addition, the following characteristics show the type of more advanced care that residents receive: percent of clients receiving special treatments (injections, ostomy care, IV feedings, tube feedings, or suctioning), and percentage with organic psychiatric or other psychiatric conditions. Other characteristics that may be important are the percentage who receive psychotropic drugs and who have pressure ulcers, contractures, incontinence, and catheters.

FINDINGS

RESIDENT CHARACTERISTICS AND SERVICES PROVIDED

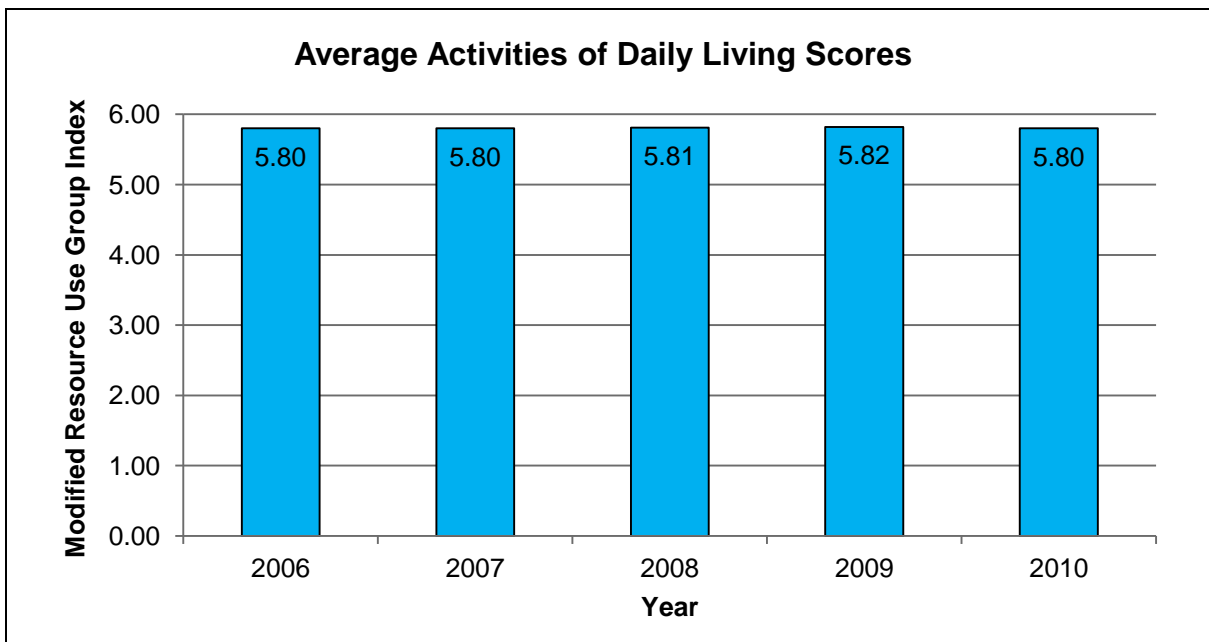
Assistance with Activities of Daily Living

Table 12 shows the average score for residents needing assistance with eating, toileting, and transferring from surfaces such as to and from the bed, chair, wheelchair, or to and from a standing position, in facilities by state. Each state has an average score from 1 to 3 in terms of the need for assistance, where 1 indicates the lowest need and 3 the greatest need for assistance. The U.S. average resident need for eating assistance was 1.70 for all facilities surveyed in 2006, and was 1.66 in 2010.

The average score for residents needing assistance in toileting is shown in Table 12. The U.S. average resident need for toileting assistance was 2.10 in 2006, and 2.11 in 2010.

Finally, the need for resident assistance with transferring is shown in Table 12. The average resident need was 2.00 for transferring in 2006, and 2.04 in 2010.

Table 12 also shows the average summary scores for these three activities of daily living for all facilities in each state. The average resident need score for eating, toileting, and transferring for all facilities surveyed in the U.S. was 5.80 in 2006, and 5.80 in 2010. The summary scores on a three-point scale show some variation across states.



Summary Resident Acuity Index

Table 13 shows the average summary score for resident acuity using the management minute approach. This index is based on a compilation of resident characteristics including being bedfast, needing assistance with ambulation, needing full eating assistance, needing some eating assistance, having an indwelling catheter, being incontinent, having a pressure ulcer, receiving bowel or bladder retraining, and receiving special skin care. Each of these characteristics was weighted by the average amount of management minutes or the time needed to provide nursing care.

The average index was 102.20 in 2005 which declined to 91.62 in 2010 for all facilities surveyed in the U.S. This index allows for comparisons of acuity differences in facilities across states, which ranged from 70.30 in Iowa to 122.49 in Hawaii in 2010. This shows a wide variation in levels across states.

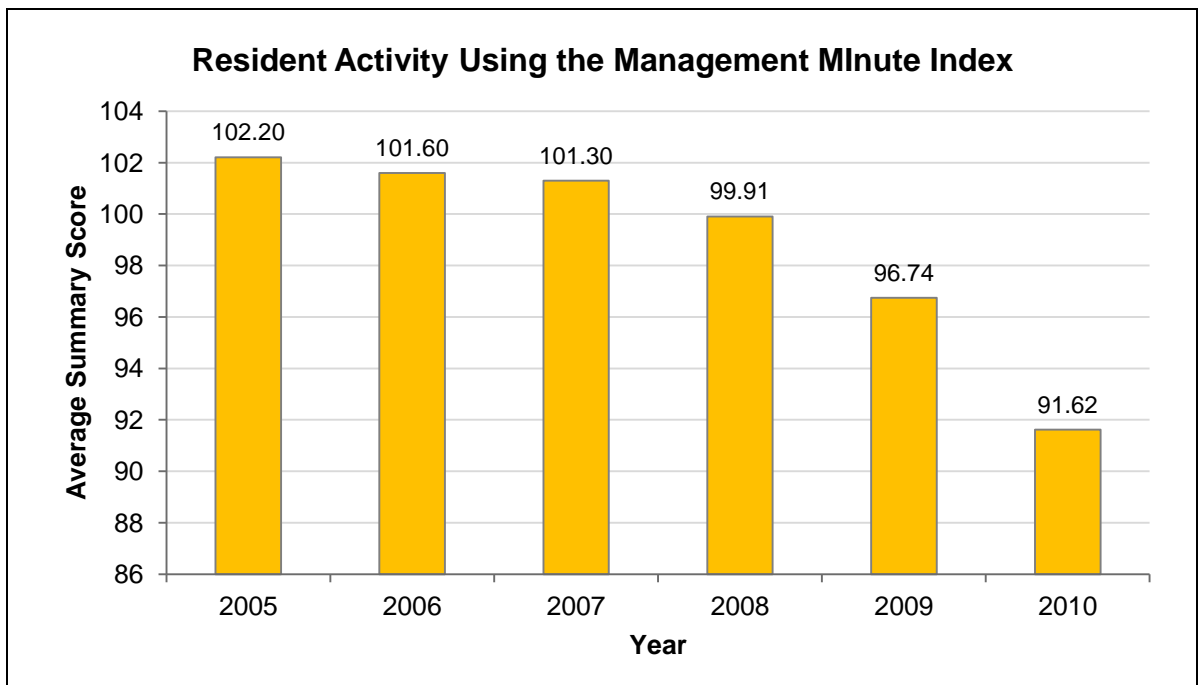


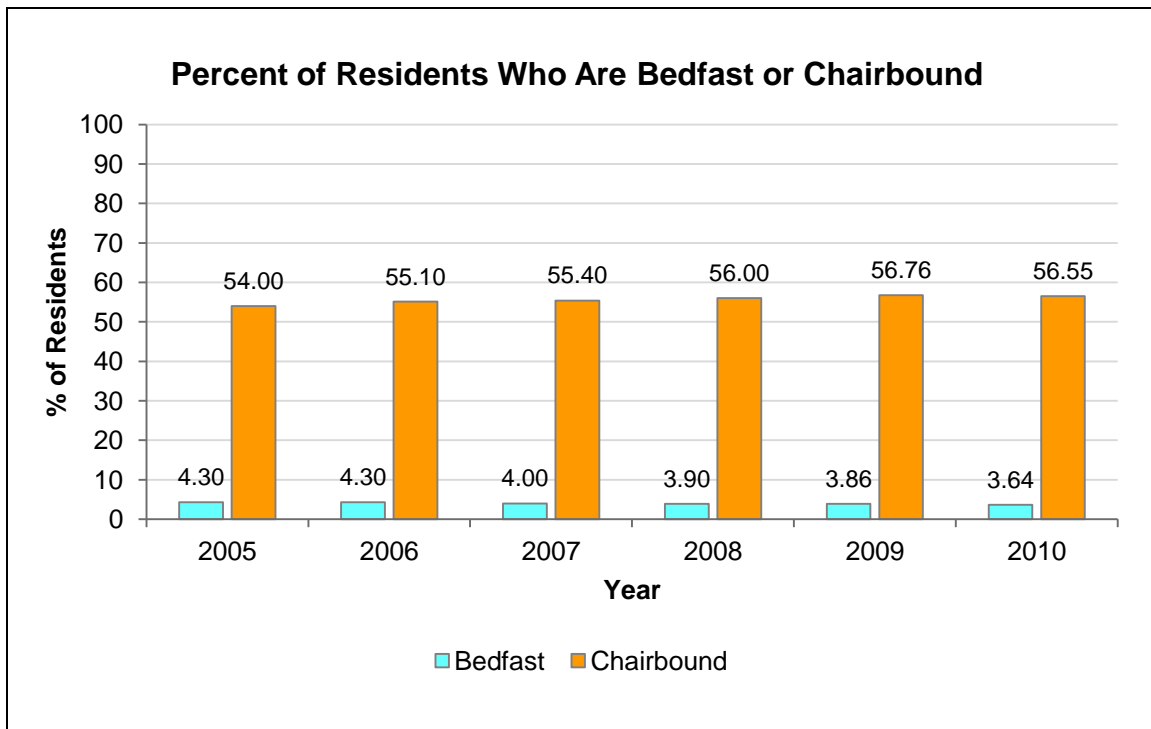
TABLE 13
AVERAGE SUMMARY SCORE FOR RESIDENT ACUITY
USING THE MANAGEMENT MINUTE INDEX

State	2005	2006	2007	2008	2009	2010
AK	85.30	42.00	92.70	93.63	76.81	81.37
AL	104.90	105.80	106.30	103.79	103.50	104.97
AR	101.20	102.20	100.10	93.36	94.59	91.70
AZ	101.50	98.20	93.30	98.96	89.76	83.47
CA	111.20	109.40	110.40	108.07	100.98	96.21
CO	88.30	90.60	90.20	91.85	85.56	82.44
CT	93.00	89.80	88.50	85.46	82.26	83.86
DC	113.00	102.30	107.10	111.99	99.16	109.55
DE	100.10	93.90	95.30	93.30	89.92	90.63
FL	105.40	107.70	108.00	106.56	101.25	99.27
GA	115.60	116.00	115.30	114.78	111.46	106.14
HI	111.90	120.40	129.90	126.32	123.49	122.49
IA	77.30	77.00	77.30	78.18	73.07	70.30
ID	96.90	90.20	87.90	100.64	96.68	92.15
IL	86.80	88.20	88.70	86.81	81.38	79.06
IN	93.60	95.40	96.50	94.12	90.20	87.33
KS	87.70	82.90	83.30	79.30	73.13	73.57
KY	108.80	107.10	106.80	107.52	102.32	101.58
LA	108.20	107.10	106.30	102.28	102.11	99.63
MA	93.50	94.80	97.00	95.26	92.85	90.70
MD	113.50	112.50	110.80	111.14	103.89	102.20
ME	101.30	101.10	98.50	101.94	99.19	94.49
MI	97.60	97.90	98.00	96.47	90.83	89.85
MN	92.40	91.80	93.50	88.52	83.58	82.39
MO	86.90	89.40	89.60	88.44	82.78	79.62
MS	112.00	113.30	113.80	111.66	109.58	108.68
MT	82.80	85.70	81.80	83.78	83.85	83.17
NC	116.70	114.90	114.90	111.16	107.46	104.46
ND	76.30	82.70	89.20	81.17	77.61	77.63
NE	78.50	76.60	76.30	81.09	74.69	76.40
NH	90.40	90.90	84.50	76.76	77.98	76.76
NJ	95.00	96.70	96.10	95.41	90.23	91.08
NM	102.20	105.33	106.20	103.11	98.26	91.18
NV	110.10	101.00	108.50	102.53	92.05	88.03
NY	112.60	110.90	108.60	108.08	104.52	104.24
OH	100.40	98.80	97.80	97.34	94.48	90.90
OK	97.80	97.80	97.10	91.22	70.94	82.30
OR	98.40	99.30	93.20	97.38	93.77	97.18
PA	105.60	104.50	103.40	102.35	97.74	96.66
RI	82.90	82.00	78.90	80.23	73.46	73.24
SC	127.30	127.00	127.40	120.21	115.23	110.33
SD	90.80	88.30	87.80	82.98	78.42	78.23
TN	112.10	111.90	111.60	112.23	109.88	106.59
TX	100.80	99.90	99.50	98.83	95.27	92.77
UT	93.90	91.94	101.70	95.91	91.46	85.44
VA	111.30	110.50	108.80	106.44	100.25	96.09
VT	101.60	105.30	106.40	103.59	101.75	89.95
WA	96.40	95.40	94.80	95.74	92.65	86.93
WI	83.80	82.80	84.20	82.45	82.95	80.53
WV	107.00	109.60	101.80	104.43	104.33	100.35
WY	78.50	94.30	79.10	87.86	84.95	77.49
US	102.20	101.60	101.30	99.91	96.74	91.62

Residents Who Are Bedfast or Chair Bound

Table 14 shows the percent of total residents who were bedfast in the 2005 to 2010 period. This includes residents who were in a bed or recliner for 22 or more hours per day in the week before the survey. The percent of bedfast residents decreased from 4.30 in 2005 to 3.64 in 2010 for all facilities surveyed. In 2010, the average percent of bedfast residents ranged from 0.99 percent in South Dakota to 7.95 percent in Hawaii.

A number of residents depend on a chair for mobility or are unable to walk without extensive or constant support from others. The percent of total residents who were chair bound averaged from 54.00 to 56.55 percent in the U.S. in 2005-2010 (See Table 14). The percent of chair bound residents ranged from 37.58 percent in Rhode Island to 67.77 percent in Hawaii in 2010.



**TABLE 14
PERCENTAGE OF RESIDENTS
WHO ARE BEDFAST OR CHAIRBOUND**

State	Bedfast						Chairbound					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	2.40	3.80	0.30	2.60	4.12	7.64	65.50	53.00	36.80	50.00	51.06	47.23
AL	7.00	7.90	7.30	7.10	5.74	5.83	56.20	57.50	56.60	58.00	59.24	59.67
AR	5.00	5.90	4.60	4.70	4.71	4.05	54.80	52.70	54.70	55.10	52.93	56.53
AZ	3.40	3.10	3.10	2.90	3.71	4.81	54.80	62.60	59.70	60.00	60.25	63.01
CA	6.40	6.30	6.00	5.90	6.14	5.98	55.70	56.40	55.70	56.70	56.59	56.57
CO	2.80	2.60	2.70	2.20	2.62	2.24	51.40	50.60	51.20	52.70	54.09	52.10
CT	1.70	2.30	1.80	1.80	1.73	1.85	50.30	50.40	49.10	49.50	51.10	52.39
DC	5.50	2.60	3.10	2.70	3.69	3.80	65.20	63.20	58.90	63.20	65.34	58.03
DE	5.80	3.20	3.80	4.50	3.23	3.01	53.00	60.20	57.30	58.70	61.97	62.46
FL	3.20	3.60	3.40	3.30	3.38	3.35	62.90	63.80	64.90	65.10	65.17	65.63
GA	6.30	6.40	6.60	6.70	5.96	6.03	52.70	56.00	56.00	57.30	58.42	60.27
HI	7.70	8.00	5.60	6.90	7.37	7.95	56.30	57.80	61.80	62.60	56.59	67.77
IA	1.80	1.40	1.60	1.50	1.87	1.12	47.00	47.40	45.10	45.40	48.09	44.40
ID	2.60	3.10	2.60	2.10	2.06	2.58	60.50	54.90	56.00	53.30	59.18	58.56
IL	2.40	2.20	2.00	1.90	1.95	1.88	50.40	51.30	51.80	52.00	52.81	52.24
IN	3.70	3.40	3.00	3.30	3.00	2.61	56.20	56.50	56.00	57.10	58.28	56.03
KS	1.90	1.80	1.80	1.80	1.78	1.74	50.40	51.90	51.40	51.00	50.12	50.37
KY	9.70	8.70	8.00	7.50	7.20	7.34	52.00	52.20	52.50	53.40	53.91	57.42
LA	10.50	10.50	8.50	8.40	8.14	6.91	50.50	53.40	54.70	53.50	52.02	51.94
MA	2.10	2.20	2.30	2.10	1.92	1.93	46.90	44.80	45.70	45.00	46.87	47.91
MD	4.80	4.80	4.40	4.70	4.56	5.17	55.90	55.30	58.80	60.30	59.78	60.28
ME	4.20	4.80	4.00	3.50	3.76	3.58	57.80	57.10	59.30	58.70	56.49	53.29
MI	2.50	2.70	2.90	3.00	2.75	2.49	57.40	58.90	60.40	62.40	63.87	62.15
MN	1.10	1.20	0.90	0.90	0.85	1.17	52.60	54.00	54.80	55.70	56.55	54.45
MO	2.20	2.20	2.10	2.00	1.98	1.57	53.50	52.70	52.80	55.10	55.24	54.80
MS	7.90	9.20	7.30	6.80	6.84	6.16	56.10	56.50	57.10	56.70	57.89	60.03
MT	2.10	2.80	2.50	2.80	2.65	2.67	48.10	47.40	45.10	46.30	46.91	41.31
NC	8.60	8.90	8.10	7.80	7.56	6.69	54.90	55.10	53.80	56.10	56.57	58.44
ND	1.60	1.50	1.90	1.30	1.72	1.63	55.50	57.20	56.20	55.40	56.34	49.28
NE	1.30	1.20	1.20	1.10	0.73	1.20	51.70	52.80	52.10	51.40	51.76	52.60
NH	2.50	2.10	2.20	1.90	2.22	2.54	44.50	45.20	47.60	46.30	46.80	48.08
NJ	3.40	3.30	3.10	3.00	3.06	3.23	57.00	57.30	58.90	59.70	59.71	62.82
NM	2.60	2.60	3.10	1.90	2.65	2.81	50.40	60.70	57.60	59.80	61.97	58.48
NV	3.50	5.40	7.40	6.60	6.74	6.34	56.40	58.50	57.90	60.60	59.18	56.42
NY	2.40	2.40	2.30	2.10	1.93	1.97	60.90	61.10	61.00	60.40	60.58	59.55
OH	3.70	3.50	3.60	3.50	3.41	3.24	53.90	53.20	52.30	51.80	52.69	51.62
OK	5.80	6.60	6.20	6.10	5.36	5.53	51.50	53.60	54.20	54.70	53.24	53.06
OR	5.00	5.80	5.80	4.90	5.34	6.16	61.30	59.40	58.50	61.60	59.93	60.93
PA	4.30	4.10	3.80	3.80	3.45	3.33	55.70	55.60	55.80	56.70	57.58	58.27
RI	1.10	1.70	1.60	1.70	1.77	2.28	37.30	37.80	39.60	38.60	38.95	37.58
SC	5.40	5.80	5.10	5.50	4.87	3.92	59.40	62.80	60.20	63.20	64.53	64.48
SD	1.20	1.20	0.60	0.90	0.99	0.99	57.60	59.00	56.60	53.40	55.70	51.53
TN	7.50	7.40	6.90	6.60	6.67	5.15	54.60	53.90	55.40	56.60	59.96	60.61
TX	6.70	6.70	6.30	6.20	5.63	4.83	57.50	56.70	58.80	59.50	61.18	61.74
UT	2.80	3.40	3.00	2.60	2.89	2.76	47.10	47.80	44.40	46.10	50.51	46.16
VA	5.70	5.50	5.10	4.90	5.22	4.71	62.50	60.80	60.40	62.20	62.88	62.83
VT	4.30	2.80	3.50	3.30	4.26	2.81	50.00	53.10	51.90	50.70	52.20	50.54
WA	4.40	4.10	4.10	4.40	4.15	4.04	65.20	63.10	64.90	64.80	66.14	63.68
WI	1.60	1.50	1.70	1.60	1.70	1.66	55.50	55.80	58.40	57.60	59.05	56.56
WV	6.10	4.70	5.30	4.80	4.40	4.50	52.50	52.60	54.60	55.10	58.19	61.07
WY	4.50	2.00	1.60	2.20	2.73	2.00	46.80	41.70	48.30	42.80	46.15	40.23
US	4.30	4.30	4.00	3.90	3.86	3.64	54.00	55.10	55.40	56.00	56.76	56.55

Contractures

Contractures, which are restrictions in full range of motion of any joint due to deformity, disuse and pain, are common problems of nursing facility residents. In 2005, 28.90 percent of residents were reported as having contractures and this decreased to 26.28 percent in all facilities surveyed in 2010 (See Table 15). The average percentage reported ranged from 15.6 percent in Arkansas facilities to 45.67 percent in Alaska in 2010.

Physical Restraints

Physical restraints include physical or mechanical devices, material or equipment, which cannot be easily removed by residents, to restrict freedom of movement or normal access to one's own body. In 2005, 6.90 percent of facilities reported using such restraints but this declined to 2.97 percent in all facilities surveyed in 2010 (by 57 percent) (See Table 15). The reduction may have been related to regulations and training about the negative effects of restraints on residents. The average percentage in 2010 ranged from 0.25 percent in Alaska to 6.37 in Louisiana.

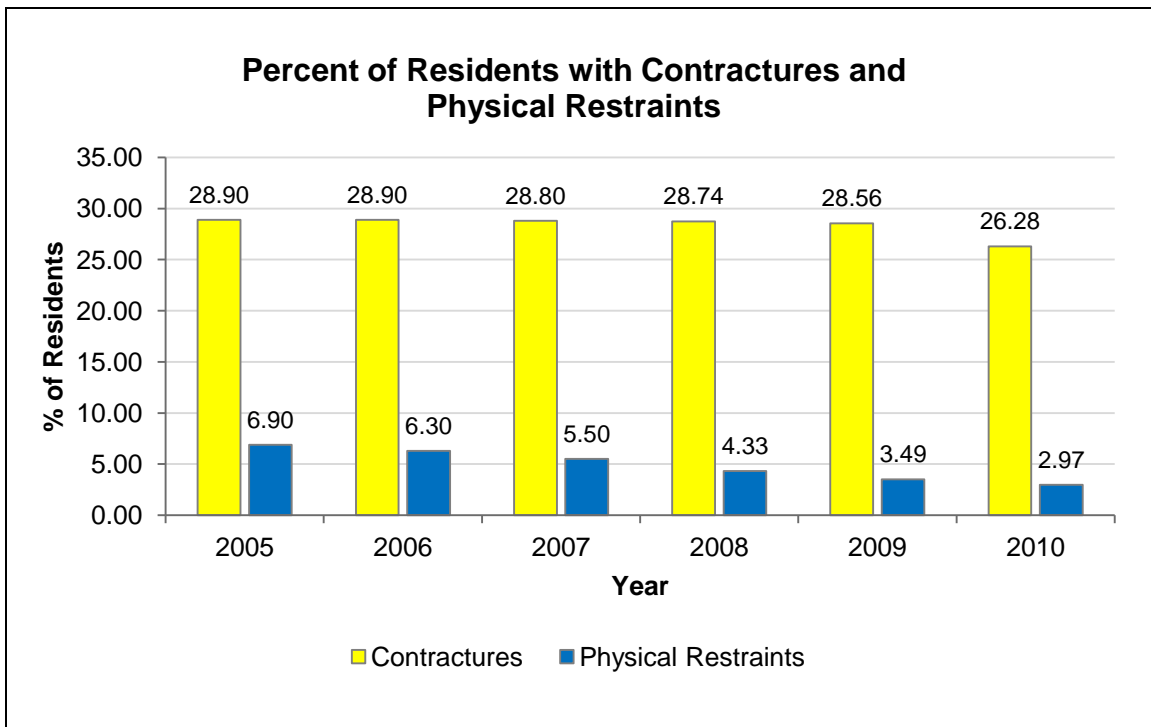
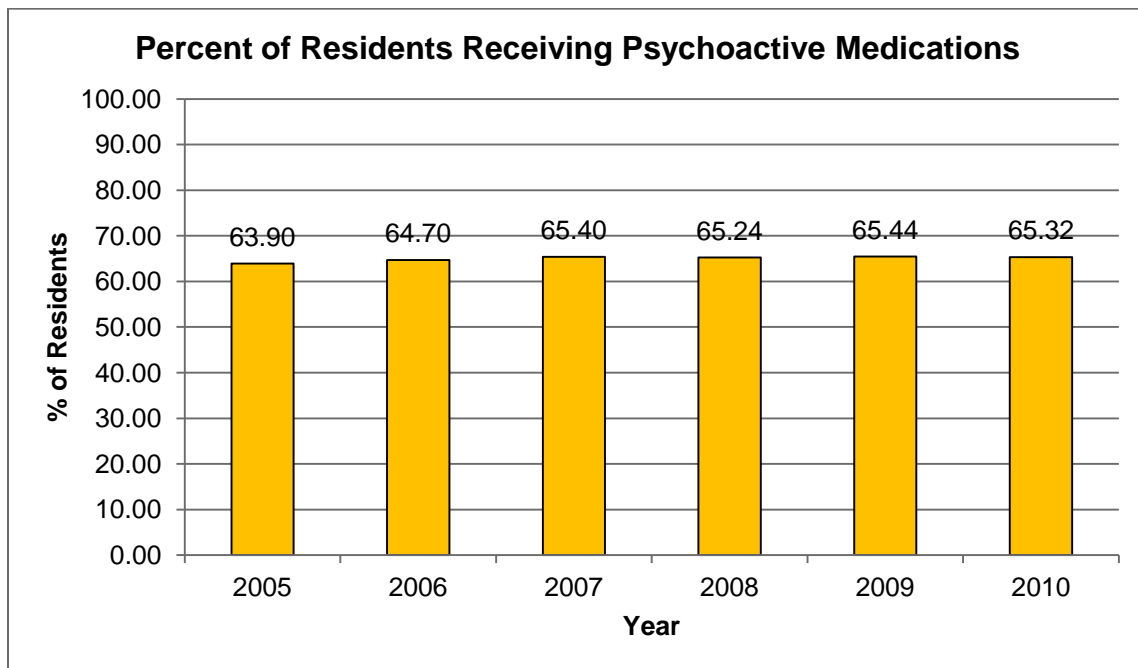


TABLE 15
PERCENT OF RESIDENTS
WITH CONTRACTURES AND PHYSICAL RESTRAINTS

State	Contractures						Physical Restraints					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	51.20	56.20	55.80	45.20	56.36	45.67	6.70	5.40	4.50	1.35	0.25	0.25
AL	35.20	33.90	35.30	38.74	40.46	41.24	4.50	4.20	2.80	2.43	2.47	2.94
AR	22.50	21.60	19.90	18.02	16.93	15.60	15.00	13.70	11.90	6.37	4.82	3.84
AZ	21.70	24.20	24.40	30.19	28.23	22.67	11.30	8.10	5.00	3.55	2.18	1.61
CA	27.70	27.20	28.10	28.89	28.46	26.58	13.50	12.90	11.00	8.56	7.08	5.59
CO	24.40	24.10	23.40	25.42	25.44	21.57	7.50	7.50	6.90	5.59	4.46	3.21
CT	17.70	18.30	18.40	16.80	15.63	16.15	7.80	6.10	5.00	3.47	2.42	1.99
DC	31.60	26.70	24.70	25.11	16.97	30.48	2.00	1.90	2.10	2.67	1.47	1.26
DE	24.70	28.20	29.40	33.84	30.45	28.07	3.20	4.40	5.00	3.90	3.50	3.78
FL	20.60	21.10	21.70	21.10	22.20	19.95	7.90	7.70	6.70	4.78	3.65	3.29
GA	34.50	35.30	34.10	34.84	34.49	31.16	7.30	6.50	5.60	4.17	3.13	2.60
HI	34.10	41.00	41.80	42.81	46.14	44.04	4.70	5.60	4.40	7.24	6.68	6.13
IA	33.50	33.00	33.50	34.29	33.79	30.99	2.60	2.50	2.30	2.37	2.22	1.74
ID	26.10	28.10	27.40	32.10	38.74	31.29	6.20	3.20	3.80	3.68	3.41	3.56
IL	24.60	26.70	28.00	26.78	28.71	25.32	4.40	4.40	4.20	3.86	3.30	2.93
IN	24.40	24.90	25.60	23.80	23.31	20.47	5.50	5.60	4.70	3.54	2.43	1.97
KS	31.50	30.30	28.80	28.34	29.00	25.73	2.90	2.20	2.60	1.29	0.81	0.68
KY	26.40	25.10	25.70	25.67	23.88	24.32	6.80	6.40	5.90	5.30	5.20	5.23
LA	37.40	38.60	35.70	34.60	34.32	31.33	14.00	12.50	11.00	8.30	7.68	6.37
MA	18.10	18.00	19.30	18.24	19.42	18.69	6.00	5.30	4.80	4.20	3.33	2.86
MD	25.30	25.80	22.80	25.24	23.76	22.90	6.80	5.30	4.20	3.80	2.80	2.53
ME	40.30	38.20	37.00	42.08	39.52	29.51	4.60	3.40	2.90	1.88	1.21	0.83
MI	26.10	27.40	27.80	25.43	23.27	22.02	5.80	5.40	4.80	4.18	3.39	3.45
MN	34.30	33.40	33.70	30.88	28.23	24.78	4.00	3.30	2.80	2.33	1.69	1.52
MO	23.20	23.00	22.70	21.72	21.23	19.47	6.30	6.10	5.50	4.51	2.84	2.43
MS	45.10	43.20	44.00	42.24	42.23	39.86	11.10	10.80	8.80	6.01	5.82	5.91
MT	37.90	35.70	38.30	36.73	37.65	36.04	2.70	2.50	2.40	1.87	2.34	3.51
NC	36.10	34.60	31.80	33.34	32.40	30.12	9.20	9.10	7.20	4.44	3.29	2.78
ND	42.60	37.90	38.00	37.31	37.68	35.17	2.40	2.70	2.20	1.69	1.31	1.42
NE	39.80	39.10	37.90	38.69	38.42	33.67	1.80	1.60	1.50	1.57	1.16	0.97
NH	32.10	33.00	30.30	27.25	27.90	27.83	3.20	2.50	2.20	1.26	0.82	0.97
NJ	15.40	15.90	16.40	17.98	16.07	15.67	5.60	5.30	4.90	3.91	3.37	2.94
NM	29.30	33.10	32.30	32.73	33.06	23.97	8.20	7.50	6.20	5.74	3.86	2.23
NV	33.50	30.50	30.80	31.51	30.89	26.30	7.90	6.40	9.50	3.73	2.72	1.80
NY	41.80	39.90	38.60	37.29	36.96	35.27	5.60	5.10	4.60	3.76	3.43	3.23
OH	38.10	38.80	36.10	35.74	34.77	31.23	6.10	5.80	5.60	4.89	4.37	3.68
OK	25.50	24.70	25.30	24.75	19.43	21.74	13.30	12.30	10.60	6.90	3.07	2.58
OR	28.70	32.70	30.00	31.06	33.57	31.97	7.30	6.00	4.20	4.48	3.91	2.78
PA	22.30	22.50	23.00	22.58	22.82	22.24	4.70	4.40	3.80	3.05	2.71	2.19
RI	19.50	21.60	21.60	25.39	23.27	21.46	3.70	3.30	2.70	2.18	1.23	1.11
SC	37.80	36.30	38.80	37.12	35.63	31.38	9.10	8.40	6.50	6.14	5.73	4.34
SD	50.80	50.30	49.00	48.94	47.07	40.42	4.20	4.00	2.50	2.18	1.41	1.16
TN	26.70	23.70	26.60	25.03	26.00	24.04	8.90	8.20	7.30	6.63	5.37	4.78
TX	24.60	24.90	24.60	25.62	26.99	25.79	6.90	5.90	5.30	3.98	3.00	2.40
UT	21.40	23.30	24.10	24.34	28.02	23.47	8.90	7.70	6.90	5.74	4.50	3.16
VA	27.70	28.20	30.50	31.24	29.70	29.12	4.50	3.50	3.00	2.26	1.84	1.18
VT	31.90	34.70	33.80	34.50	43.01	27.91	3.10	3.50	2.30	1.88	2.04	1.05
WA	34.90	35.30	38.00	38.60	35.90	30.63	3.60	2.90	3.30	2.74	1.85	1.41
WI	29.00	28.50	28.20	26.99	28.50	26.57	2.70	2.40	2.00	1.48	1.30	1.07
WV	39.90	38.30	38.90	39.14	38.77	35.43	4.20	3.40	3.40	3.26	3.16	2.82
WY	23.00	30.00	23.60	26.83	27.68	20.92	4.10	4.90	2.80	2.43	2.29	2.00
US	28.90	28.90	28.80	28.74	28.56	26.28	6.90	6.30	5.50	4.33	3.49	2.97

Psychoactive Drugs

The percent of residents receiving psychoactive medications is reported in Table 16. Such drugs include anti-depressants, anti-anxiety drugs, sedatives and hypnotics, and anti-psychotics. In 2005, 63.90 percent of residents in facilities in the U.S. were reported to be receiving such medications. This usage increased to 65.32 percent in 2010; specifically, these percentages ranged from 44.16 percent in Hawaii to 72.78 percent in Tennessee. The increase is somewhat surprising because federal regulations prohibit the use of anti-psychotics and other psychoactive drugs unless such drugs are shown to be necessary for particular resident problems. On the other hand, anti-depressants are sometimes under-prescribed and new educational efforts are focused on the appropriate use of anti-depressants.



Mental Retardation/Developmental Disabilities

Federal regulations from OBRA 1987 require screening of all new residents to ensure that those who are mentally retarded, developmentally disabled, or mentally disabled are placed in appropriate facilities where they receive services designed to meet their needs. State officials are required to certify that those individuals with mental retardation who are placed in nursing facilities are receiving appropriate services. The percent of residents with developmental disability was reported. This includes residents who have mild to profound mental retardation. Table 16 shows that 2.50 to 2.72 percent of residents were reported to have developmental disabilities in 2005 and in 2010 (about a 45 percent increase).

TABLE 16
PERCENT OF RESIDENTS
RECEIVING PSYCHOACTIVE MEDICATION AND HAVING MENTAL RETARDATION

State	Receiving Psychoactive Medications						Mental Retardation					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	67.20	67.10	66.30	63.33	63.99	59.10	1.00	0.80	1.40	2.18	1.80	2.39
AL	67.70	66.20	68.30	68.49	71.06	69.50	5.00	5.40	4.80	5.60	5.34	5.28
AR	65.40	67.60	67.30	66.03	66.65	64.59	3.50	3.50	3.40	4.57	4.36	3.95
AZ	62.70	64.10	61.70	64.58	62.76	61.99	1.00	1.30	1.40	1.38	1.06	1.22
CA	56.60	57.50	58.00	57.36	57.89	57.51	2.40	2.40	2.30	2.57	2.73	2.47
CO	64.30	64.60	66.50	64.23	64.14	65.12	1.50	1.30	1.30	2.01	2.17	1.65
CT	67.20	67.00	68.20	69.02	67.52	67.33	2.60	2.70	2.60	2.24	2.29	2.13
DC	47.80	49.50	49.90	46.68	47.24	46.77	1.90	1.50	2.10	1.09	1.11	1.13
DE	65.40	63.40	62.40	61.17	62.30	60.91	2.50	2.70	2.40	3.28	3.21	1.67
FL	63.90	64.90	66.00	66.14	66.70	65.30	1.60	1.70	1.70	1.58	1.55	1.39
GA	64.90	65.90	67.60	68.34	69.26	69.49	4.40	4.60	4.40	5.28	5.24	4.92
HI	39.30	43.10	42.50	41.84	40.42	44.16	2.10	2.50	2.40	4.42	3.72	4.98
IA	62.20	64.50	64.60	64.98	66.29	66.98	2.20	2.20	2.00	3.91	4.12	4.00
ID	66.40	67.40	70.10	71.25	69.72	71.26	1.60	1.30	1.40	2.91	2.83	2.77
IL	63.40	63.50	64.00	64.66	65.10	65.29	2.20	2.10	2.10	2.15	2.15	2.23
IN	64.70	65.60	67.80	66.16	66.30	66.68	3.20	3.00	3.10	4.08	4.38	3.95
KS	66.80	67.20	68.70	68.07	69.52	69.26	1.50	1.40	1.40	2.96	2.92	2.49
KY	67.70	68.00	69.00	70.46	70.27	69.95	3.10	3.40	3.40	3.92	4.02	3.77
LA	65.90	66.60	67.10	68.10	70.37	69.36	3.40	3.20	3.10	3.63	3.23	2.92
MA	69.80	69.60	70.90	71.04	72.26	72.19	2.50	2.40	2.40	2.31	2.22	1.80
MD	58.00	56.80	57.30	55.76	59.17	58.66	1.80	1.70	2.00	1.50	1.51	1.83
ME	70.40	72.00	72.60	71.54	70.57	72.28	1.60	1.50	1.40	3.61	2.77	2.40
MI	61.10	63.60	63.10	61.69	61.18	61.70	2.20	1.80	1.70	1.92	1.87	1.83
MN	64.40	63.70	64.20	62.52	62.29	61.54	1.10	1.20	1.10	1.28	1.26	1.28
MO	67.40	68.60	69.10	69.84	69.83	69.12	2.70	2.90	2.90	4.02	4.22	4.00
MS	66.50	66.40	66.90	67.04	67.30	67.26	2.60	2.70	2.90	3.55	3.75	3.56
MT	61.80	61.10	64.30	67.09	66.53	65.19	1.60	1.50	1.60	3.04	2.89	3.77
NC	65.10	67.20	67.10	67.35	67.41	67.39	2.30	2.60	2.30	2.27	2.42	2.56
ND	66.00	67.30	67.30	68.17	66.93	68.20	2.30	2.20	2.30	2.72	3.19	2.76
NE	64.60	66.00	68.40	67.30	68.23	66.56	1.90	2.20	2.10	3.68	3.45	3.28
NH	68.70	70.70	69.00	68.00	68.38	67.35	1.70	1.80	1.80	1.35	1.83	1.53
NJ	56.40	57.40	57.50	55.60	56.43	56.16	3.50	3.70	3.90	3.07	2.80	3.06
NM	60.60	63.10	62.70	63.49	60.10	60.13	1.50	1.70	1.60	1.87	1.45	1.60
NV	63.70	58.20	59.90	60.92	60.20	58.17	2.10	2.10	1.80	2.15	2.40	2.33
NY	57.30	58.50	58.50	57.67	59.59	59.82	4.10	4.20	3.80	2.43	2.32	2.17
OH	67.90	69.10	68.90	68.44	69.00	68.25	2.50	2.40	2.50	3.18	3.04	2.85
OK	67.10	68.70	68.80	69.65	55.28	69.68	2.50	2.70	2.50	4.72	3.16	3.83
OR	70.50	69.30	68.50	66.15	66.12	64.04	1.90	1.70	1.80	2.75	2.42	2.57
PA	65.20	65.60	66.40	66.90	66.42	66.12	2.50	2.70	2.40	1.77	1.97	1.86
RI	66.60	67.70	71.00	71.93	68.37	70.90	1.70	1.50	1.20	1.52	1.45	1.42
SC	61.60	61.30	62.60	62.21	62.44	62.41	2.30	2.20	2.00	2.37	2.40	2.73
SD	63.40	63.30	64.80	66.28	67.18	66.15	1.60	1.50	1.70	2.63	2.44	2.57
TN	70.30	70.20	72.30	73.74	74.26	72.78	3.50	3.30	3.40	3.17	3.13	2.82
TX	64.40	65.50	67.10	67.06	67.78	66.86	2.60	2.70	2.60	3.24	3.38	3.18
UT	70.50	71.50	69.10	68.16	71.37	67.84	1.90	2.00	2.50	4.44	3.65	4.14
VA	62.30	63.60	64.50	63.88	64.74	64.82	4.10	4.10	4.10	4.03	3.92	3.45
VT	68.30	70.60	70.30	69.73	67.56	66.15	1.50	1.50	1.50	2.04	2.04	1.70
WA	65.70	65.70	65.90	66.09	65.06	63.45	3.00	2.90	2.80	3.45	3.44	3.40
WI	63.60	64.10	64.30	64.75	64.72	64.78	1.30	1.40	1.30	1.60	1.47	1.19
WV	64.40	63.00	64.30	64.65	65.84	64.94	3.40	3.80	3.70	4.39	4.61	4.73
WY	62.00	63.50	62.70	68.51	67.29	66.80	1.00	1.30	1.20	2.35	2.56	1.35
US	63.90	64.70	65.40	65.24	65.44	65.32	2.50	2.60	2.60	2.89	2.86	2.72

Dementia & Other Psychological Diagnoses

Table 17 shows the percent of residents that were reported by facilities and states with having a dementia diagnosis. The average percent of residents reported with dementia increased from 45.40 percent in 2005 to 46.36 percent in 2010. The percent varied from 35.19 percent in Nevada to 55.45 percent in Michigan in 2010.

The percent of residents with other psychiatric conditions such as schizophrenia, mood disorders, and other problems is reported in Table 17. Other psychiatric conditions increased from 19.70 percent of residents in 2005 to 24.13 percent in 2010 (a 22 percent increase). The percentage of conditions varied from 4.89 percent in Hawaii to 36.42 percent in Louisiana in 2010.

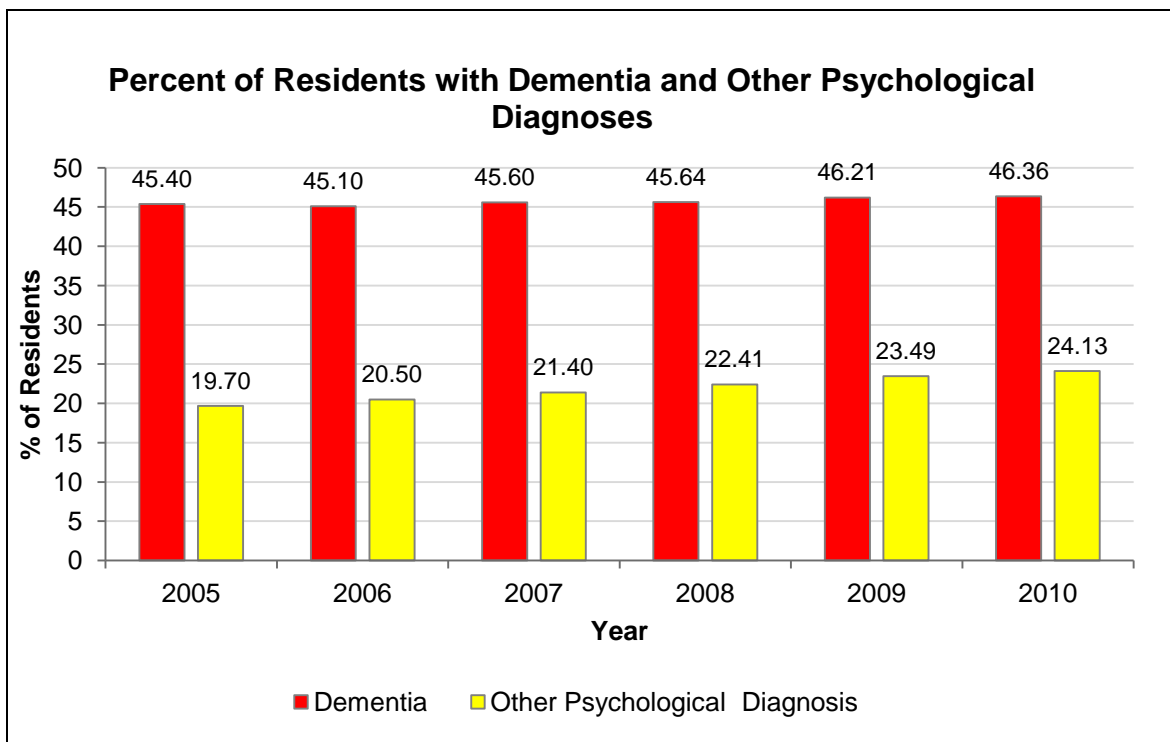


TABLE 17
PERCENT OF RESIDENTS
WITH DEMENTIA AND OTHER PSYCHOLOGICAL DIAGNOSES

State	Dementia						Other Psychological Diagnosis					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	48.80	54.40	52.20	51.85	49.41	47.16	18.70	14.70	11.70	15.92	13.57	14.02
AL	52.40	52.90	50.70	51.46	54.21	52.31	24.50	24.90	25.20	26.43	28.89	29.36
AR	38.20	38.60	39.80	38.09	40.88	44.76	18.50	18.80	18.20	20.11	20.41	22.86
AZ	43.30	42.30	42.00	41.94	43.02	39.09	14.70	17.80	17.30	18.05	18.46	18.69
CA	39.10	38.60	39.20	38.30	39.27	38.72	19.20	19.70	20.40	20.97	21.80	21.86
CO	44.20	43.60	46.30	45.25	43.38	45.19	14.90	15.20	15.80	16.23	17.18	17.42
CT	45.80	46.30	47.20	48.92	50.07	49.91	13.20	15.20	15.10	16.33	18.04	18.53
DC	44.10	42.20	48.90	52.06	48.70	46.41	17.70	13.50	13.60	15.92	20.13	19.02
DE	47.40	45.40	47.20	45.52	47.22	47.94	19.00	17.30	15.40	14.49	17.69	18.53
FL	44.70	45.80	45.30	46.16	45.96	46.69	19.70	20.60	22.50	23.85	25.34	25.90
GA	46.40	47.60	49.30	49.54	49.70	48.69	18.90	21.70	23.50	23.30	25.49	26.69
HI	53.50	55.00	52.50	52.84	55.00	54.57	7.20	5.70	7.40	5.28	5.27	4.89
IA	47.80	45.80	46.30	46.84	48.55	48.51	17.30	17.70	18.40	19.39	19.87	19.55
ID	44.20	43.60	41.30	44.18	43.92	43.97	14.80	17.50	15.40	18.55	20.99	21.34
IL	41.20	41.20	41.60	42.38	41.84	41.66	23.60	24.10	24.50	25.58	26.02	25.29
IN	45.70	44.40	45.20	46.38	45.20	47.98	17.60	18.80	19.40	20.48	21.58	21.03
KS	45.60	45.90	46.30	46.55	47.35	45.78	22.00	22.40	23.60	23.77	26.11	26.91
KY	47.60	47.80	48.20	49.28	49.89	49.59	22.00	25.10	25.20	26.82	27.62	27.93
LA	42.40	42.70	43.00	42.13	43.75	42.33	27.50	29.30	29.40	32.37	34.35	36.42
MA	49.00	48.70	50.60	50.87	52.83	53.29	20.90	20.90	22.50	22.85	23.51	26.17
MD	40.60	44.00	43.00	42.82	43.35	42.29	16.00	15.60	15.70	16.98	17.17	18.19
ME	56.50	58.20	59.00	57.51	56.26	55.40	16.60	17.40	19.40	21.56	21.15	23.78
MI	55.10	55.50	55.90	55.12	55.24	55.45	16.40	16.60	17.60	18.13	19.32	19.24
MN	40.30	40.00	41.40	41.38	43.84	44.42	18.90	19.80	21.40	21.82	23.66	23.96
MO	42.90	43.70	44.00	43.03	44.39	44.07	20.30	22.80	23.20	24.26	24.90	26.41
MS	52.10	51.90	51.60	49.74	50.12	49.59	26.30	27.40	29.20	30.02	31.60	33.31
MT	42.20	44.80	41.70	41.36	39.54	43.46	13.50	15.40	14.90	17.03	16.39	16.44
NC	45.80	43.90	46.30	44.79	46.01	44.66	15.40	16.10	17.90	19.91	20.66	22.47
ND	51.30	51.60	51.80	53.19	52.60	53.50	19.70	21.90	22.80	25.65	28.09	30.27
NE	41.00	41.30	41.90	40.64	43.50	43.85	20.00	21.40	21.60	22.63	23.80	24.51
NH	51.90	53.40	54.50	56.50	54.57	55.08	19.50	18.90	20.30	22.05	23.82	25.31
NJ	41.90	41.00	41.50	41.96	42.89	43.56	14.80	15.10	15.50	15.57	16.67	16.98
NM	44.30	43.90	44.60	44.08	44.02	46.35	17.00	18.30	16.60	19.05	18.22	20.39
NV	39.40	37.90	38.20	39.04	34.85	35.19	16.30	16.60	20.30	17.14	18.68	19.80
NY	47.10	46.40	45.60	45.75	47.43	48.85	16.50	16.80	17.60	17.89	19.01	19.75
OH	49.70	47.60	47.70	46.37	45.81	45.19	28.80	28.20	28.40	29.27	29.80	30.45
OK	44.60	42.40	42.20	42.88	34.19	43.08	21.40	21.20	22.50	23.14	20.16	24.42
OR	47.10	45.50	45.40	46.31	43.73	44.25	15.00	15.40	17.50	16.49	18.47	17.62
PA	46.70	47.10	46.90	46.95	46.95	47.36	17.30	18.20	18.70	19.87	20.99	21.91
RI	46.10	47.30	46.50	50.03	50.52	50.80	14.50	16.40	17.30	18.11	19.12	18.98
SC	54.30	53.70	55.80	56.64	55.96	55.00	15.10	15.80	18.60	19.60	20.67	22.14
SD	50.30	47.70	50.20	49.74	50.91	52.20	23.60	23.50	24.60	25.23	25.56	23.83
TN	47.80	49.60	49.50	51.64	52.38	51.33	23.00	24.70	26.50	30.54	32.21	32.39
TX	41.60	41.80	42.70	43.59	46.68	47.61	23.40	25.20	25.90	28.23	29.92	30.08
UT	41.00	38.80	38.00	39.91	40.87	37.91	14.20	14.90	16.40	16.51	18.60	18.92
VA	44.50	43.50	44.70	45.10	45.07	44.95	15.30	14.40	16.80	17.01	17.30	19.77
VT	47.60	46.80	52.00	51.71	48.96	51.72	13.80	17.10	18.40	18.34	21.43	20.16
WA	54.40	51.40	50.00	48.69	47.67	45.37	15.30	18.70	18.80	21.04	21.66	21.02
WI	46.90	47.20	47.30	48.52	49.04	47.88	16.00	16.30	17.50	17.15	19.12	20.09
WV	49.80	48.90	51.10	51.86	53.79	52.82	25.20	24.90	29.20	30.83	34.68	34.88
WY	43.10	44.00	44.50	45.32	48.98	46.61	11.00	13.80	13.50	13.88	15.42	15.40
US	45.40	45.10	45.60	45.64	46.21	46.36	19.70	20.50	21.40	22.41	23.49	24.13

Pressure Sores and Skin Care

Pressure ulcers (or bedsores) are areas of the skin and underlying tissues which erode as a result of pressure or friction and/or lack of blood supply. The severity of the ulcer ranges from persistent skin redness (without a break in the skin) to large open lesions which can expose skin tissue and bone. Table 18 shows the percent of residents in facilities with pressure sores declined from 7.40 percent in 2005 to 6.46 percent in 2010 (by 13 percent). The percent ranged from 3.95 percent in Minnesota to 9.47 percent in Nevada in 2010. The acquiring of pressure sores in the facility is considered an indicator of poor quality of care.

Special skin care is non-routine care according to a resident care plan or physician's order, usually designed to prevent or reduce pressure ulcers of the skin. In 2005, 72.90 percent and in 2010, 76.17 percent of nursing facilities reported providing special skin care to residents, ranging from 54.37 percent in Oklahoma to 87.00 percent in Nebraska (See Table 18). Thus, as expected, the rate of such care is higher than the percent of actual pressure sores reported by facilities.

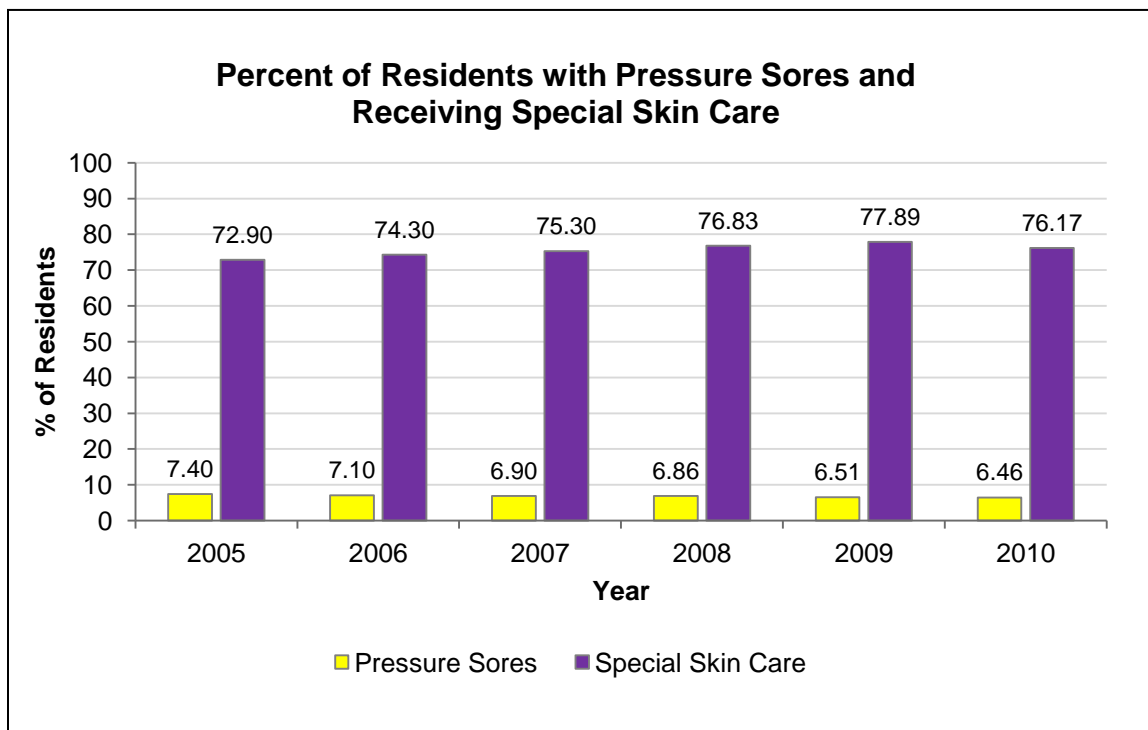


TABLE 18
PERCENT OF RESIDENTS
WITH PRESSURE SORES AND RECEIVING SPECIAL SKIN CARE

State	Pressure Sores						Special Skin Care					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	5.10	3.80	6.10	8.58	7.33	5.44	89.80	78.40	78.60	83.86	78.15	75.68
AL	6.60	6.80	6.40	5.72	5.66	5.55	79.90	81.40	81.20	84.90	85.41	86.64
AR	6.90	6.80	6.60	6.79	6.01	6.00	81.60	77.10	78.20	78.95	81.97	77.50
AZ	7.90	7.40	8.60	8.33	7.72	7.67	70.50	72.30	77.70	78.59	76.74	73.51
CA	8.60	8.70	8.60	8.36	7.73	7.44	63.50	63.40	64.50	65.18	66.41	63.91
CO	5.50	5.50	6.00	6.04	5.21	5.14	75.50	77.50	75.70	79.42	78.26	76.51
CT	6.00	5.40	5.60	5.40	4.81	4.92	61.90	62.10	60.30	61.69	62.69	59.35
DC	10.00	9.40	9.60	8.29	6.18	7.98	83.90	76.20	81.70	80.18	85.92	75.77
DE	7.60	7.20	7.30	5.96	5.04	5.33	76.60	73.90	77.50	75.68	82.50	80.05
FL	7.70	7.40	7.10	7.06	7.00	7.20	77.90	80.00	79.60	80.81	81.92	80.30
GA	7.40	7.70	7.30	6.94	6.72	6.72	74.80	76.80	80.30	79.21	81.19	79.05
HI	7.00	6.90	6.70	6.03	5.81	5.23	68.70	79.90	83.40	81.22	81.46	86.10
IA	4.80	4.40	4.00	4.33	4.35	4.52	71.50	72.60	76.40	77.21	81.83	77.56
ID	5.10	5.70	5.10	5.12	5.37	5.40	76.30	79.20	80.20	82.97	81.88	78.41
IL	7.50	7.30	7.10	7.10	6.85	6.74	73.20	75.30	78.10	78.52	81.26	78.15
IN	7.60	7.30	7.10	6.82	6.40	6.12	69.10	72.40	75.20	78.27	80.42	79.02
KS	5.90	5.30	5.40	5.15	4.91	4.78	67.80	69.00	70.40	71.10	70.08	66.86
KY	8.80	7.70	7.70	7.71	7.24	7.24	74.50	74.10	76.40	79.51	78.36	78.34
LA	10.10	9.50	8.90	8.42	8.21	7.99	68.40	73.10	74.30	77.76	80.03	78.39
MA	6.20	6.10	5.60	5.61	5.12	4.92	76.20	75.20	77.80	79.44	81.30	78.63
MD	8.80	8.60	8.30	9.56	8.39	7.83	73.20	77.20	79.30	77.34	80.74	81.30
ME	7.80	7.30	7.50	7.24	5.75	6.23	78.10	76.10	80.40	82.25	80.30	78.07
MI	7.40	7.00	6.70	6.92	6.24	6.54	76.40	77.50	77.10	78.75	78.20	77.16
MN	4.70	4.30	3.90	4.19	4.00	3.95	70.70	76.30	77.10	79.44	79.85	76.45
MO	6.60	6.30	6.10	5.96	6.03	5.66	70.50	69.20	72.70	72.54	73.80	69.17
MS	7.80	7.70	7.30	7.55	6.46	7.05	79.70	81.50	83.70	85.59	85.62	82.32
MT	5.70	5.50	4.90	5.42	5.09	4.66	72.90	70.80	75.20	75.94	80.61	79.76
NC	9.00	8.30	8.10	7.85	7.70	7.69	76.50	76.00	75.10	75.93	76.11	76.04
ND	3.90	3.50	3.60	3.90	4.12	4.28	74.30	74.90	81.80	80.20	83.16	81.57
NE	4.30	4.30	4.00	4.27	4.32	4.16	84.20	86.10	82.40	87.95	87.88	87.00
NH	5.10	5.00	4.90	4.42	4.40	5.12	79.20	79.00	79.30	83.94	83.99	81.06
NJ	8.30	8.50	8.20	7.86	7.72	7.23	62.10	65.20	66.40	70.87	71.96	70.55
NM	7.10	7.40	7.30	8.14	7.25	7.23	70.70	77.30	76.00	76.37	77.01	70.28
NV	9.10	7.70	7.70	8.29	7.92	9.47	72.90	73.00	77.60	75.76	71.31	72.24
NY	8.40	8.10	7.60	7.41	7.32	7.22	72.70	72.40	72.80	76.22	77.24	77.14
OH	6.60	6.50	6.10	6.29	6.10	6.03	83.70	84.90	85.00	84.87	86.43	84.27
OK	8.40	8.40	8.20	7.52	5.17	6.71	57.60	57.60	57.90	57.55	45.14	54.37
OR	8.60	7.80	7.50	8.40	7.75	8.36	72.70	71.30	73.50	76.51	76.26	77.71
PA	8.30	7.90	8.00	7.99	7.31	7.40	80.00	82.90	82.40	85.06	85.17	84.41
RI	6.80	6.10	5.40	6.22	5.58	4.84	65.40	71.40	73.60	76.76	76.39	74.70
SC	9.30	8.60	7.60	7.94	7.34	7.84	78.80	79.70	82.00	82.05	84.71	81.45
SD	5.10	4.90	4.80	4.52	4.52	4.30	80.20	82.40	79.90	84.88	84.41	84.23
TN	7.60	7.40	7.30	6.85	6.71	6.38	74.20	75.50	73.60	78.97	78.15	80.50
TX	7.70	7.60	7.20	6.97	7.11	7.28	69.40	71.90	70.20	71.46	73.15	72.21
UT	6.50	6.80	6.50	7.96	5.49	5.77	78.40	76.70	82.10	78.37	82.43	78.26
VA	9.50	8.00	8.10	7.87	7.93	7.20	71.80	75.00	76.00	77.96	79.27	76.69
VT	6.50	5.60	6.30	4.65	5.12	4.43	82.20	79.60	80.90	79.52	81.86	76.33
WA	7.40	7.50	7.80	7.70	8.01	6.94	76.40	76.40	76.00	80.32	81.12	77.15
WI	5.60	5.50	5.40	5.17	5.33	5.06	68.00	69.30	73.30	75.02	79.16	76.33
WV	8.80	7.90	8.10	8.39	7.56	7.26	86.20	85.40	85.20	83.55	86.52	86.59
WY	5.90	7.70	5.90	6.79	5.87	4.60	71.40	61.40	65.80	72.92	77.73	75.61
US	7.40	7.10	6.90	6.86	6.51	6.46	72.90	74.30	75.30	76.83	77.89	76.17

Rehabilitation and Other Special Treatments

Rehabilitation services are provided under the direction of a rehabilitation professional (physical therapist, occupational therapist, etc.) to improve functional ability. In 2005, 20.10 percent of residents in nursing facilities received such services and this was 26.19 percent in 2010 (See Table 19) (a 24 percent increase). These services varied from 11.54 percent of residents in North Dakota to 38.82 percent in Utah in 2010. These trends may have been related to changes in the Medicare prospective payment system for nursing facilities.

Ostomy care includes special care for a skin opening to the intestinal and/or urinary tract such as a colostomy (opening to the colon). Such care was provided to 4.30 percent of nursing facility residents in 2005 and increased to 4.37 percent in 2010 (See Table 19).

**TABLE 19
PERCENT OF RESIDENTS
RECEIVING REHABILITATION AND OSTOMY CARE**

State	Rehabilitation						Ostomy Care					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	15.60	17.70	22.40	17.47	18.95	15.56	6.50	5.80	5.00	4.21	6.13	5.35
AL	18.70	19.00	20.70	21.44	22.36	21.10	6.80	6.50	6.90	6.86	6.81	6.26
AR	16.60	17.10	18.50	19.19	18.33	18.22	4.20	4.20	5.20	4.60	4.40	4.10
AZ	21.30	20.90	24.30	26.45	29.40	31.94	3.50	2.80	2.40	3.94	3.68	3.12
CA	19.80	21.30	22.30	23.59	24.61	25.19	7.20	7.20	7.00	7.84	7.99	7.33
CO	19.50	21.70	22.20	24.45	25.39	26.37	3.00	3.10	3.10	3.54	3.48	2.97
CT	20.30	20.50	22.00	23.03	23.86	24.33	2.20	2.10	2.20	2.29	2.33	2.50
DC	22.70	25.00	23.00	22.98	19.85	23.55	7.30	6.50	4.90	4.59	3.70	5.68
DE	19.90	23.00	26.50	26.36	29.61	25.83	3.80	3.70	5.50	5.63	3.14	5.37
FL	27.00	28.00	29.70	31.65	34.06	34.56	4.80	4.90	5.40	5.69	5.79	5.21
GA	16.90	17.30	18.40	20.65	21.92	22.62	5.10	5.50	5.60	6.06	6.49	5.80
HI	16.10	16.60	12.40	17.58	17.45	21.34	6.30	8.50	11.70	9.96	11.61	11.42
IA	12.50	13.40	13.90	14.96	15.34	15.76	2.80	2.90	3.00	2.79	3.14	2.90
ID	29.70	27.10	29.20	28.68	28.78	31.88	3.90	3.60	3.00	3.67	4.04	3.54
IL	21.30	22.00	22.40	24.73	25.12	25.82	3.80	4.00	4.20	4.37	4.42	4.09
IN	24.80	25.80	26.90	28.38	30.50	30.55	4.40	4.30	4.10	3.97	3.85	3.50
KS	13.90	14.80	15.60	17.81	18.45	18.39	2.30	2.50	2.40	2.52	2.79	2.73
KY	25.10	26.20	27.50	29.30	29.89	29.36	7.70	7.20	6.80	6.68	6.35	6.16
LA	21.20	22.50	24.90	27.68	28.19	28.46	6.90	6.60	7.20	6.91	7.07	6.36
MA	21.50	21.70	22.70	23.97	24.79	25.62	2.10	2.20	2.00	2.19	2.31	2.18
MD	23.00	24.40	25.40	26.51	27.77	27.39	3.00	3.40	3.50	3.39	4.03	3.87
ME	21.60	22.00	22.70	24.02	24.68	24.98	2.90	3.10	2.60	2.92	2.30	2.47
MI	22.00	22.80	23.60	26.46	27.52	28.49	3.20	3.00	3.10	3.63	4.13	3.70
MN	16.60	15.70	17.00	18.02	19.20	19.81	2.80	2.80	3.00	2.94	3.22	3.17
MO	19.90	20.60	21.20	23.05	23.03	22.56	2.60	2.90	2.70	2.89	2.77	2.39
MS	22.30	23.60	25.50	28.64	28.90	28.37	7.50	7.50	7.60	8.54	8.63	7.90
MT	16.30	13.80	16.10	15.65	14.32	12.74	2.70	2.30	2.50	2.68	3.02	3.01
NC	25.10	24.90	25.60	27.84	29.77	29.93	5.80	5.30	5.40	5.29	5.32	4.27
ND	12.60	12.50	12.60	12.87	15.12	11.54	3.60	3.20	3.20	3.39	3.94	3.21
NE	15.50	15.50	17.00	18.26	19.57	19.19	3.60	3.80	4.10	4.08	4.19	4.13
NH	21.00	21.60	23.90	25.22	28.53	28.22	1.80	2.10	2.20	2.39	2.56	2.81
NJ	23.70	25.00	25.30	25.93	27.30	29.83	3.90	4.10	4.10	4.09	4.46	4.39
NM	23.30	22.50	23.70	24.85	27.15	27.28	2.20	2.40	2.70	3.25	3.67	2.89
NV	24.00	21.80	27.80	29.00	31.89	34.71	6.80	5.20	4.70	6.94	5.56	5.78
NY	18.30	18.40	18.70	20.15	21.97	21.95	5.00	4.90	4.70	5.00	5.18	4.56
OH	24.80	25.60	27.10	28.71	28.87	28.08	5.80	5.70	5.40	5.60	5.54	5.10
OK	16.70	15.50	17.80	16.72	13.37	16.75	3.00	3.10	2.90	2.93	2.16	2.93
OR	22.10	23.60	24.10	27.28	28.33	28.33	3.20	3.50	3.10	3.56	3.67	3.37
PA	27.00	27.10	29.30	31.10	31.91	32.61	3.40	3.30	3.60	3.47	3.47	3.39
RI	18.70	18.10	18.90	20.94	22.21	21.39	2.30	2.20	2.60	2.36	2.57	2.12
SC	24.00	27.40	27.50	28.03	28.65	31.00	4.80	4.80	5.30	5.65	5.69	5.71
SD	9.10	11.90	11.60	12.38	12.68	13.99	2.90	2.90	3.50	3.27	3.38	2.81
TN	24.60	24.90	26.20	27.51	28.74	28.95	3.00	3.30	3.40	3.70	3.65	3.39
TX	19.30	20.50	21.20	22.97	26.52	27.47	4.10	4.30	4.10	4.32	4.95	4.97
UT	33.40	33.70	31.90	34.83	36.09	38.82	2.10	2.00	2.80	2.42	1.79	2.18
VA	25.10	24.00	25.70	26.98	28.75	29.26	5.50	5.60	5.10	5.17	4.69	4.41
VT	14.00	15.00	18.40	19.38	22.01	23.29	3.60	3.40	3.10	3.06	3.30	2.67
WA	24.00	25.60	25.50	28.35	29.68	31.19	4.40	4.30	4.50	4.27	4.27	4.28
WI	20.40	20.60	22.60	24.47	26.55	26.85	2.80	2.50	2.80	2.60	2.83	2.85
WV	26.00	27.40	27.50	29.53	30.52	31.81	5.90	5.50	5.00	5.18	5.40	5.34
WY	18.50	21.00	22.10	20.67	20.88	22.50	1.60	1.40	1.30	1.65	1.81	2.04
US	21.10	21.90	23.00	24.57	25.72	26.19	4.30	4.30	4.40	4.56	4.67	4.37

Injections and Intravenous Therapy

Injections are provided by facilities for a variety of medications. In 2005, 16.70 percent of residents in facilities were receiving injections compared with 21.24 percent in 2010 (See Table 20). The percent receiving injections ranged from 14.42 percent in Iowa to 26.71 percent in West Virginia in 2010.

Intravenous therapy and/or blood transfusions are used to provide fluid, medications, nutritional substances, and blood products for residents. The percent of residents reported receiving such therapy in nursing facilities was 2.30 percent in 2005 and 2.19 percent in 2010, with a range of 0.94 in the Alabama and Vermont and 8.21 in Nevada, respectively.

**TABLE 20
PERCENT OF RESIDENTS
RECEIVING INJECTION AND INTRAVENOUS THERAPY**

State	Injections						Intravenous Therapy					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	14.00	16.70	18.90	20.48	24.56	22.89	4.60	3.30	4.00	3.96	3.08	1.76
AL	17.30	18.60	20.30	20.06	21.55	21.32	1.10	1.20	1.50	1.66	1.27	0.94
AR	15.70	16.70	17.20	18.56	18.50	18.41	2.60	2.70	2.80	1.93	2.39	2.05
AZ	17.60	20.00	21.70	22.12	24.11	24.95	2.50	3.30	2.90	3.57	3.90	4.38
CA	17.90	20.20	21.00	22.23	23.43	23.49	3.40	3.40	3.10	3.27	3.07	2.88
CO	15.00	15.80	15.30	16.48	15.80	17.13	1.30	1.80	2.20	2.29	2.43	2.44
CT	15.80	16.60	16.90	18.98	18.12	18.14	1.10	1.10	1.20	1.11	1.12	1.21
DC	18.00	23.90	22.70	21.28	21.03	25.30	1.80	1.80	1.00	0.53	1.67	2.30
DE	19.40	19.30	19.00	19.89	20.21	18.32	2.00	2.90	2.50	2.53	1.49	1.16
FL	20.00	21.10	21.60	23.71	24.27	24.48	2.20	2.20	2.10	2.21	2.44	2.28
GA	18.30	19.80	21.50	22.43	23.16	23.18	1.70	1.70	1.30	1.60	1.93	1.78
HI	16.40	16.00	15.60	15.20	14.74	17.36	5.70	3.10	2.20	1.94	3.46	2.87
IA	13.70	14.80	13.90	15.23	14.21	14.42	2.00	2.50	2.00	3.05	1.87	1.79
ID	19.10	19.40	22.10	23.61	25.60	24.11	3.30	3.60	3.70	2.76	3.46	2.62
IL	17.50	18.60	20.30	21.14	21.58	21.60	2.80	2.30	2.50	2.67	2.68	2.34
IN	18.70	20.90	21.40	22.53	23.07	22.05	2.30	2.70	2.90	2.89	3.10	2.66
KS	14.20	15.40	16.90	18.69	18.56	17.63	1.70	1.50	1.70	1.82	1.94	1.01
KY	20.10	21.30	21.70	23.40	24.48	24.28	3.30	3.70	3.20	2.34	2.34	2.38
LA	17.60	18.10	20.50	20.75	21.75	21.40	4.80	3.90	4.70	4.38	5.17	4.75
MA	14.10	14.80	15.50	16.83	17.18	17.03	1.40	1.50	1.10	1.42	1.23	1.25
MD	20.80	23.80	23.60	24.53	24.40	24.39	2.60	4.00	3.40	3.78	2.81	2.59
ME	15.90	17.20	18.20	18.66	19.26	18.10	1.10	1.10	1.10	1.34	2.47	1.18
MI	17.10	18.20	18.90	21.05	21.53	21.69	1.50	1.80	1.80	2.15	2.11	2.01
MN	16.10	16.90	17.20	17.65	18.61	18.21	1.60	1.60	1.50	1.58	1.67	1.62
MO	16.60	18.20	19.40	19.36	20.06	20.61	2.10	2.30	2.20	2.28	1.75	1.41
MS	19.90	21.00	21.90	23.17	22.73	23.80	1.90	2.10	2.50	2.20	1.72	1.83
MT	15.70	16.10	18.20	19.65	16.78	16.08	2.60	3.00	2.80	2.70	2.60	1.64
NC	21.60	23.00	24.10	26.00	25.51	24.56	2.20	2.20	2.60	3.13	3.08	2.65
ND	16.20	17.50	18.20	18.31	19.33	17.78	2.20	2.90	2.60	2.25	3.24	2.64
NE	14.10	13.80	15.60	16.38	17.03	15.16	0.90	1.80	1.50	2.01	1.66	1.17
NH	14.50	14.40	15.70	16.09	17.29	16.62	0.70	0.70	0.80	0.95	1.13	0.99
NJ	16.30	17.50	17.80	19.55	20.69	20.42	1.70	1.60	1.80	1.87	2.50	2.15
NM	16.30	17.80	18.50	18.59	21.41	20.55	2.30	2.30	3.40	3.17	4.39	3.10
NV	20.70	18.20	24.00	25.53	22.38	24.54	5.00	3.50	5.70	6.32	5.23	8.21
NY	15.70	16.80	17.90	18.46	19.77	19.24	1.00	1.30	1.30	1.45	1.56	1.64
OH	21.10	21.40	22.80	24.26	24.66	24.58	2.50	2.70	2.20	2.47	2.43	2.23
OK	15.00	15.40	17.30	17.66	14.36	19.51	2.00	2.10	2.30	2.22	1.76	2.25
OR	16.80	18.50	17.90	20.04	18.30	19.10	2.20	2.20	2.10	2.14	3.22	2.46
PA	19.80	20.70	21.70	22.95	23.56	23.60	3.10	2.60	2.80	2.39	2.36	2.16
RI	16.00	15.80	16.00	14.55	16.40	15.78	1.50	1.20	2.00	2.08	2.60	2.16
SC	16.50	17.70	18.60	18.51	20.86	19.42	2.30	1.90	1.90	1.78	1.67	1.78
SD	14.00	16.20	16.90	17.48	17.30	15.69	1.30	1.10	1.40	1.73	1.81	1.06
TN	21.60	21.40	23.50	24.34	24.82	24.04	2.70	2.40	2.90	2.47	2.75	1.98
TX	17.50	18.40	19.70	20.92	21.14	21.25	1.90	2.10	2.10	2.12	2.57	2.24
UT	19.90	18.90	18.70	21.92	22.34	24.62	4.50	4.20	3.60	3.51	4.14	5.89
VA	19.80	20.10	21.50	22.64	23.01	22.82	2.40	2.10	2.10	2.06	2.07	2.05
VT	14.20	14.20	16.70	16.72	18.25	15.74	1.10	1.50	1.20	1.20	1.42	0.94
WA	19.70	22.00	22.50	22.61	23.07	21.33	2.60	2.40	3.30	3.15	3.73	2.72
WI	15.70	16.20	17.00	16.91	18.48	18.53	1.50	1.40	1.50	1.65	1.45	1.56
WV	23.10	22.70	23.70	25.20	25.73	26.71	4.70	5.80	6.00	5.80	5.98	5.20
WY	13.30	11.80	15.70	16.58	15.33	16.50	2.10	2.20	1.60	3.27	4.91	2.00
US	16.70	18.80	19.80	20.86	21.31	21.24	2.30	2.30	2.30	2.39	2.43	2.19

Tube Feeding

Tube feedings are sometimes used to provide nutritional substances to residents into the gastrointestinal system. Table 21 shows that in 2005, 6.00 percent of residents were receiving tube feedings compared with 5.33 percent in 2010. The percent varied from 1.11 percent in South Dakota to 13.68 percent in Hawaii in 2010.

Respiratory Therapy

Respiratory treatment is provided for respirators/ ventilators, oxygen, inhalation therapy, and other treatment. In 2005, 12.70 percent of facility residents received treatment compared to 15.11 percent in 2010 (See Table 21). Wyoming reported 32.87 percent of residents receiving respiratory treatment compared to 9.18 percent in Hawaii in 2010.

TABLE 21
PERCENT OF RESIDENTS
RECEIVING TUBE FEEDING AND RESPIRATORY TREATMENT

State	Tube Feeding						Respiratory Treatment					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	7.30	5.80	6.60	5.85	6.71	5.41	11.20	6.70	8.30	9.41	11.51	11.24
AL	11.00	10.10	9.30	9.26	9.09	8.67	12.80	13.40	14.10	14.64	15.99	15.86
AR	6.10	5.90	5.80	5.18	4.85	4.97	11.30	11.30	13.00	12.79	12.73	14.58
AZ	4.70	3.60	3.80	4.21	4.77	4.52	13.70	14.20	14.10	16.81	19.36	19.56
CA	12.20	12.10	11.50	11.74	11.85	11.96	12.40	12.80	12.60	13.43	14.20	14.94
CO	3.10	3.00	2.80	2.83	2.59	2.32	25.90	26.80	27.50	28.18	28.54	28.69
CT	3.30	3.20	2.90	3.09	2.81	2.79	10.50	11.30	11.10	11.89	12.13	13.34
DC	9.40	9.20	9.10	9.01	8.31	9.52	6.50	7.90	7.70	8.23	8.46	10.76
DE	7.90	6.80	7.40	7.48	6.35	5.64	12.20	14.60	16.20	13.23	13.88	13.66
FL	6.90	7.20	6.80	6.75	6.88	6.62	14.00	15.10	14.90	15.00	16.05	16.86
GA	7.60	7.60	7.30	7.58	7.42	7.05	10.30	11.60	11.60	12.36	13.46	13.92
HI	12.30	12.50	13.40	13.28	13.95	13.68	5.90	5.60	6.50	7.98	10.70	9.18
IA	2.20	2.30	2.00	2.14	2.01	1.93	11.50	12.70	12.80	14.24	13.79	13.80
ID	3.50	2.70	2.00	2.33	2.82	2.51	22.70	23.70	21.80	23.49	24.65	22.47
IL	4.20	4.30	4.10	4.11	4.00	4.04	10.40	10.60	10.80	11.78	11.89	12.48
IN	4.80	4.80	4.60	4.59	4.15	4.00	12.60	13.80	13.60	14.65	14.37	14.21
KS	2.10	2.10	2.00	1.95	2.02	2.04	12.10	12.50	13.50	14.30	15.16	14.98
KY	8.80	8.30	7.90	7.45	6.99	7.08	17.30	17.30	17.70	18.74	19.54	19.08
LA	8.80	8.20	8.30	7.95	7.67	7.65	8.70	8.70	8.80	9.43	9.70	10.43
MA	3.30	3.30	3.30	3.48	3.31	3.14	10.90	10.30	10.70	11.50	11.01	11.45
MD	7.80	7.70	7.60	7.41	7.41	7.25	11.00	12.30	12.50	12.98	12.73	12.50
ME	2.50	2.30	2.50	2.56	1.97	1.59	12.20	11.50	13.20	13.19	12.35	13.16
MI	5.10	5.00	5.20	4.87	4.98	4.88	11.00	11.80	12.30	13.07	13.46	14.38
MN	2.00	2.20	2.00	1.92	1.91	2.01	12.00	11.30	12.00	12.57	13.42	13.63
MO	3.70	3.50	3.40	3.22	3.19	3.01	12.50	12.90	13.10	14.24	14.72	13.89
MS	9.70	9.80	9.40	9.65	9.42	8.84	10.10	10.60	10.40	11.99	12.15	13.04
MT	2.70	2.20	2.50	2.09	2.71	2.19	17.90	17.70	17.40	19.29	17.64	18.28
NC	8.70	7.90	7.50	6.83	7.00	6.38	13.30	13.20	13.80	14.46	14.82	15.12
ND	2.20	1.60	1.70	1.58	2.13	2.31	13.40	14.00	13.90	13.96	14.75	13.96
NE	2.60	2.70	2.80	2.87	2.55	2.68	13.10	14.00	13.00	15.05	15.17	15.48
NH	1.90	2.00	1.70	1.13	1.79	1.67	10.60	11.40	11.60	13.99	14.46	14.48
NJ	6.90	6.90	7.00	6.76	6.52	6.59	10.80	10.50	11.90	12.71	13.66	14.25
NM	3.00	2.90	3.10	2.56	2.83	2.26	24.10	24.00	22.70	24.92	26.47	25.74
NV	7.90	7.80	9.80	8.72	7.99	8.30	18.20	20.10	20.40	21.75	24.68	21.09
NY	7.20	7.00	6.80	6.54	6.44	5.92	10.90	11.50	11.60	12.60	12.78	13.15
OH	5.90	5.60	5.30	5.19	5.09	4.77	15.20	15.70	15.90	16.24	16.42	16.47
OK	5.40	5.30	5.30	4.81	3.27	4.10	13.40	13.50	14.40	15.18	12.65	16.71
OR	3.90	4.30	4.10	4.19	3.98	3.95	10.60	9.80	9.90	10.81	11.80	13.16
PA	5.30	4.90	4.90	4.51	4.41	4.37	15.50	15.70	16.30	17.38	17.76	18.71
RI	2.70	2.70	2.60	2.43	2.67	2.24	8.40	8.50	10.30	8.83	10.29	10.29
SC	8.90	7.60	7.50	7.41	6.90	6.44	10.70	11.30	10.60	11.31	12.09	11.93
SD	1.90	1.90	1.60	1.52	1.55	1.11	12.60	13.40	13.10	13.92	14.71	14.89
TN	6.60	6.40	5.90	6.00	5.48	5.01	13.40	13.70	14.50	15.62	16.79	15.93
TX	7.30	7.00	7.00	6.76	6.62	6.38	11.20	11.90	12.10	12.80	13.28	14.02
UT	2.30	2.60	3.00	2.70	2.35	1.88	24.60	25.10	25.30	29.60	27.34	29.16
VA	6.90	6.50	6.50	6.46	6.06	5.81	15.10	14.60	15.80	15.70	16.16	15.97
VT	2.10	2.40	2.40	2.18	1.97	2.18	10.60	11.40	10.50	10.89	12.41	12.36
WA	4.90	4.80	4.50	4.49	4.53	4.45	13.20	13.40	12.80	14.30	14.20	15.08
WI	2.70	2.70	2.70	2.44	2.62	2.43	10.90	11.70	12.20	13.06	14.25	14.28
WV	5.40	4.80	4.30	4.71	4.24	4.07	16.80	15.50	16.10	18.30	18.56	18.07
WY	1.60	1.00	0.80	1.79	1.23	1.27	24.20	31.80	26.60	26.72	32.74	32.87
US	6.00	5.80	5.70	5.60	5.48	5.33	12.70	13.20	13.40	14.30	14.72	15.11

Urinary Incontinence and Bladder Training

Bladder or urinary incontinence more often than one time a week is a common problem in nursing facility residents. Table 22 shows that 53.70 percent of all residents were reported to have this problem in 2005 compared with 55.67 percent in 2010. This percentage ranged from 47.48 percent in Illinois to 69.58 percent in Maine in 2010.

Bladder training programs are designed to assist residents to gain control and maintain bladder control (such as by pelvic exercises or frequently toileting). Table 22 shows that the percent of residents with training programs in the U.S. ranged from 5.80 percent in 2005 to 7.36 percent in 2010. In 2010, the percent of facilities with toileting programs varied from 1.52 percent in Arizona to 20.44 percent in Maine. The discrepancy between the high percentage of residents with incontinence problems and the low percentage of training programs is notable.

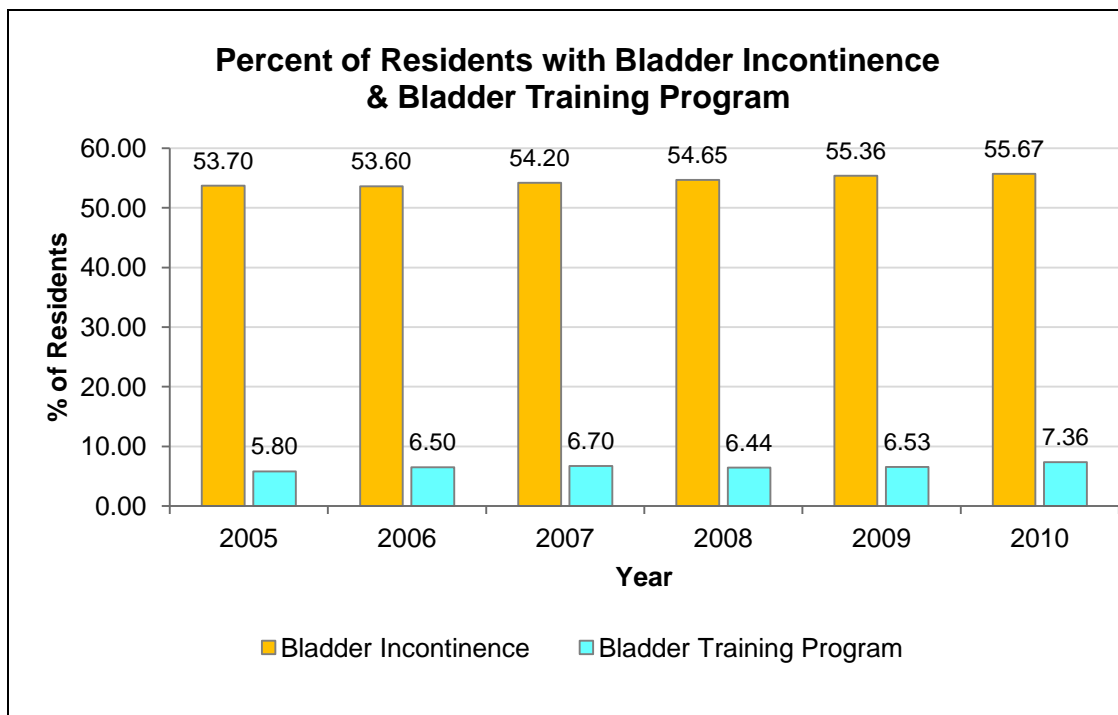


TABLE 22
PERCENT OF RESIDENTS
WITH BLADDER INCONTINENCE & IN BLADDER TRAINING PROGRAM

State	Bladder Incontinence						Bladder Training Program					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	60.60	55.30	55.50	55.28	57.37	57.06	1.90	8.40	1.90	5.40	5.27	3.28
AL	55.40	56.60	57.00	59.86	59.41	60.95	7.30	8.90	8.90	5.61	6.00	8.31
AR	50.80	51.90	52.20	51.70	55.98	54.29	3.70	3.80	3.00	3.92	4.81	3.92
AZ	50.50	50.50	51.70	51.73	51.42	51.47	2.80	2.20	2.20	1.78	1.45	1.52
CA	52.00	50.80	51.80	51.09	51.80	50.55	2.70	3.20	3.30	2.81	3.18	3.26
CO	50.00	49.90	50.40	49.72	50.87	50.83	3.70	4.80	3.60	3.30	1.50	2.66
CT	52.30	51.60	52.10	52.44	54.49	54.88	3.70	5.80	6.60	6.18	6.87	7.32
DC	59.30	61.70	65.10	59.98	62.03	66.09	2.00	3.90	3.50	3.64	5.13	9.78
DE	61.00	58.20	58.80	59.34	59.07	58.49	13.80	14.50	12.30	8.79	8.90	14.42
FL	52.80	53.60	54.70	54.55	54.45	54.59	6.20	7.10	6.30	7.13	7.01	7.62
GA	60.80	60.00	60.70	61.16	62.76	61.15	5.20	5.90	7.30	6.11	6.32	6.85
HI	58.60	65.20	64.70	62.82	65.68	63.35	5.70	4.70	4.40	5.54	5.36	4.88
IA	53.40	53.50	54.70	54.52	55.44	56.23	1.70	2.30	2.60	3.01	1.48	1.70
ID	55.80	54.70	53.80	56.33	58.14	58.22	8.30	9.60	9.40	7.79	11.49	6.65
IL	45.40	45.70	46.50	46.59	46.90	47.48	3.30	4.70	4.20	4.40	4.13	5.81
IN	50.30	50.00	50.80	52.01	52.90	53.69	8.90	8.00	8.80	8.66	9.28	10.69
KS	54.30	52.20	54.20	54.48	54.65	55.99	4.10	10.20	12.50	12.65	10.53	12.68
KY	55.10	55.30	55.60	57.12	56.08	56.23	7.30	8.10	8.80	8.85	9.18	9.56
LA	47.50	47.80	48.00	47.05	48.92	49.86	1.60	1.80	1.40	1.69	2.21	2.27
MA	56.70	56.50	58.50	59.18	60.07	59.30	3.90	4.40	4.40	4.89	3.51	4.12
MD	61.50	61.80	59.10	60.37	62.27	62.60	8.30	6.90	10.90	8.95	8.31	10.21
ME	65.80	66.50	65.00	65.48	68.86	69.58	17.50	26.70	25.10	30.54	30.09	20.44
MI	52.80	51.80	52.60	53.30	53.52	54.01	8.10	8.10	7.10	7.05	7.20	9.54
MN	56.80	56.10	55.60	58.34	58.94	59.33	7.30	9.30	8.30	7.87	6.50	9.67
MO	48.20	48.70	49.20	50.58	50.47	50.67	5.10	5.50	6.40	5.82	5.91	5.46
MS	51.80	53.20	54.70	54.77	56.18	57.58	1.50	1.40	2.10	1.51	1.89	1.93
MT	51.20	51.90	55.20	56.54	57.19	56.27	4.10	3.90	3.50	4.74	4.94	5.45
NC	57.70	57.20	59.10	59.06	59.51	61.24	6.30	5.20	4.80	5.02	5.34	5.31
ND	53.50	55.10	53.50	55.05	56.89	58.41	5.50	3.80	4.50	5.96	4.58	4.79
NE	55.20	54.50	55.20	55.30	56.40	58.09	5.50	4.70	6.40	6.14	6.09	6.56
NH	54.70	54.50	54.90	53.78	57.05	56.53	13.40	19.20	17.70	14.40	14.85	11.37
NJ	50.80	51.20	51.40	51.78	51.36	52.58	5.10	4.50	5.10	4.75	5.53	5.46
NM	52.80	53.80	53.30	55.50	55.80	55.51	4.50	2.40	3.20	2.88	2.33	7.07
NV	54.00	50.10	53.90	50.42	49.12	49.53	8.00	4.60	4.80	4.15	3.87	2.02
NY	59.80	59.80	59.50	59.25	59.75	60.54	5.00	5.20	4.60	4.42	3.33	4.02
OH	50.20	50.60	50.80	50.06	52.03	51.83	9.80	9.80	9.40	10.08	9.91	12.00
OK	49.30	50.70	49.80	50.38	41.36	51.76	4.40	5.20	4.90	4.81	4.21	6.17
OR	55.20	54.00	54.90	54.90	56.72	59.37	3.40	5.80	3.90	3.76	5.36	7.18
PA	58.20	58.90	58.90	59.27	60.32	60.67	13.10	14.20	15.00	13.47	14.93	16.47
RI	52.90	53.10	51.40	53.68	53.43	52.72	3.90	3.20	4.50	3.77	4.54	4.85
SC	63.90	63.10	64.10	61.97	62.13	61.85	2.60	3.40	3.80	3.36	5.32	3.60
SD	56.30	56.30	56.60	57.43	57.85	58.25	1.00	2.30	5.40	3.82	5.83	9.35
TN	55.40	56.70	57.20	57.15	58.50	57.84	5.00	5.80	6.50	6.85	8.08	10.11
TX	52.70	53.40	54.40	56.09	57.78	57.00	5.00	4.80	4.50	3.71	4.12	4.91
UT	51.20	48.90	49.50	50.74	54.45	52.89	8.20	8.10	8.50	8.90	5.22	8.42
VA	60.20	59.90	61.30	61.11	59.79	60.33	5.90	7.00	6.80	6.01	7.34	7.07
VT	63.20	62.10	63.40	63.75	64.22	67.24	18.90	19.10	20.00	23.43	18.89	10.40
WA	58.70	57.00	57.60	58.85	58.99	57.90	2.90	4.10	2.90	3.28	2.68	5.68
WI	50.60	51.00	51.20	54.11	55.49	56.78	9.80	13.50	15.80	13.99	17.81	17.93
WV	56.40	55.70	55.20	58.25	59.67	57.81	2.50	5.00	3.00	2.97	3.01	1.60
WY	47.90	46.70	49.40	48.78	54.43	52.10	16.90	17.40	14.30	14.68	13.66	12.62
US	53.70	53.60	54.20	54.65	55.36	55.67	5.80	6.50	6.70	6.44	6.53	7.36

Bowel Incontinence and Bowel Training

Bowel incontinence more often than one time a week was also a common problem of nursing facility residents. The prevalence of this problem ranged from 43.00 percent in 2005 to 43.69 percent in 2010 in the U.S (Table 23). The percent varied from 30.21 percent in Iowa to 58.72 percent in Hawaii in 2010.

Bowel training programs are also designed to assist residents to gain and maintain bowel control through the use of diet, fluids, and regular schedules. In the 2005-2010 period, 3.30 to 3.69 percent of residents in nursing facilities had such programs in the U.S (See Table 23). There was also a large discrepancy between the percent of residents with bowel incontinence and the percent of residents who were in training programs.

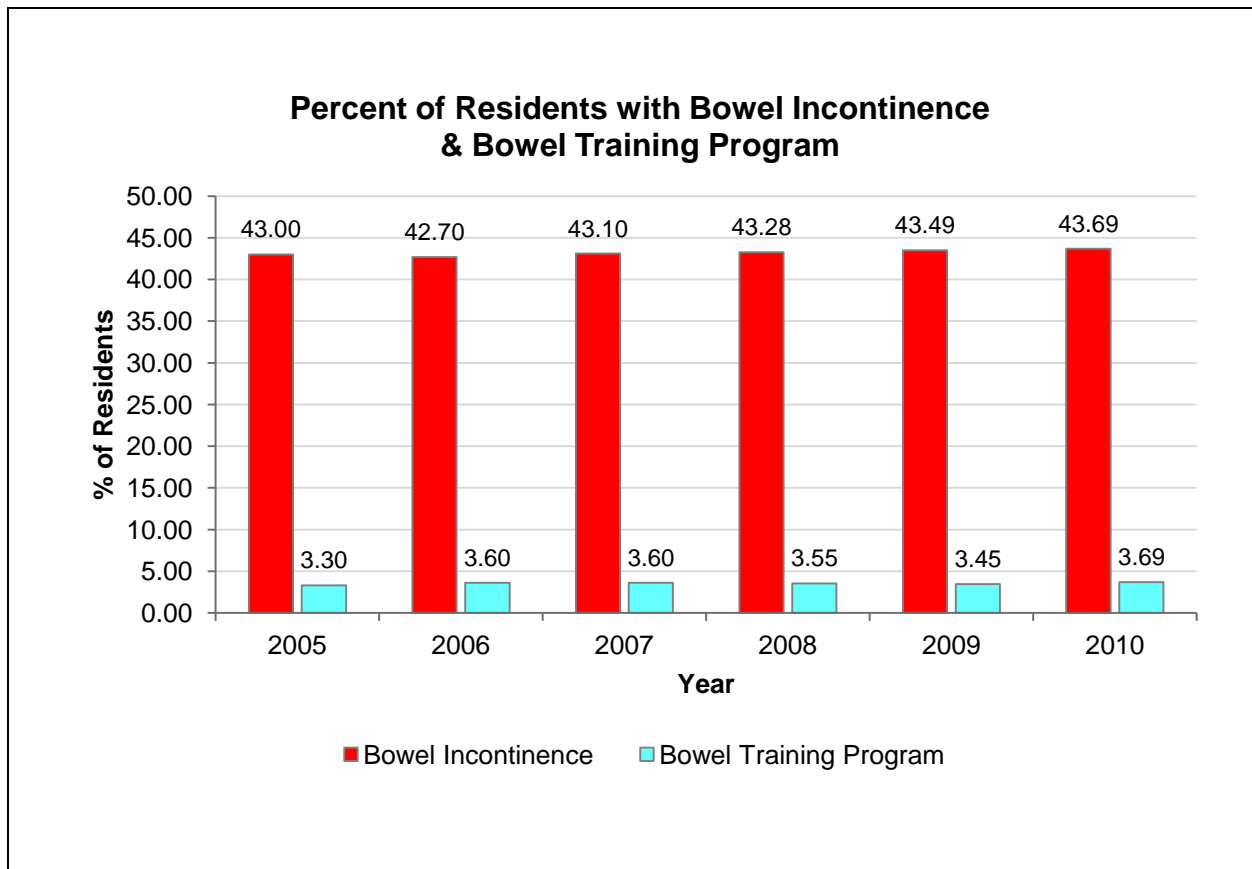


TABLE 23
PERCENT OF RESIDENTS
WITH BOWEL INCONTINENCE & IN BOWEL TRAINING PROGRAM

State	Bowel Incontinence						Bowel Training Program					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	51.80	37.00	42.10	38.45	36.56	48.72	2.70	2.30	6.80	1.90	5.17	4.21
AL	48.50	49.80	51.20	51.58	50.20	52.22	4.20	5.00	6.10	4.03	3.88	5.39
AR	44.50	43.50	44.00	42.10	45.55	43.48	2.50	2.80	2.10	2.57	2.75	3.38
AZ	45.10	45.30	46.30	44.71	45.27	43.17	1.70	2.40	2.00	1.89	1.33	1.08
CA	47.70	46.90	47.80	46.79	46.84	45.14	1.70	1.90	2.20	1.90	2.31	2.29
CO	37.20	35.80	37.10	37.28	37.92	38.35	2.00	2.90	2.90	1.96	0.40	0.96
CT	40.40	39.10	40.10	40.45	41.15	42.35	2.10	2.90	2.40	2.45	2.02	3.15
DC	51.10	53.40	55.70	54.68	55.00	58.21	1.80	2.20	3.80	4.08	5.49	4.61
DE	48.80	45.90	46.50	48.94	48.52	47.72	8.50	7.40	4.20	2.86	3.04	4.03
FL	47.20	48.30	49.50	48.86	48.31	48.34	4.20	5.20	4.40	4.97	4.93	5.26
GA	54.00	53.60	53.80	54.88	56.11	54.40	3.60	4.00	5.60	4.16	4.23	4.58
HI	52.20	57.20	59.70	57.02	60.54	58.72	3.90	5.70	4.60	7.00	4.61	3.78
IA	29.20	28.70	29.30	29.80	30.10	30.21	1.00	1.40	1.50	1.32	0.38	0.72
ID	37.80	33.40	34.50	36.95	38.64	39.59	2.80	4.30	2.80	3.42	4.93	1.66
IL	33.40	32.90	33.20	33.23	33.16	34.14	2.00	2.00	2.00	2.21	1.74	1.76
IN	39.10	39.20	39.30	39.45	39.76	40.63	4.10	3.40	4.20	4.18	4.27	4.52
KS	35.50	33.80	34.10	34.32	33.96	35.35	2.30	4.00	3.90	5.88	5.01	7.17
KY	47.80	46.90	47.40	46.97	46.78	47.05	4.40	5.20	5.40	5.08	5.20	5.16
LA	45.90	45.50	45.70	44.66	45.85	46.64	0.90	0.80	0.70	1.22	1.50	1.56
MA	45.20	44.80	46.30	46.94	46.79	46.41	1.30	1.30	1.20	1.46	0.78	0.84
MD	53.00	53.00	51.00	52.66	52.00	52.75	6.60	6.20	8.50	6.73	6.11	7.26
ME	46.50	45.00	45.40	46.14	47.59	48.86	10.20	12.70	11.30	13.21	16.23	6.64
MI	39.70	38.80	39.00	39.71	40.17	40.16	4.40	4.50	3.70	4.17	3.97	4.84
MN	34.50	33.20	32.80	34.32	35.42	36.89	9.10	10.00	7.60	6.85	5.72	6.75
MO	37.10	37.40	37.90	37.62	36.97	37.22	3.80	4.20	5.20	4.00	3.72	3.57
MS	48.30	48.10	48.70	48.89	49.22	50.05	0.60	1.00	1.30	0.93	0.96	1.35
MT	31.80	32.30	32.90	36.40	34.66	34.57	1.70	2.20	1.80	1.43	2.76	3.02
NC	52.80	52.40	53.80	52.96	54.22	54.28	3.90	2.90	2.40	2.30	2.07	2.56
ND	30.40	30.30	28.60	29.10	30.71	34.72	2.20	2.50	3.10	1.80	0.77	1.69
NE	30.70	29.70	29.20	29.49	30.87	32.60	4.00	5.10	5.20	4.79	3.53	4.04
NH	30.40	31.90	32.70	32.27	34.97	36.89	5.20	10.40	9.30	7.86	7.39	6.58
NJ	41.90	42.90	43.10	42.61	42.03	43.59	3.50	2.90	3.80	3.64	3.72	3.91
NM	44.40	45.50	46.30	46.40	47.71	45.22	2.50	2.30	2.00	1.99	1.35	3.72
NV	49.70	46.20	48.40	46.51	45.07	45.97	6.70	2.50	4.30	3.44	2.50	1.19
NY	49.20	48.70	48.00	48.51	49.00	49.45	2.10	1.80	2.00	2.13	1.65	1.87
OH	37.50	37.60	37.30	37.10	37.55	37.25	3.30	3.20	2.90	3.54	3.17	4.35
OK	41.30	42.50	41.00	40.16	33.03	40.81	3.20	3.60	3.50	3.77	3.20	4.31
OR	46.10	43.70	45.40	45.01	44.99	48.66	2.30	4.70	2.30	2.48	2.77	5.06
PA	46.80	46.30	46.70	46.65	47.53	47.59	6.50	6.60	6.50	6.55	6.54	6.91
RI	37.50	37.60	34.70	38.12	35.95	37.61	1.10	1.30	1.80	2.19	0.97	2.72
SC	59.00	56.70	57.70	56.57	55.39	54.09	1.60	2.50	2.40	1.79	3.90	2.60
SD	30.80	30.30	30.90	31.75	31.73	32.93	0.50	1.00	2.40	1.77	1.03	3.40
TN	49.80	50.20	51.60	51.04	51.53	50.31	3.30	3.50	4.00	4.26	5.69	6.33
TX	47.00	47.30	48.30	49.75	50.58	49.66	2.40	2.40	2.00	1.90	2.09	2.23
UT	35.60	36.20	37.90	37.28	38.67	36.04	4.80	6.20	7.10	5.48	3.40	5.57
VA	53.20	53.10	52.10	52.39	51.61	51.14	4.70	5.20	5.20	4.73	4.70	4.35
VT	42.90	43.90	43.70	45.33	44.81	47.79	16.30	17.40	20.20	17.18	16.97	14.23
WA	44.90	44.10	44.30	46.50	45.85	45.24	2.00	2.60	1.50	1.94	2.00	2.87
WI	31.60	31.20	31.30	33.35	34.68	36.13	4.70	5.80	7.30	6.66	8.55	9.12
WV	48.10	48.00	46.40	49.76	51.72	51.28	1.60	2.10	1.00	1.11	1.14	0.59
WY	29.60	29.00	28.90	29.02	32.81	30.52	13.90	11.00	9.40	10.29	9.61	8.73
US	43.00	42.70	43.10	43.28	43.49	43.69	3.30	3.60	3.60	3.55	3.45	3.69

Catheters

Indwelling catheters are tubes used to drain urine from the bladder. In 2005, about 6.90 percent of facility residents were reported to be using catheters and this declined to 6.01 percent in 2010 (See Table 24). The use of catheters is considered an indicator of poor quality of care.

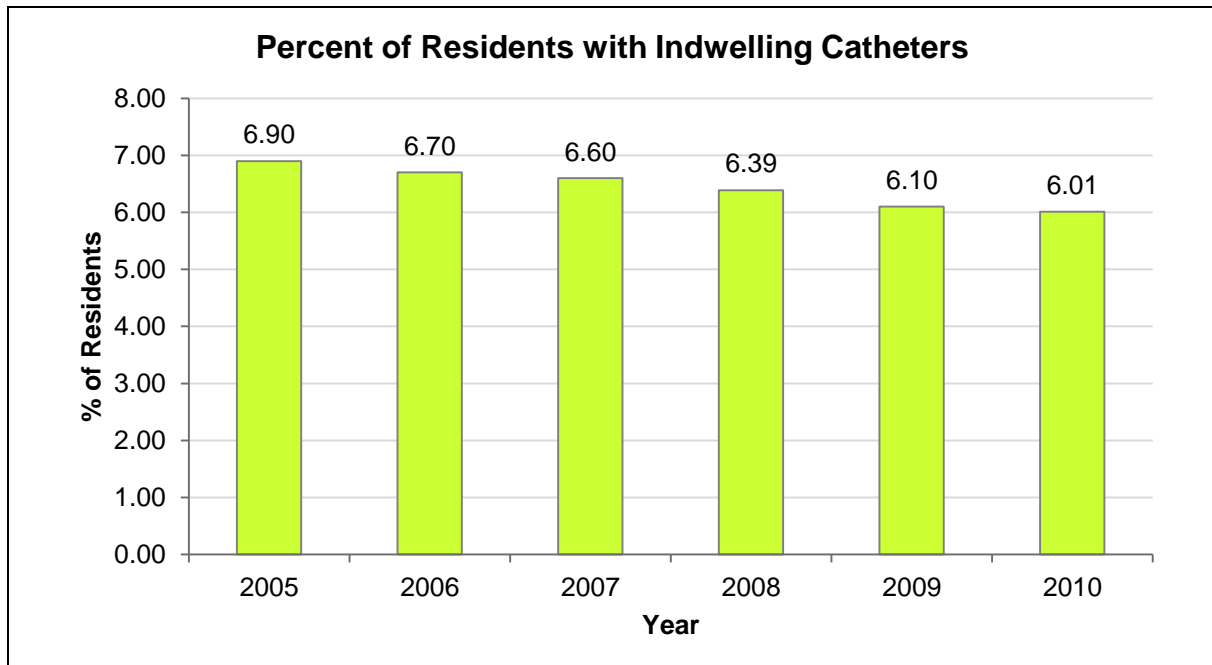


TABLE 24
PERCENTAGE OF RESIDENTS
WITH INDWELLING CATHETERS

State	2005	2006	2007	2008	2009	2010
AK	7.30	6.60	7.70	8.23	8.99	7.87
AL	5.50	5.40	5.30	4.80	4.94	4.77
AR	7.60	6.80	7.20	6.31	5.34	5.67
AZ	8.50	8.60	9.00	8.11	9.68	8.27
CA	8.60	8.40	7.70	7.78	7.14	6.89
CO	8.30	9.10	8.30	8.57	7.90	8.38
CT	4.50	4.30	4.30	4.16	4.09	4.18
DC	5.30	3.50	5.30	4.90	2.96	3.79
DE	5.50	5.10	4.40	3.88	3.81	3.12
FL	6.90	6.60	6.30	6.11	6.08	5.85
GA	5.20	4.90	4.60	4.55	4.46	4.43
HI	5.60	5.10	8.30	5.90	7.66	6.93
IA	6.40	6.30	6.20	6.14	6.25	6.04
ID	7.60	7.10	7.80	7.98	7.51	8.56
IL	6.90	6.50	6.50	6.21	6.07	6.09
IN	7.10	7.40	7.00	6.86	6.35	5.90
KS	5.90	5.50	5.90	5.73	5.44	5.13
KY	8.90	8.40	7.80	7.71	7.54	7.41
LA	10.20	8.70	8.90	7.84	7.78	6.61
MA	5.30	5.20	5.30	5.24	4.92	5.05
MD	5.40	5.50	5.50	5.41	5.71	5.49
ME	7.40	6.60	7.00	6.55	6.06	6.28
MI	5.70	6.00	5.70	5.78	5.39	5.69
MN	5.50	5.20	5.30	5.32	5.34	5.72
MO	5.90	5.50	5.80	5.88	4.97	4.70
MS	7.20	6.30	6.10	5.98	5.41	5.56
MT	7.30	6.90	6.80	7.41	6.86	6.79
NC	6.50	6.10	6.00	5.62	5.92	5.85
ND	6.40	6.30	6.30	5.88	5.89	6.37
NE	7.20	7.00	6.70	7.12	7.23	7.63
NH	5.60	5.70	5.90	5.20	5.70	6.02
NJ	5.70	5.70	5.60	5.46	5.44	5.14
NM	7.90	7.20	7.20	7.47	6.39	6.52
NV	9.40	7.40	9.40	8.23	10.10	10.60
NY	5.50	5.40	5.50	5.32	5.20	5.23
OH	7.20	7.00	6.80	6.82	6.34	6.06
OK	7.90	8.00	8.20	7.07	4.79	6.54
OR	8.90	9.10	9.40	9.52	9.13	8.56
PA	7.00	6.60	6.80	6.59	6.35	6.08
RI	4.70	4.30	4.20	4.22	3.89	3.92
SC	6.30	5.30	4.40	4.55	4.45	4.53
SD	6.00	5.80	6.50	6.69	6.24	6.00
TN	8.00	7.30	7.10	6.86	6.60	5.68
TX	7.20	6.90	6.40	6.20	5.80	5.83
UT	11.00	10.10	9.40	8.81	7.81	8.44
VA	6.50	6.00	5.80	5.34	5.01	5.21
VT	6.90	6.70	6.30	6.23	7.02	7.41
WA	9.00	9.00	8.80	8.71	8.44	8.25
WI	7.00	6.80	6.80	6.89	7.01	6.74
WV	8.30	8.90	8.20	8.20	7.92	7.05
WY	10.50	10.70	8.80	9.19	6.44	7.41
US	6.90	6.70	6.60	6.39	6.10	6.01

STAFFING LEVELS

Background

There is agreement that there is a strong relationship between resident characteristics, nurse staffing time requirements, and nursing costs in nursing homes. Numerous studies have examined these relationships and it is this relationship which serves as the basis for the casemix reimbursement systems used in some states (Fries and Cooney, 1985; Fries et al., 1989; 1994; Schneider et al., 1988).

Not surprisingly, higher staffing levels in nursing homes have been associated with higher quality of care. Nursing homes with more RN hours per patients were associated with positive outcomes such as being alive, having improved physically, being discharged to home, and higher quality of care on a number of measures (Castle & Engberg, 2007; Harrington and colleagues, 2000a,b; Simmons & Schnelle, 2006). Bostick, Rantz, Flesner, & Riggs (2006) and Collier and Harrington (2009) reviewed some of the many studies on the positive relationship between staffing and nursing home quality.

The evidence from these studies led the Institute of Medicine (1996, 2001, and 2004) to conclude that the preponderance of evidence from a number of studies with different types of quality measures shows a positive relationship between nursing staffing and quality of nursing home care. An expert

panel recommended minimum staffing levels of 4.55 hours per patient day, (Harrington et al., 2000a) including all RNs, LVNs, and nursing assistants. See also recommendations by the National Citizens Coalition for Nursing Home Reform (1995).

The Centers for Medicare and Medicaid Services (CMS, 2001) reported that facilities with staffing levels below 4.1 hours per resident day for long stay residents may provide care that results in harm and jeopardy to the residents. A study by Schnelle and colleague (2004) also supports a threshold level of 4.1 total nursing hours per resident day to ensure that the processes of nursing care are adequate.

The level of registered nurse staffing is a growing concern for quality of care because of controls on Medicaid and Medicare reimbursement rates may have negative effects on staffing levels (Swan et al., 2000; IOM, 2001). Grabowski and colleagues have shown the relationship between low Medicaid reimbursement rates and low staffing and poor quality (2001; 2004; 2004). Harrington and colleagues (2006) found that although Medicaid reimbursement rates were related to higher staffing, minimum state staffing standards were a stronger predictor of higher staffing levels.

Nursing personnel in nursing facilities were of particular interest for this report. Nursing personnel included: registered nurses (RNs); licensed practical/ vocational nurses (LPN/LVNs), and nursing aides/orderlies/ assistants (NAs). Staffing hours (including full-time, part-time, and contract staff) are reported by facilities as total hours worked in a fourteen day period. Nursing personnel hours are examined for each of the above three categories separately, for all licensed nursing personnel (RNs and LPN/LVNs combined), and for total nursing personnel (RNs, LPN/LVNs, and NAs). The staff time includes all administrative and direct care time.

To compute the staffing ratios for this report, the total number of staffing payroll hours reported in a two-week period was divided by the total number of residents and by the 14 days in the reporting period. In examining the staffing data, there were some facilities that reported very high or low levels of staffing. In order to minimize the number of facilities that may have reported erroneous data, we developed standard rules to remove these facilities from the data set. A conservative approach was taken by eliminating the lower one percent of facilities and the upper 2 percent. (See the appendix).

Nursing facilities are required by regulation to meet minimum nursing standards. Facilities must have sufficient nursing staff to provide nursing and related services to attain or maintain the highest practicable physical, mental, and psychosocial well-being of residents. Facilities

must also provide sufficient numbers of licensed nursing personnel to provide care on a 24 hour basis to all residents in accordance with resident care plans.

Facilities must also use the services of a registered nurse for at least 8 consecutive hours a day, 7 days a week, except when they have been given a waiver. A Medicare-only skilled nursing facility may have a waiver if it is located in a rural area and has one registered nurse who is on duty 40 hours a week. Waivers may also be granted under certain conditions where there is a shortage of appropriate personnel and where the health and safety of individuals is not jeopardized.

For this report, the total hours of staffing per resident day were examined separately for dually certified facilities (Title 18/19), for Medicare-only facilities (Title 18), and for Medicaid- only facilities (Title 19). It should be noted that the reported staffing ratios reflect reported hours per resident day and not the actual hours of care delivered directly to residents. These data are reported by each facility for the two weeks prior to the facility survey.

Facilities with Medicaid Only and Medicare and/or Medicaid Beds (Title 19 and Title 18/19)

Tables 25 and 26 show the total facilities with Medicaid-only and Medicare/Medicaid beds in the U.S. for the 2005 through 2010 period. The number of facilities varied by year and category because missing and erroneous data were removed, using consistent procedures over the time period. There were 13,938 facilities reporting beds in this category for RNs in 2010.

Registered Nursing Hours

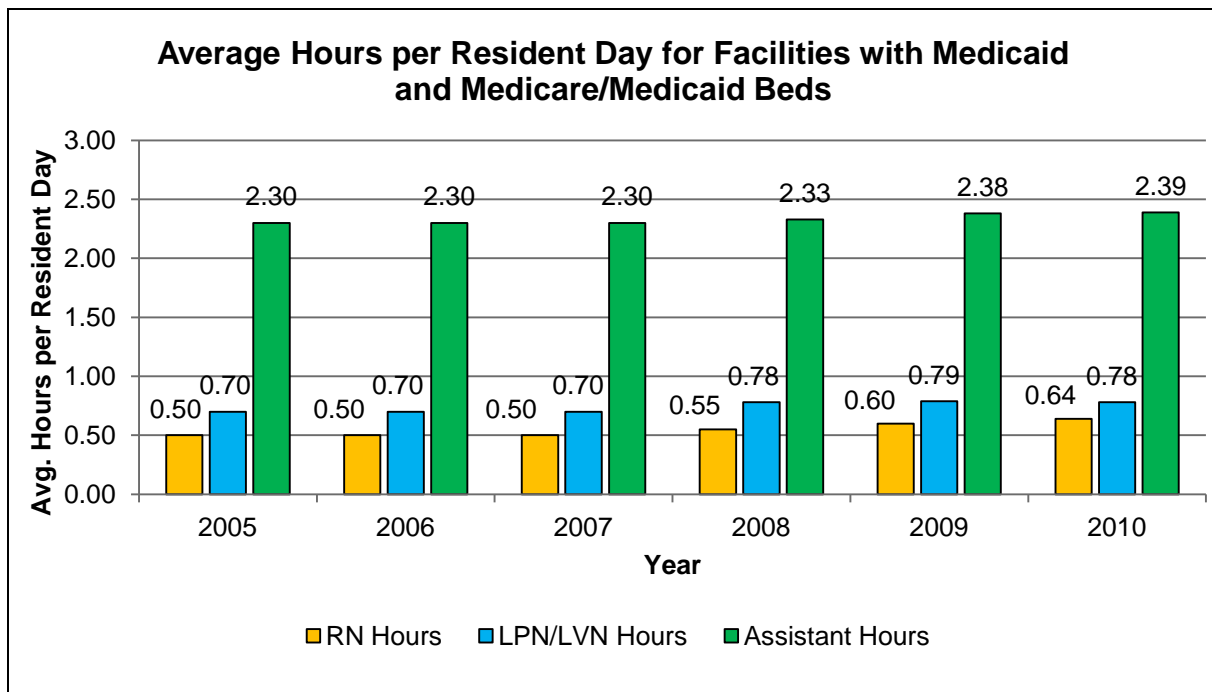
The average RN hours per resident day are shown in Table 25. The average hours slightly increase from 0.50 in 2005 to 0.64 in 2010 or a 28 percent increase. This converts to 38.4 minutes per resident day or about 12.8 minutes per 8 hour shift in 2010. The average ratio of RNs hours ranged from 0.38 hours in Louisiana to 1.51 hours in Alaska in 2010. This includes nurses who are in administrative positions.

LPN/LVN Nursing Hours

The average LPN/LVN hours per resident day are shown in Table 25. LPN/LVN hours increased by 11.4 percent from 0.70 hours (42 minutes) in 2005 to 0.78 hours per resident day (or 46.8 minutes) in 2010.

Nursing Aide/Assistant Hours

The average NA hours per resident day are shown in Table 25. The average was 2.3 hours (138 minutes) in 2005. In 2010, the average NA hours increased to 2.39 hours (143 minutes per resident day or 48 minutes per shift).



Licensed Nursing Hours

Table 26 shows the average licensed nursing hours (RNs and LPN/LVNs) per resident day increased from 1.30 hours in 2005 to 1.43 in 2010 (10 percent). This was about 85.8 minutes per resident day or 28.6 minutes per 8-hour shift in 2010.

Total Nursing Hours

The total nursing hours (RNs, LPN/LVNs, and NAs) per resident day increased from 3.50 in 2005 to 3.83 in 2010 (9.4 percent change; See Table 26). The total nursing hours varied across states from 3.37 in Illinois to 5.41 in Alaska in 2010.

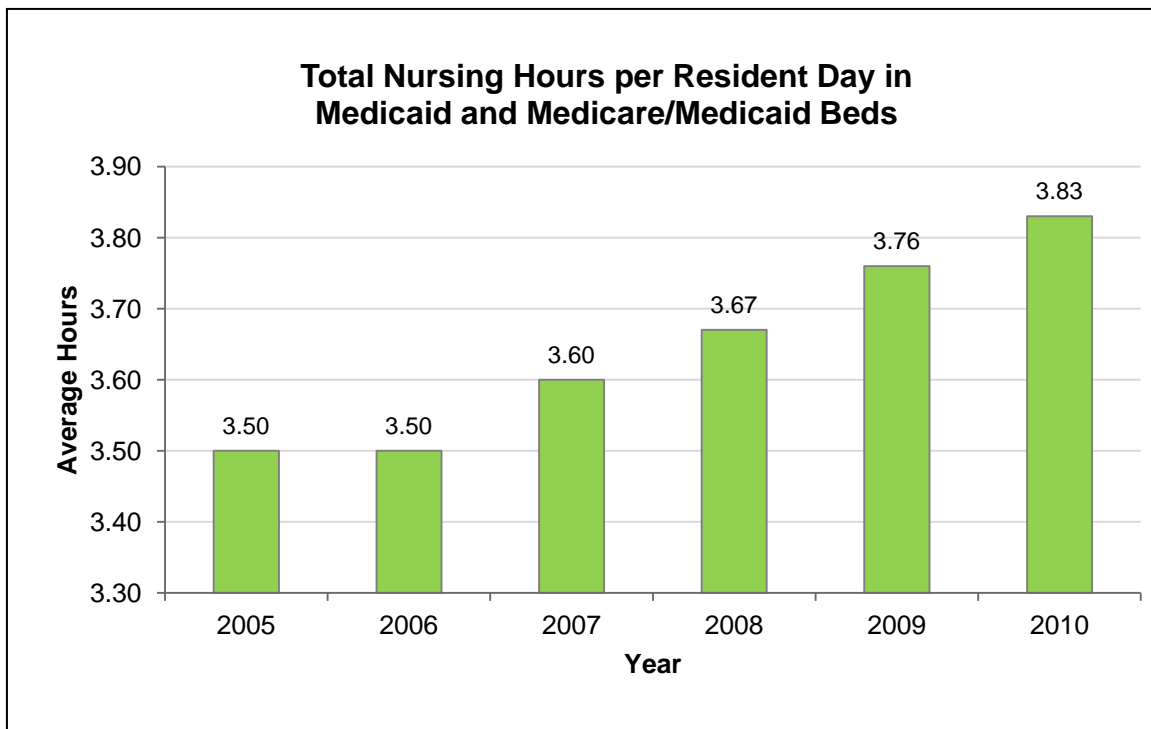


TABLE 26
AVERAGE LICENSED AND COMBINED NURSE HOURS PER RESIDENT DAY
IN FACILITIES WITH MEDICAID AND MEDICARE/MEDICAID BEDS (TITLE 19 AND TITLE 18/19)

State	Licensed Nurses						Total Nursing Staff					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	1.90	1.90	1.90	1.92	2.08	2.07	5.00	5.40	5.10	4.96	5.45	5.41
AL	1.40	1.40	1.40	1.48	1.51	1.58	3.90	3.90	3.90	4.03	4.10	4.21
AR	1.10	1.10	1.20	1.23	1.30	1.34	3.80	3.70	3.70	3.84	4.08	4.12
AZ	1.40	1.40	1.30	1.47	1.57	1.53	3.60	3.50	3.50	3.77	3.90	3.86
CA	1.20	1.20	1.30	1.31	1.37	1.42	3.60	3.70	3.80	3.84	3.92	3.98
CO	1.40	1.40	1.40	1.46	1.52	1.51	3.60	3.60	3.60	3.67	3.83	3.81
CT	1.30	1.30	1.40	1.47	1.50	1.52	3.60	3.60	3.70	3.90	3.90	3.91
DC	1.60	1.70	1.70	1.68	1.79	1.76	4.00	4.00	4.20	4.22	4.37	4.40
DE	1.60	1.60	1.70	1.78	1.77	1.72	4.00	4.10	3.90	4.19	4.18	4.11
FL	1.50	1.50	1.50	1.51	1.54	1.58	4.20	4.20	4.50	4.45	4.55	4.60
GA	1.20	1.20	1.30	1.31	1.37	1.42	3.30	3.30	3.40	3.38	3.52	3.59
HI	1.20	1.30	1.30	1.32	1.31	1.36	3.80	3.90	3.80	3.77	3.94	3.95
IA	1.10	1.10	1.10	1.17	1.20	1.23	3.10	3.20	3.20	3.36	3.40	3.48
ID	1.50	1.50	1.50	1.57	1.60	1.61	4.00	4.00	4.00	4.15	4.22	4.22
IL	1.10	1.10	1.10	1.16	1.24	1.27	3.10	3.00	3.10	3.14	3.36	3.37
IN	1.30	1.30	1.40	1.42	1.52	1.59	3.30	3.40	3.40	3.45	3.60	3.72
KS	1.10	1.10	1.10	1.16	1.22	1.23	3.40	3.40	3.50	3.60	3.72	3.77
KY	1.30	1.30	1.30	1.33	1.39	1.45	3.70	3.70	3.70	3.78	3.88	3.94
LA	1.00	1.10	1.10	1.16	1.22	1.26	3.00	3.00	3.10	3.26	3.37	3.38
MA	1.40	1.40	1.50	1.51	1.58	1.60	3.70	3.70	3.80	3.81	3.93	3.96
MD	1.40	1.40	1.40	1.50	1.54	1.59	3.70	3.70	3.70	3.82	3.90	3.90
ME	1.30	1.30	1.30	1.39	1.40	1.39	4.20	4.30	4.30	4.43	4.48	4.44
MI	1.30	1.30	1.30	1.34	1.40	1.43	3.60	3.60	3.70	3.75	3.84	3.90
MN	1.30	1.30	1.30	1.31	1.40	1.44	3.50	3.60	3.60	3.71	3.81	3.89
MO	1.00	1.00	1.10	1.10	1.17	1.21	3.40	3.40	3.40	3.48	3.65	3.67
MS	1.30	1.30	1.40	1.48	1.51	1.54	3.60	3.60	3.70	3.83	3.93	3.93
MT	1.30	1.40	1.30	1.32	1.40	1.40	3.70	3.80	3.70	3.82	4.00	4.06
NC	1.40	1.40	1.40	1.41	1.48	1.49	3.70	3.70	3.60	3.71	3.83	3.88
ND	1.20	1.20	1.20	1.28	1.29	1.34	3.90	3.80	3.90	4.06	4.13	4.11
NE	1.20	1.30	1.30	1.34	1.37	1.40	3.60	3.60	3.60	3.73	3.85	3.86
NH	1.40	1.40	1.50	1.51	1.50	1.46	3.80	3.80	3.90	4.04	4.04	3.93
NJ	1.30	1.30	1.30	1.40	1.46	1.50	3.50	3.40	3.50	3.53	3.64	3.72
NM	1.20	1.10	1.20	1.09	1.23	1.19	3.30	3.30	3.40	3.28	3.61	3.43
NV	1.30	1.40	1.30	1.50	1.51	1.58	3.50	3.40	3.50	3.54	3.81	3.81
NY	1.30	1.30	1.40	1.38	1.41	1.43	3.60	3.60	3.60	3.63	3.69	3.73
OH	1.40	1.40	1.40	1.48	1.52	1.54	3.80	3.70	3.70	3.78	3.87	3.88
OK	1.00	1.00	1.00	1.06	1.12	1.14	3.40	3.40	3.40	3.47	3.60	3.64
OR	1.20	1.20	1.20	1.25	1.33	1.36	3.70	3.80	3.90	4.04	4.38	4.36
PA	1.40	1.40	1.40	1.49	1.53	1.54	3.60	3.60	3.60	3.72	3.79	3.77
RI	1.10	1.00	1.10	1.12	1.18	1.21	3.50	3.40	3.50	3.60	3.72	3.74
SC	1.30	1.30	1.40	1.37	1.47	1.51	3.60	3.60	3.70	3.66	3.83	3.91
SD	1.00	1.00	1.00	1.07	1.11	1.17	3.20	3.20	3.20	3.36	3.46	3.50
TN	1.20	1.30	1.30	1.31	1.40	1.47	3.30	3.30	3.30	3.43	3.60	3.68
TX	1.10	1.10	1.10	1.16	1.23	1.29	3.20	3.20	3.20	3.30	3.47	3.55
UT	1.20	1.20	1.30	1.29	1.39	1.38	3.60	3.40	3.60	3.65	3.82	3.81
VA	1.40	1.40	1.40	1.45	1.52	1.58	3.50	3.50	3.50	3.60	3.75	3.78
VT	1.40	1.40	1.40	1.49	1.55	1.61	3.80	3.80	3.60	3.90	4.03	4.19
WA	1.40	1.40	1.40	1.50	1.55	1.58	3.80	3.80	3.80	3.92	4.05	4.10
WI	1.20	1.20	1.20	1.27	1.33	1.40	3.50	3.60	3.60	3.73	3.80	3.92
WV	1.30	1.30	1.30	1.42	1.46	1.49	3.40	3.40	3.40	3.58	3.70	3.71
WY	1.30	1.30	1.30	1.31	1.37	1.38	3.60	3.60	3.70	3.65	3.75	3.73
US	1.30	1.30	1.30	1.34	1.39	1.43	3.50	3.50	3.60	3.67	3.76	3.83
Facilities	13,213	13,193	13,033	13,558	13,666	13,581	12,851	13,122	13,109	13,366	13,485	13,392

Facilities with Medicare Only Certified Beds (Title 18)

Tables 27 and 28 show the certified facilities with Medicare only beds. In 2010 there were a total of 712 such facilities that had RN staffing data available. Medicare only certified nursing facility beds represented only 2.27 percent of the total nursing facility beds (Table 5).

Registered Nursing Hours

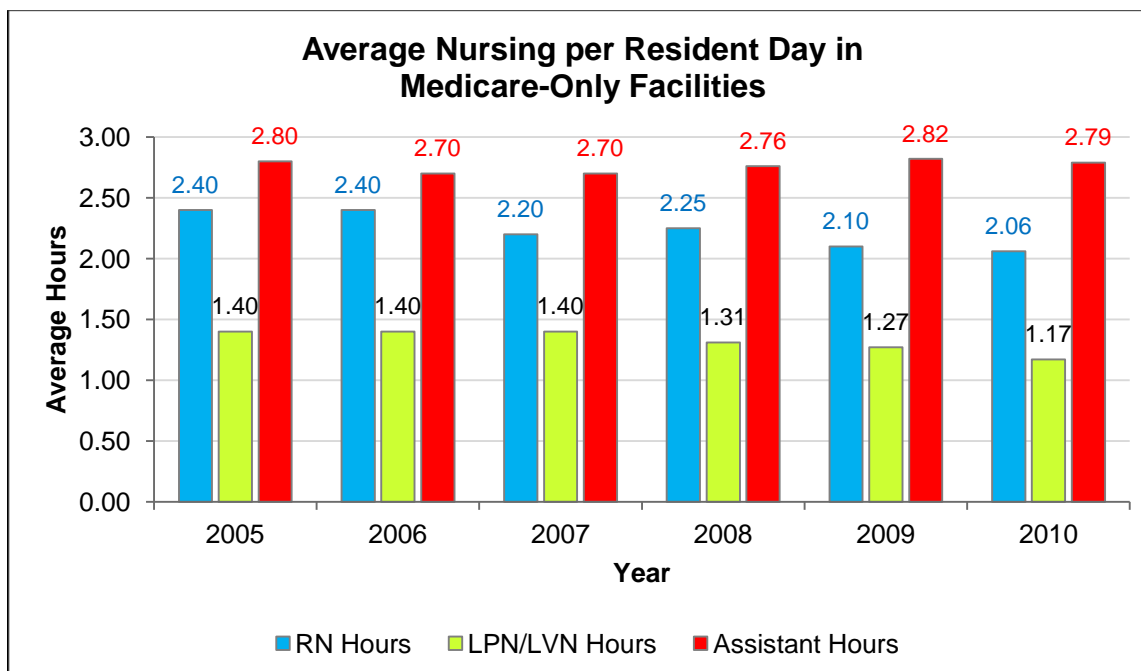
The average RN hours per resident day are shown in Table 27. The average RN hours were 2.40 in 2005 and then decreased to 2.06 hours (123.6 minutes) per resident day in 2010. This was a 14.17 percent decrease in RN hours per resident day since 2005. The ratio of RN hours varied across states.

LPN/LVN Nursing Hours

The average LPN/LVN hours per resident day are shown in Table 27. There was an average of 1.40 hours per resident day in 2005 and this decreased to 1.17 in 2010. This was a 16.43 percent decrease in LPN/LVN hours per resident day. This was about 70.2 minutes per resident day or 23.4 minutes per 8 hour shift in 2010.

Nursing Aide/Assistant Hours

The average NA hours per resident day are shown in Table 27. The average was 2.80 hours in 2005 and 2.79 hours in 2010.

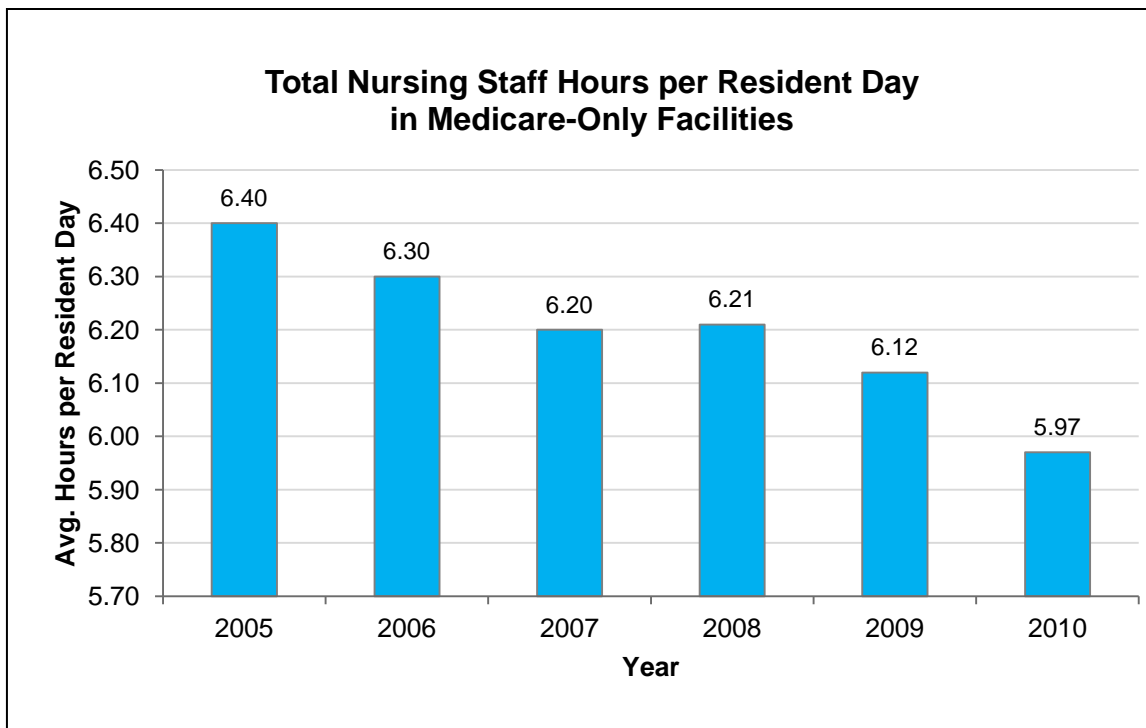


Licensed Nursing Hours

Table 28 shows that the average licensed nursing hours (RNs and LPN/LVNs) per resident day was 3.80 in 2005 and declined to 3.23 for a 15 percent drop in 2010. The ratio varied across states.

Total Nursing Hours

Table 28 shows that the total nursing hours (RNs, LPN/LVNs, and NAs) per resident day was 6.40 in 2005 and then declined to 5.97 hours in 2010 (or a 7 percent drop). The total hours varied across states.



**TABLE 28
AVERAGE LICENSED AND COMBINED NURSE HOURS PER RESIDENT DAY
IN FACILITIES WITH MEDICARE ONLY BEDS (TITLE 18)**

State	Licensed Nurse Hours						Total Nursing Staff					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	-	-	3.60	-	-	-	-	-	7.70	-	-	-
AL	5.00	3.20	4.50	3.64	3.06	3.31	6.40	6.20	7.90	6.31	4.80	6.65
AR	6.10	6.00	5.60	6.28	4.83	5.70	8.70	8.50	7.90	8.82	7.19	8.41
AZ	1.40	1.50	1.70	2.05	2.17	1.98	3.60	3.70	3.80	4.87	4.84	4.61
CA	2.70	2.50	2.30	2.59	2.46	2.52	5.40	5.20	4.90	5.64	5.39	5.43
CO	3.30	3.30	2.90	2.75	3.38	3.01	6.10	5.20	5.30	5.39	6.10	5.73
CT	2.50	2.30	2.10	2.12	2.07	1.91	5.50	4.90	5.10	5.31	5.18	4.97
DC	-	-	-	-	-	-	-	-	-	-	-	-
DE	1.90	2.40	2.50	2.11	1.88	2.12	4.10	4.80	4.80	4.34	4.53	4.57
FL	3.80	2.80	2.70	2.94	2.74	2.78	7.10	6.10	5.90	6.29	6.20	5.88
GA	3.10	4.10	3.50	2.41	3.26	2.97	6.00	6.60	4.50	4.66	6.34	6.17
HI	-	9.10	-	4.15	-	2.02	-	10.80	-	6.48	-	2.02
IA	6.10	4.50	5.40	3.81	4.05	2.71	8.00	6.90	7.30	6.95	6.19	4.92
ID	5.20	4.50	6.30	5.57	5.04	5.11	8.80	7.80	9.40	10.11	8.25	7.82
IL	3.70	4.20	4.10	4.30	3.69	3.65	6.20	6.40	6.60	6.99	6.40	6.37
IN	3.90	4.10	3.70	3.74	3.52	3.60	6.50	6.80	6.30	6.15	6.02	6.05
KS	3.90	4.00	3.70	3.65	3.45	3.40	6.90	7.50	6.00	6.00	6.43	6.01
KY	4.70	4.30	4.60	4.23	4.18	4.12	7.40	6.90	7.70	7.17	7.05	6.74
LA	6.30	5.30	4.90	3.92	4.50	4.37	9.10	8.90	7.80	5.87	7.23	7.02
MA	2.70	2.70	2.50	2.62	2.88	2.58	5.40	5.30	5.40	5.33	6.14	5.61
MD	2.00	1.80	1.80	1.86	1.84	1.85	5.20	4.90	4.80	4.66	4.70	4.65
ME	4.20	4.10	3.30	3.16	4.50	3.13	6.90	7.60	6.10	5.53	10.78	9.01
MI	2.30	2.40	2.30	2.25	2.22	2.35	4.70	4.80	4.80	4.76	4.71	4.80
MN	3.30	2.40	3.60	3.50	3.84	3.71	5.70	4.90	5.40	5.18	6.78	6.17
MO	5.70	5.20	5.20	5.06	4.85	4.41	8.60	7.90	8.60	8.52	7.49	7.07
MS	5.00	4.60	5.20	4.75	5.86	4.40	7.10	6.40	7.90	7.41	8.00	6.81
MT	6.80	4.90	5.90	7.37	5.20	4.25	8.10	7.50	9.20	10.54	6.86	7.15
NC	7.00	4.10	4.60	3.99	3.18	4.10	6.00	5.80	6.20	5.00	6.80	7.48
ND	6.90	7.50	7.60	7.30	7.03	6.48	9.40	10.30	10.90	10.22	10.22	9.75
NE	5.30	9.20	4.90	5.03	5.08	6.27	13.30	11.70	7.60	7.79	8.00	8.97
NH	3.60	1.90	1.80	2.00	2.07	1.51	7.50	4.70	4.80	5.40	5.53	5.47
NJ	2.80	2.90	2.90	2.58	2.93	2.87	5.40	5.80	5.60	5.08	5.51	5.49
NM	4.60	3.00	2.00	5.06	4.32	2.91	7.80	5.20	4.40	7.20	5.70	5.33
NV	-	-	4.10	1.79	1.89	2.13	-	-	5.80	4.14	4.64	4.87
NY	1.70	1.40	3.80	4.01	4.76	4.79	4.50	3.60	6.20	7.30	7.91	7.68
OH	4.60	4.80	4.30	4.33	4.15	3.69	6.80	7.30	6.70	6.64	6.54	6.13
OK	5.30	3.60	4.80	4.13	4.34	3.93	8.40	6.20	7.70	7.27	7.95	6.80
OR	1.40	1.80	1.90	2.43	2.74	2.26	4.20	4.70	5.10	5.74	6.48	5.60
PA	3.30	3.50	3.70	3.37	3.09	3.32	5.60	5.70	5.90	5.63	5.39	5.54
RI	1.50	1.50	2.10	2.15	-	1.94	3.90	3.80	4.70	4.72	-	4.41
SC	3.80	3.90	2.80	3.21	3.20	2.95	7.80	6.90	5.50	6.36	6.67	5.96
SD	1.20	1.30	1.40	1.27	1.48	1.46	4.20	3.60	4.00	3.77	4.06	4.23
TN	3.90	3.50	4.00	3.49	3.07	3.26	6.50	6.20	7.10	5.86	5.50	5.68
TX	4.20	4.70	3.80	3.81	3.42	3.33	6.60	6.80	6.60	6.44	6.46	6.36
UT	4.10	3.60	3.30	3.49	3.05	3.23	7.50	6.70	6.40	7.01	6.28	6.21
VA	3.00	2.90	3.60	3.72	2.92	2.91	6.40	5.60	7.00	6.02	5.66	5.89
VT	2.10	2.00	3.80	2.34	2.82	2.68	5.00	4.90	10.90	5.93	7.66	5.72
WA	2.30	2.30	1.90	2.12	2.10	2.25	5.00	5.50	4.80	5.16	4.73	5.45
WI	2.90	2.40	2.40	2.96	3.05	2.90	5.70	4.90	4.60	5.56	5.88	6.20
WV	4.50	4.40	4.20	5.04	4.53	4.58	7.30	6.50	6.60	7.27	7.33	7.47
WY	5.80	7.90	5.30	5.54	6.55	5.33	8.10	11.80	7.90	8.48	9.83	9.54
US	3.80	3.80	3.60	3.53	3.32	3.23	6.40	6.30	6.20	6.21	6.12	5.97
Facilities	691	712	708	679	695	696	676	691	693	664	685	683

Facilities with Medicaid-Only Certified Beds (Title 19)

Tables 29 and 30 show facilities with Medicaid-only beds. In 2010, there were a total of 556 such facilities that had RN staffing data available. Medicaid-only nursing facilities represented only 2.73 percent of the total nursing facilities in 2010 (Table 5).

RN Hours

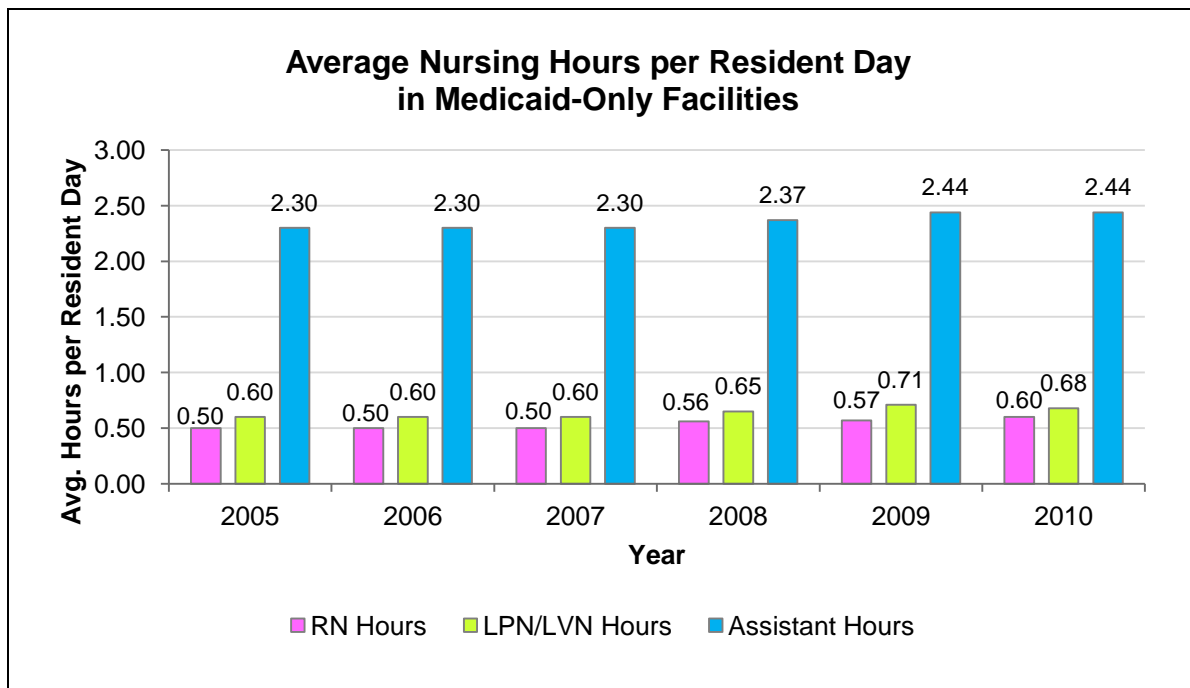
The average RN hours per resident day are shown in Table 29. In 2005, the average RN hours were 0.50 and these increased to 0.60 in 2010. The ratio of RNs hours varied across states.

LPN/LVN Hours

The average LPN/LVN hours per resident day are shown in Table 29. The average LPN/LVN hours were 0.60 in 2005 and increased to 0.68 in 2010. The ratio of LPN/LVN hours varied across states.

Nursing Aide/Assistant Hours

The average NA hours per resident day are shown in Table 29. The average NA hours were 2.30 in 2005 and increased to 2.44 by 2010 (or by 6.1 percent increase). The ratio of NA hours varied across states.

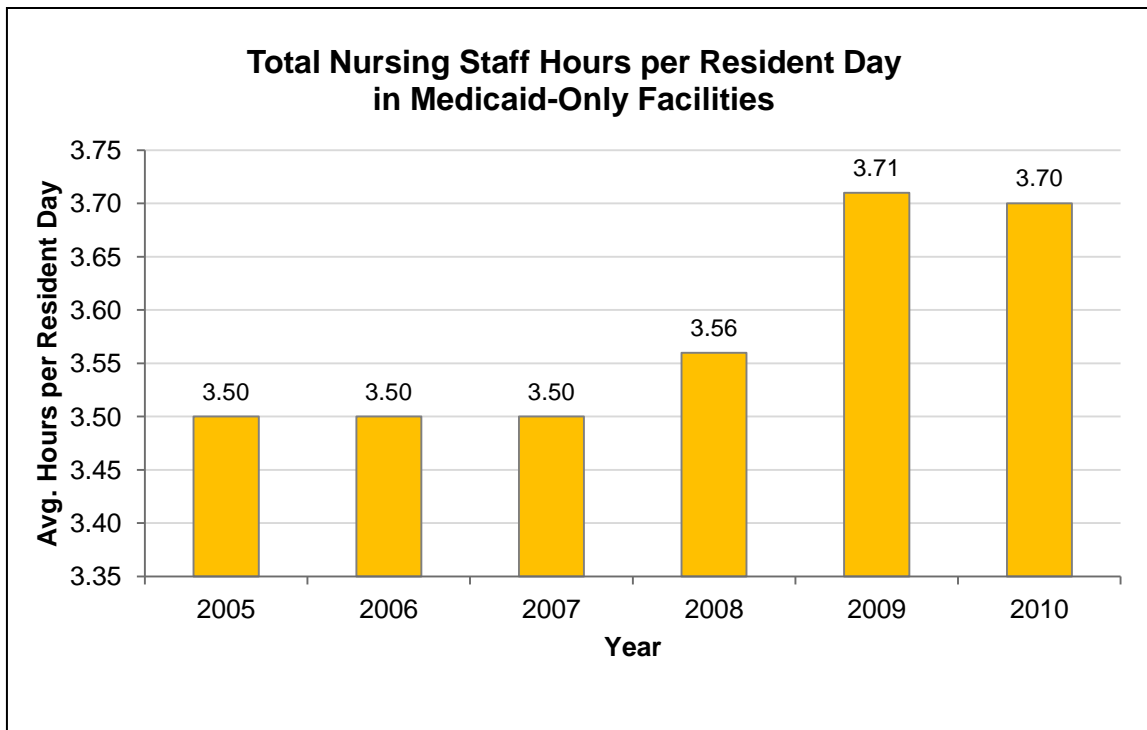


Licensed Nursing Hours

Table 30 shows that the average licensed nursing hours (RNs and LPN/LVNs) per resident day in Medicaid only facilities were 1.10 in 2005 and 1.28 in 2010. The average hours varied across states.

Total Nursing Hours

Table 30 shows that the total nursing hours (RNs, LPN/LVNs, and NAs) per resident day were 3.50 in 2005 and 3.70 in 2010 (a 5.7 percent increase). The total hours varied across states.



**TABLE 30
AVERAGE LICENSED AND COMBINED NURSE HOURS PER RESIDENT DAY
IN FACILITIES WITH MEDICAID ONLY BEDS (TITLE 19)**

State	Licensed Nurse Hours						Total Nursing Staff					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	-	-	-	-	-	-	-	-	-	-	-	-
AL	2.70	2.30	1.20	1.94	2.31	2.44	7.30	5.60	3.40	4.83	5.76	5.58
AR	1.10	1.20	1.10	1.07	1.24	1.24	3.90	4.00	3.90	3.85	4.30	4.27
AZ	1.80	2.00	-	-	-	-	2.80	3.60	-	-	-	-
CA	1.10	1.10	1.10	1.18	1.19	1.25	3.50	3.40	3.30	3.43	3.35	3.55
CO	1.30	1.20	1.40	1.32	1.32	1.40	4.00	3.90	3.90	3.78	3.82	4.06
CT	-	-	-	-	-	-	-	-	-	-	-	-
DC	-	2.60	2.00	2.09	2.14	2.14	-	-	5.60	6.26	6.28	6.28
DE	2.60	2.20	2.30	2.45	2.31	1.65	5.50	5.20	4.80	4.92	5.81	4.17
FL	1.20	1.40	1.40	2.31	2.14	2.39	3.80	4.20	4.30	5.58	5.14	5.38
GA	1.10	1.10	1.70	2.18	2.69	2.38	5.10	4.30	5.00	6.54	7.80	-
HI	1.00	0.80	1.10	0.88	1.09	1.08	4.00	3.80	3.80	4.15	3.67	3.87
IA	1.20	1.20	1.20	1.17	1.37	1.25	3.50	3.60	3.40	3.52	3.76	3.59
ID	1.40	1.70	-	-	-	-	3.90	4.50	-	-	-	-
IL	0.90	0.90	0.90	0.88	0.84	0.81	2.50	2.50	2.50	2.44	2.35	2.40
IN	1.30	1.40	1.40	1.43	1.42	1.33	3.50	3.90	3.70	3.75	3.89	3.71
KS	1.10	1.10	1.10	1.11	1.22	1.22	3.50	3.60	3.70	3.71	3.96	3.95
KY	-	-	-	-	-	-	-	-	-	-	-	-
LA	-	-	-	-	-	-	-	-	-	-	-	-
MA	1.40	1.40	1.50	1.58	1.82	1.96	3.80	3.80	4.00	4.22	4.33	4.53
MD	1.20	1.20	1.20	1.36	1.31	1.40	3.80	4.20	3.70	4.02	3.47	3.68
ME	-	-	-	-	-	-	-	-	-	-	-	-
MI	1.10	1.10	1.20	1.28	1.24	1.29	3.50	3.50	3.70	3.78	3.48	4.00
MN	0.80	0.90	0.80	0.89	0.88	0.86	1.80	1.80	1.80	1.80	1.71	1.73
MO	1.00	1.00	1.10	1.15	1.25	1.22	3.50	3.40	3.50	3.47	3.61	3.85
MS	1.40	1.30	1.40	1.66	1.55	1.63	3.90	3.90	4.00	4.21	4.15	4.02
MT	-	-	-	-	-	-	-	-	-	-	-	-
NC	1.30	1.10	1.40	1.34	1.33	1.58	-	4.10	-	-	-	-
ND	-	-	-	-	-	-	-	-	-	-	-	-
NE	1.40	1.40	1.40	1.43	1.47	1.51	4.10	3.90	4.00	3.97	4.19	4.25
NH	1.40	1.40	1.60	1.59	1.35	1.36	4.10	4.00	4.70	4.82	4.32	4.16
NJ	-	-	-	-	-	-	-	-	-	-	-	-
NM	2.50	1.40	1.40	1.61	1.43	1.27	6.70	3.80	3.60	3.34	4.19	3.63
NV	1.20	1.00	1.10	1.06	1.25	1.40	2.80	2.50	2.80	2.67	2.83	2.53
NY	-	-	-	-	-	-	-	-	-	-	-	-
OH	1.60	1.60	1.70	1.26	-	-	4.30	3.80	3.80	5.00	-	-
OK	1.00	1.00	1.00	1.08	1.24	1.26	3.40	3.40	3.50	3.24	3.70	3.73
OR	1.10	1.00	1.10	1.14	1.32	1.23	3.70	3.50	3.70	4.10	4.60	4.15
PA	1.50	1.40	1.40	1.68	1.70	1.80	4.00	3.80	3.80	4.46	4.41	4.65
RI	-	-	-	-	-	-	-	-	-	-	-	-
SC	-	-	-	-	-	-	-	-	-	-	-	-
SD	1.10	1.10	1.10	1.13	1.24	1.21	3.40	3.30	3.50	3.44	3.83	3.54
TN	1.00	1.00	1.00	1.05	1.32	1.27	3.00	3.30	3.30	3.37	3.70	3.72
TX	1.10	1.10	1.10	1.10	1.06	1.15	3.40	3.50	3.40	3.57	3.55	3.66
UT	1.10	1.10	1.20	1.34	1.14	1.28	3.00	2.80	3.30	3.38	3.70	3.95
VA	1.40	1.50	1.80	1.78	1.63	1.49	4.00	3.90	4.50	4.51	4.51	4.25
VT	-	-	-	-	-	-	-	-	-	-	-	-
WA	1.90	1.80	2.10	1.76	1.94	1.70	5.20	4.50	5.80	5.06	5.81	5.97
WI	1.20	1.20	1.30	1.32	1.26	1.55	3.90	3.70	4.00	3.92	4.01	4.23
WV	1.40	1.30	1.40	1.41	1.54	1.45	3.90	3.60	4.10	4.07	4.23	4.14
WY	2.00	1.40	1.80	1.63	1.42	1.37	4.90	4.30	4.70	4.48	4.32	4.17
US	1.10	1.10	1.20	1.23	1.28	1.28	3.50	3.50	3.50	3.56	3.71	3.70
Facilities	795	749	648	614	569	542	781	737	636	601	561	529

Total Certified Facilities (Title 19, Title 18/19, and Title 18)

Table 31 and 32 shows a combined total of about 14,632 to 14,653 facilities (with Title 19, Title 18/19, and Title 18 only beds) that had useable staffing data for the staffing analysis in 2010.

Registered Nursing Hours

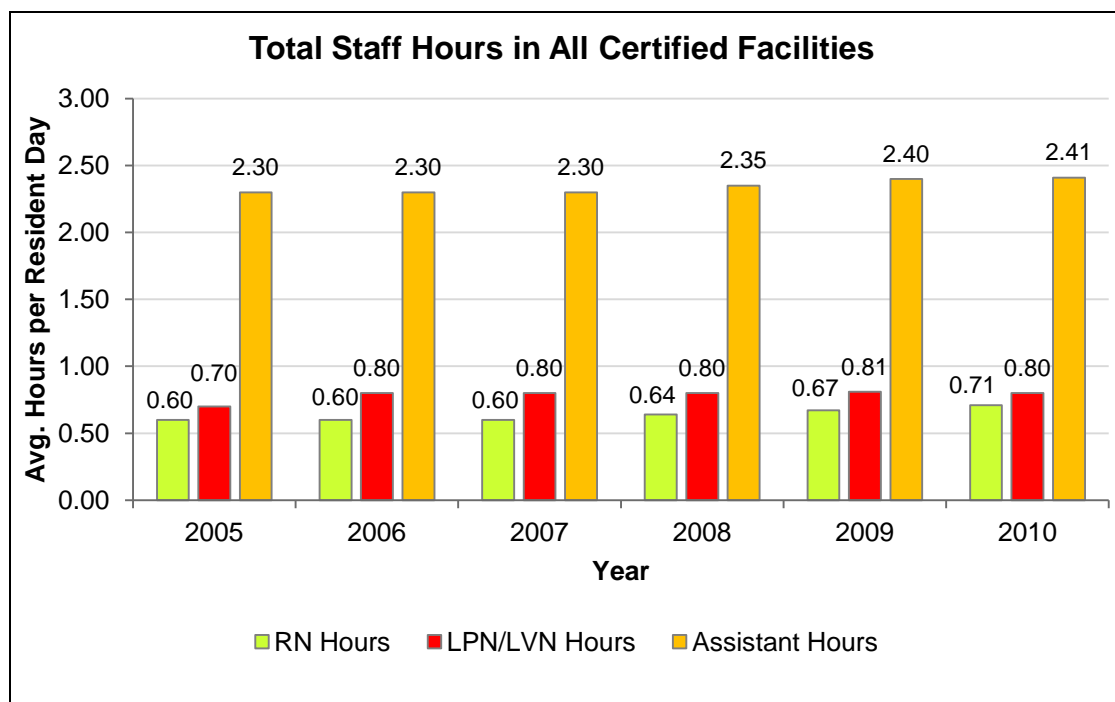
The average RN hours per resident day are shown in Table 31. The average hours were 0.60 in 2005 and then increased to 0.71 during 2010 (by 18.3 percent). In 2010, this was 42.6 minutes per resident day or 14.2 minutes per 8 hour shift. This table shows that nursing assistant hours are partially being substituted for RN hours.

LPN/LVN Nursing Hours

The average LPN/LVN hours per resident day are shown in Table 31. There was an average of 0.70 hours per resident day in 2005, and increased to 0.80 in 2010 (14.3 percent). In 2010, this represents 48 minutes per resident day or 16 minutes per 8 hour shift.

Nursing Aide/Assistant Hours

The average NA hours per resident day are shown in Table 31. The average was 2.30 hours during in 2005, and increased to 2.41 in 2010 (5 percent). This was 144.6 minutes per resident day or 48.2 minutes per 8 hour shift in 2010.



Licensed Nursing Hours

Table 32 shows the average licensed nursing hours (RNs and LPN/LVNs) per resident day was 1.40 in 2005 and 1.52 in 2010 (an 8.6 percent increase).

Total Nursing Hours

Table 32 shows the total nursing hours (RNs, LPN/LVNs, and NAs) per resident day was 3.70 hours per resident day in 2005 and this increased to 3.94 hours per resident day in 2010, a 6.5 percent increase. In 2010, this was about 236.40 minutes per resident day or 78.80 minutes per 8 hour shift.

**TABLE 32
AVERAGE LICENSED AND COMBINED NURSE HOURS PER RESIDENT DAY
IN ALL CERTIFIED NURSING FACILITIES COMBINED**

State	Licensed Nurse Hours						Total Nursing Staff Hours					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	1.90	1.90	2.10	1.92	2.08	2.07	5.00	5.40	5.50	4.96	5.45	5.41
AL	1.60	1.50	1.60	1.55	1.57	1.63	4.00	4.00	4.10	4.11	4.12	4.28
AR	1.50	1.40	1.40	1.49	1.40	1.47	4.10	4.00	4.00	4.11	4.17	4.25
AZ	1.40	1.40	1.40	1.54	1.66	1.60	3.60	3.50	3.50	3.92	4.04	3.97
CA	1.20	1.30	1.30	1.37	1.44	1.49	3.70	3.80	3.80	3.93	4.01	4.07
CO	1.50	1.60	1.50	1.56	1.70	1.66	3.80	3.80	3.70	3.81	4.00	3.99
CT	1.30	1.40	1.40	1.49	1.53	1.53	3.60	3.60	3.70	3.95	3.95	3.95
DC	1.60	1.70	1.70	1.68	1.79	1.76	4.00	4.00	4.20	4.22	4.37	4.40
DE	1.60	1.70	1.80	1.80	1.78	1.74	4.00	4.20	4.00	4.20	4.20	4.14
FL	1.60	1.50	1.50	1.56	1.59	1.63	4.40	4.30	4.60	4.52	4.62	4.64
GA	1.30	1.30	1.30	1.33	1.44	1.47	3.40	3.40	3.40	3.41	3.61	3.67
HI	1.20	1.70	1.30	1.40	1.31	1.38	3.80	4.10	3.80	3.85	3.94	3.88
IA	1.20	1.20	1.20	1.22	1.26	1.25	3.20	3.30	3.30	3.44	3.46	3.50
ID	1.80	1.80	2.00	1.80	1.86	1.87	4.50	4.50	4.50	4.56	4.56	4.52
IL	1.30	1.30	1.30	1.37	1.40	1.42	3.30	3.20	3.30	3.40	3.55	3.57
IN	1.50	1.60	1.60	1.55	1.64	1.71	3.50	3.60	3.60	3.62	3.75	3.85
KS	1.10	1.20	1.20	1.23	1.29	1.30	3.50	3.50	3.60	3.67	3.78	3.83
KY	1.50	1.50	1.60	1.55	1.59	1.63	4.00	3.90	4.00	4.04	4.08	4.13
LA	1.40	1.30	1.40	1.35	1.46	1.45	3.40	3.40	3.40	3.44	3.61	3.62
MA	1.50	1.50	1.50	1.54	1.62	1.63	3.80	3.80	3.80	3.85	4.00	4.01
MD	1.40	1.40	1.40	1.51	1.55	1.60	3.80	3.70	3.80	3.86	3.93	3.93
ME	1.30	1.40	1.30	1.41	1.43	1.41	4.30	4.30	4.30	4.44	4.54	4.49
MI	1.30	1.30	1.30	1.37	1.43	1.46	3.60	3.70	3.70	3.79	3.87	3.93
MN	1.30	1.30	1.30	1.34	1.43	1.48	3.60	3.60	3.60	3.72	3.85	3.93
MO	1.20	1.20	1.20	1.22	1.24	1.27	3.50	3.60	3.60	3.63	3.72	3.73
MS	1.60	1.50	1.50	1.66	1.69	1.63	3.80	3.80	3.90	4.03	4.07	4.02
MT	1.40	1.50	1.60	1.62	1.50	1.44	3.80	3.90	4.00	4.18	4.08	4.10
NC	1.50	1.40	1.40	1.45	1.52	1.57	3.70	3.70	3.70	3.73	3.86	3.96
ND	1.40	1.40	1.40	1.50	1.50	1.47	4.10	4.00	4.20	4.30	4.26	4.25
NE	1.30	1.30	1.30	1.36	1.41	1.43	3.60	3.60	3.70	3.75	3.84	3.89
NH	1.50	1.40	1.50	1.52	1.52	1.47	3.90	3.80	3.90	4.08	4.08	3.97
NJ	1.40	1.50	1.50	1.49	1.57	1.62	3.60	3.60	3.60	3.65	3.78	3.88
NM	1.30	1.20	1.20	1.28	1.39	1.32	3.50	3.40	3.40	3.47	3.75	3.59
NV	1.30	1.40	1.40	1.50	1.52	1.59	3.50	3.40	3.50	3.56	3.83	3.84
NY	1.30	1.30	1.40	1.40	1.44	1.46	3.60	3.60	3.60	3.67	3.73	3.76
OH	1.60	1.60	1.50	1.57	1.60	1.60	3.90	3.80	3.80	3.87	3.93	3.95
OK	1.20	1.10	1.20	1.16	1.27	1.26	3.70	3.50	3.60	3.60	3.71	3.77
OR	1.20	1.20	1.20	1.31	1.39	1.39	3.70	3.80	3.90	4.12	4.48	4.40
PA	1.60	1.70	1.70	1.70	1.70	1.75	3.90	3.90	3.90	3.94	3.95	3.97
RI	1.10	1.00	1.10	1.13	1.18	1.22	3.50	3.40	3.50	3.61	3.72	3.75
SC	1.60	1.70	1.60	1.63	1.69	1.75	4.10	4.00	3.90	4.05	4.21	4.24
SD	1.00	1.00	1.00	1.07	1.12	1.17	3.20	3.20	3.30	3.36	3.47	3.51
TN	1.40	1.40	1.50	1.44	1.51	1.57	3.50	3.50	3.60	3.57	3.72	3.80
TX	1.30	1.40	1.30	1.33	1.37	1.42	3.40	3.40	3.50	3.49	3.63	3.73
UT	1.80	1.70	1.70	1.68	1.71	1.84	4.30	4.10	4.10	4.24	4.29	4.41
VA	1.50	1.40	1.50	1.54	1.59	1.64	3.60	3.60	3.70	3.68	3.84	3.87
VT	1.40	1.40	1.50	1.51	1.58	1.64	3.80	3.90	3.80	3.95	4.13	4.23
WA	1.40	1.40	1.40	1.52	1.56	1.60	3.90	3.80	3.80	3.95	4.07	4.14
WI	1.20	1.20	1.30	1.32	1.38	1.44	3.60	3.60	3.70	3.78	3.87	3.99
WV	1.60	1.60	1.60	1.71	1.67	1.72	3.80	3.70	3.70	3.89	3.87	4.00
WY	1.60	1.70	1.50	1.56	1.65	1.60	3.80	4.20	4.00	3.92	3.80	4.05
US	1.40	1.40	1.40	1.44	1.49	1.52	3.70	3.70	3.70	3.79	3.88	3.94
Facilities	13,724	14,034	14,013	14,237	14,361	14,277	13,527	13,813	13,802	14,030	14,151	14,075

FACILITY DEFICIENCIES FROM STATE SURVEY EVALUATIONS

Background

Nursing facilities provide care to prevent problems or to address resident problems with cognition, communication/hearing, vision, physical functioning, continence, psychosocial functioning, mood and behavior, oral/ nutritional and dental care, skin condition, and medications.

A number of clinical process measures have been associated with poor patient outcomes. These include urethral catheterization, physical restraints, and tube feedings. Another common problem in nursing homes is the improper use of psychotropic drugs identified in a number of studies.

An outcome is an evaluation of the impact of facility care on a resident, whereas a process indicator is services or activities which a facility does or does not provide. A number of quality outcomes have been identified, such as: pressure ulcers, falls, weight loss, and infectious disease. Other negative outcomes are behavioral/ emotional problems, cognitive problems, pressure ulcers, and deterioration in physical functioning (Zimmerman et al., 1995).

State surveyors assess both the process and the outcomes of nursing home care in 15 major areas. Each of these areas has specific regulations which state surveyors review to determine whether or not

facilities have met the standards. In July 1995, HCFA consolidated the 325 measures of quality to about 185 measures. CMS has consolidated additional standards so this report shows data for about 175 measures.

Of the total survey requirements, most are considered process indicators and some are outcome measures. The process measures include whether proper procedures are used in providing each of the major nursing home services. The outcome measures include ensuring that negative problems do not occur such as: residents without an indwelling catheter are not catheterized; residents do not experience a reduction in range of motion; residents able to eat alone/with assistance are not fed by naso-gastric tube; and residents maintain acceptable parameters of nutritional status.

Where a facility fails to meet a standard, a deficiency or citation is given to the facility for that individual standard. The deficiencies are given for problems which can result in a negative impact on the health and safety of residents. Since 1995, surveyors also rate each deficiencies based on scope and severity for purposes of enforcement.

The deficiencies rated as causing actual harm or immediate jeopardy are the most serious (rated at a G level or higher). The overall

deficiency data on process and outcome measures from OSCAR are limited to whether or not the facility meets each of the minimum standards. Since there are many survey measures (or items), only a selected number of these are presented in the report. The measures with the highest percent of facilities with deficiencies were examined.

Each table shows an identifying number (F-tag) and a short description of each standard or item. A detailed list of all the F-tags and longer descriptions are shown in the last table. Definitions of deficiencies are given in the State Operations Manual published by the Centers for Medicare and Medicaid Services.

Changes were made in some of the deficiency categories by the Centers for Medicare and Medicaid Services. Two new items were requirements were added and several requirements were combined. These changes were taken into account in the data book for 2006 and these requirements were then revised for the previous years, as follows:

F315 and 316 were combined into F315, Urinary Incontinence Care

F329, F330 and F331 were combined into F329, Unnecessary Drugs.

F334, Influenza/Pneumococcal Immunizations became a new requirement.

F355, Nursing Waivers was a new

item (there were none for 2006)

F356, Posting Nurse Staff Information was new. F425, F426, and F427 were combined into F425, Pharmacy Services. F428, F429, F430 were combined into F428, Drug Regimen Review F431 and F432 were combined into F431, Consultation, Labeling and Storage

In 2007, accident prevention (F324) was combined with accident environment (F323).

In 2009, CMS consolidated F442-445 into one tag F441 for the infection control requirements.

Many studies have recommended that CMS strengthen the survey and the enforcement process to achieve greater uniformity across states and to encourage facilities to comply with federal standards (IOM 2001). The US GAO (2004; 2004) and the Inspector General (2004) continue to recommend improvements in enforcement and standardization of the survey and enforcement process.

Earlier versions of this report included only deficiencies from the annual licensing and certification surveys. In 2010, the report was revised to include deficiencies from both the annual surveys and complaint investigations. The report findings were then revised for each year from 2005 through 2010.

FINDINGS

DEFICIENCIES FROM QUALITY OF CARE EVALUATION

Average Number of Deficiencies per Certified Nursing Facility

Table 33 shows the U.S. average number of deficiencies per facility was 8.63 deficiencies per facility in 2005 and increased to 9.37 in 2010 (by 8.6 percent). In 2010, the average number of deficiencies varied substantially across the states (from 3.48 in Rhode Island to 25.72 in Washington DC).

Percent of Facilities with No Deficiencies

The percent of facilities reporting no deficiencies in the U.S. fluctuated, but was 5.51 percent in 2005 and 6.11 in 2010 (See Table 33). The percent of facilities with no deficiencies varied from 0 percent in Alaska up to 22.35 percent in Rhode Island in 2010.

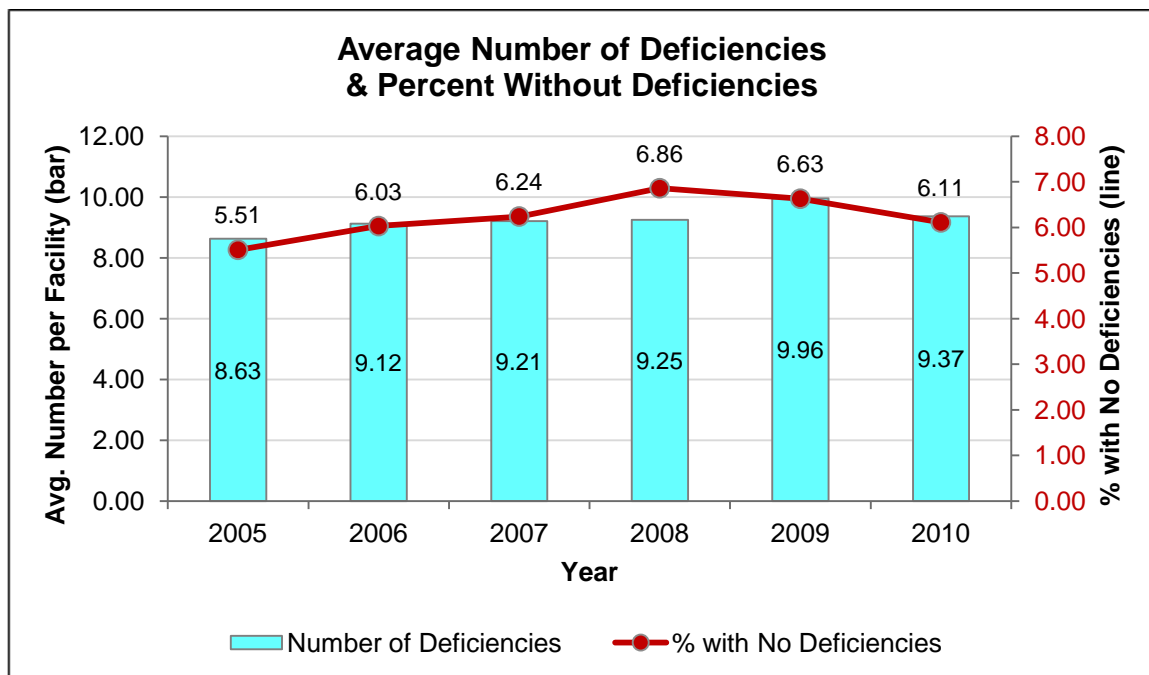


TABLE 33
AVERAGE NUMBER OF DEFICIENCIES PER CERTIFIED NURSING FACILITY
AND PERCENT OF FACILITIES WITH NO DEFICIENCIES

State	Average Deficiencies Per Facility						Pct. of Facilities With No Deficiencies					
	2005	2006	2007	2008	2009	2010	2005	2006	2007	2008	2009	2010
AK	5.60	9.20	7.73	6.64	7.47	8.53	13.33	0.00	0.00	0.00	0.00	0.00
AL	10.76	8.14	8.18	7.89	6.19	6.07	1.61	1.59	2.23	5.66	12.61	9.65
AR	13.16	16.03	12.74	12.17	12.24	10.78	2.52	1.65	0.84	2.12	3.03	3.70
AZ	12.83	11.30	11.29	13.86	17.80	12.10	5.00	4.44	2.34	4.58	0.74	2.90
CA	12.19	13.11	13.39	12.78	12.59	12.42	0.96	1.06	0.73	5.08	1.96	1.06
CO	10.76	11.83	13.61	13.53	16.35	15.73	3.32	3.38	2.86	1.95	0.00	0.95
CT	12.09	14.38	12.89	12.09	11.30	9.94	3.35	0.83	1.26	3.46	4.98	5.98
DC	17.10	18.85	18.00	14.05	22.00	25.72	0.00	0.00	0.00	0.00	0.00	0.00
DE	13.55	19.34	19.93	23.51	16.88	17.70	2.38	0.00	0.00	0.00	2.08	0.00
FL	9.46	10.38	9.80	11.27	10.72	9.25	2.02	2.07	2.11	2.38	2.97	2.64
GA	8.53	8.67	7.62	7.19	7.19	5.28	2.32	3.94	9.92	8.94	10.99	13.38
HI	10.90	8.17	7.27	8.71	10.69	8.29	0.00	0.00	2.44	6.67	2.08	0.00
IA	5.80	6.09	7.23	8.42	9.03	7.90	10.56	11.01	9.01	8.56	4.49	5.43
ID	11.58	11.11	10.01	9.90	13.35	14.00	2.70	0.00	0.00	0.00	1.27	1.27
IL	6.68	7.25	7.95	8.33	9.31	9.67	5.99	8.66	6.46	7.21	5.83	4.59
IN	9.40	9.52	11.62	11.80	12.82	11.80	7.07	7.72	8.06	9.88	7.68	7.86
KS	11.99	13.61	13.61	13.38	15.15	14.95	5.07	4.01	1.78	7.83	5.93	5.31
KY	5.84	7.37	6.68	7.43	7.55	7.76	6.44	8.22	10.34	11.89	10.28	7.63
LA	10.35	9.95	10.90	10.88	12.09	12.39	4.50	6.16	3.51	5.61	3.85	4.26
MA	6.36	6.83	6.40	6.34	6.04	5.75	10.41	11.26	16.02	15.18	18.33	15.62
MD	12.26	14.75	15.08	14.62	15.76	12.97	2.99	1.29	3.48	1.32	3.04	3.24
ME	11.27	11.17	11.91	9.31	9.44	7.41	0.00	0.00	4.50	5.45	5.61	5.56
MI	10.21	9.65	10.57	10.76	13.03	12.80	2.86	2.62	4.02	4.34	2.35	1.86
MN	9.84	11.67	11.55	10.56	11.59	9.87	2.20	0.79	2.11	7.87	2.07	1.81
MO	8.41	8.72	10.93	10.82	11.99	9.57	7.78	8.38	6.07	5.85	3.69	4.30
MS	4.89	5.96	5.94	6.87	8.22	6.82	9.50	7.92	7.39	9.84	6.40	2.48
MT	8.44	8.38	7.57	7.37	9.86	7.66	3.30	4.71	8.05	10.99	2.30	9.47
NC	7.09	7.63	6.59	5.21	5.73	5.65	6.34	6.60	8.21	14.66	14.75	11.35
ND	5.59	5.40	4.40	3.16	7.51	7.16	0.00	1.23	6.25	3.70	4.76	3.49
NE	5.68	7.71	8.74	8.84	7.42	7.49	10.96	7.66	7.76	3.72	7.52	3.60
NH	8.61	5.99	5.95	7.59	6.40	9.00	8.86	22.08	14.81	12.16	12.50	9.75
NJ	6.18	5.94	5.64	6.56	8.46	7.51	5.65	6.13	7.24	6.44	5.03	4.42
NM	10.39	10.69	9.94	8.74	6.10	5.96	5.56	5.63	2.78	7.25	5.63	7.14
NV	12.57	12.98	10.73	11.57	13.54	15.20	8.51	4.26	10.42	2.13	2.00	2.00
NY	5.10	5.81	6.66	5.77	7.57	7.24	4.99	7.30	6.09	9.06	6.76	7.10
OH	6.44	6.41	7.10	7.66	8.48	7.78	8.57	11.03	9.80	10.95	9.15	7.89
OK	9.96	10.97	11.43	13.39	14.32	13.29	4.14	4.48	5.18	7.69	4.97	4.70
OR	6.67	6.82	6.68	6.63	7.18	6.51	18.32	12.41	12.41	11.03	14.60	10.87
PA	6.53	7.07	6.10	6.96	7.55	7.44	5.63	5.21	7.54	6.43	6.29	4.35
RI	5.51	5.00	3.60	4.39	4.30	3.48	7.14	9.20	24.42	11.90	21.95	22.35
SC	11.23	9.61	8.28	7.33	8.28	6.99	4.85	3.55	7.10	10.53	12.29	12.43
SD	4.79	5.30	4.62	4.75	6.02	5.23	8.41	5.61	11.32	12.00	5.45	4.50
TN	8.33	7.71	7.16	7.44	6.08	6.63	3.12	6.48	5.57	4.10	6.05	6.56
TX	9.78	10.04	9.19	7.97	9.20	8.57	4.69	6.83	7.96	12.23	10.90	7.72
UT	6.91	6.13	6.87	6.45	7.10	8.46	10.23	6.38	2.33	13.54	12.37	13.68
VA	7.17	8.54	8.78	8.96	11.36	10.03	12.60	11.85	6.67	11.31	5.34	10.10
VT	11.73	11.30	10.24	8.10	10.31	10.73	5.00	2.50	5.26	7.50	2.56	2.50
WA	9.44	9.59	10.27	10.68	12.62	13.47	3.61	4.56	4.15	3.38	3.42	2.16
WI	5.76	6.05	6.64	7.66	9.49	9.72	14.40	12.99	10.69	10.10	8.88	8.12
WV	10.95	9.20	11.44	10.86	11.91	11.26	1.59	3.94	3.23	5.34	0.00	0.00
WY	11.59	18.26	14.53	12.46	11.08	13.89	0.00	0.00	0.00	0.00	7.89	2.63
US	8.63	9.12	9.21	9.25	9.96	9.37	5.51	6.03	6.24	6.86	6.63	6.11

Percent of Facilities Receiving a Deficiency for Actual Harm or Immediate Jeopardy

Surveyors rate the scope and severity of each deficiency. Table 34 shows the percent of facilities that received one or more deficiencies that caused harm or immediate jeopardy to residents (rated as a G-level deficiency or higher). The average percent was 25.97 in 2005, and was 23.36 in 2010 (a 10 percent decline). Florida identified harm or jeopardy deficiencies in 8.8 percent of facilities compared for 53.6 percent of deficiencies in West Virginia.

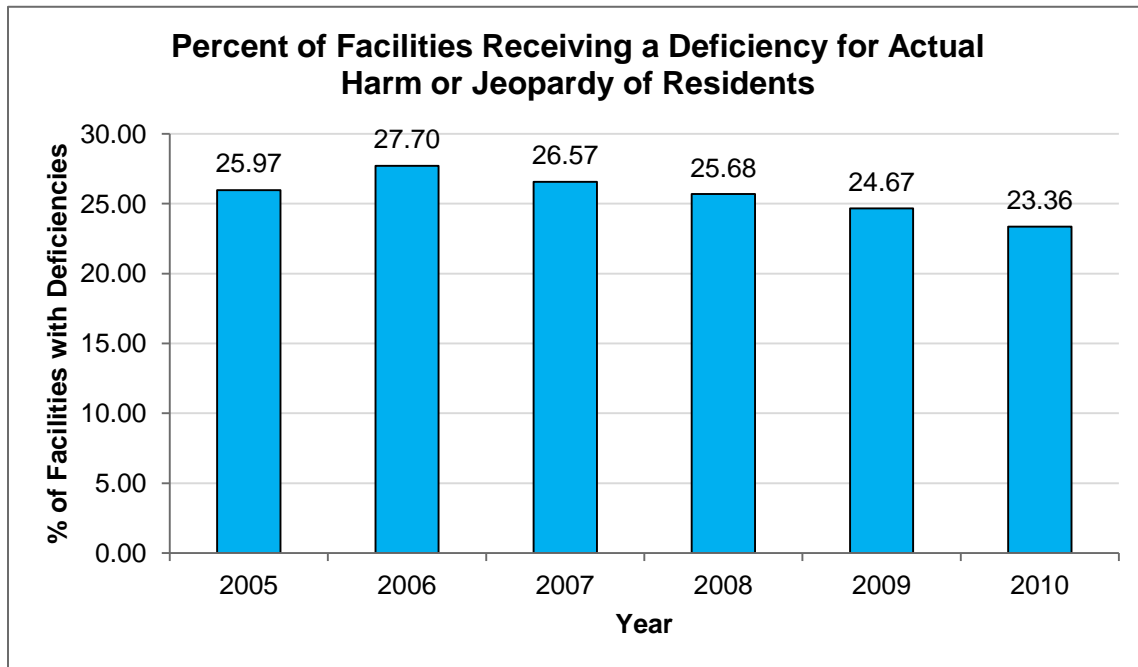


TABLE 34
PERCENT OF FACILITIES RECEIVING A DEFICIENCY
FOR ACTUAL HARM OR JEOPARDY OF RESIDENTS

State	2005	2006	2007	2008	2009	2010
AK	13.33	33.33	40.00	21.43	13.33	33.33
AL	37.63	39.68	21.79	25.00	15.65	11.40
AR	24.37	29.34	32.64	27.97	32.47	32.51
AZ	26.00	32.59	26.56	33.59	29.63	19.57
CA	12.27	18.89	15.80	16.85	11.83	10.74
CO	46.45	49.28	50.00	40.98	42.45	36.02
CT	51.88	56.61	48.74	38.53	34.85	32.91
DC	20.00	30.00	47.37	21.05	21.05	52.22
DE	30.95	54.55	44.44	46.67	39.58	51.35
FL	10.23	11.98	13.08	9.39	8.17	8.78
GA	20.58	21.13	20.11	23.46	18.03	15.09
HI	0.00	4.35	7.32	17.78	10.42	17.07
IA	19.78	25.62	26.80	27.25	20.90	25.11
ID	48.65	42.11	42.25	34.18	49.37	39.24
IL	39.03	41.27	43.29	40.41	42.71	40.05
IN	48.89	51.68	51.87	44.66	39.80	33.99
KS	47.32	44.13	34.32	28.99	31.75	32.15
KY	11.53	18.15	16.90	22.38	21.63	16.90
LA	26.99	22.46	22.46	26.67	24.48	24.47
MA	26.47	30.46	24.71	22.65	24.59	26.11
MD	18.80	25.86	29.57	22.47	20.87	13.89
ME	23.85	24.32	10.81	14.55	19.63	11.11
MI	38.66	45.48	46.10	42.65	44.13	50.82
MN	20.05	26.19	17.37	20.21	20.67	20.47
MO	27.74	24.17	28.77	34.89	32.62	26.56
MS	19.50	12.38	22.17	28.50	23.15	21.29
MT	25.27	16.47	24.14	17.58	16.09	13.95
NC	25.61	25.47	20.77	17.07	17.56	19.15
ND	26.92	18.52	11.25	16.05	14.29	15.12
NE	23.29	32.43	30.59	21.86	16.81	17.12
NH	30.38	22.08	17.28	27.03	11.25	26.25
NJ	24.86	22.84	25.07	28.85	27.37	21.27
NM	50.00	53.52	41.67	40.58	29.58	32.86
NV	21.28	23.40	29.17	25.53	28.00	32.00
NY	20.59	24.69	24.38	19.69	23.11	17.67
OH	18.15	20.57	21.51	24.00	22.35	19.73
OK	28.18	26.27	27.44	33.23	34.16	31.97
OR	32.82	41.61	35.77	33.82	37.96	29.71
PA	20.70	20.85	20.39	22.86	21.54	20.08
RI	13.10	5.75	9.30	19.05	25.61	18.24
SC	30.91	17.75	11.83	17.54	17.32	16.22
SD	14.95	20.56	23.58	26.00	26.36	16.22
TN	20.25	19.44	25.08	22.08	13.69	12.19
TX	29.05	27.15	22.41	18.13	20.95	20.49
UT	20.45	19.15	13.95	11.46	12.37	16.84
VA	22.44	18.52	18.52	14.84	16.37	18.47
VT	45.00	27.50	18.42	20.00	17.95	20.00
WA	42.97	43.57	41.49	45.99	38.03	50.65
WI	30.08	36.62	39.44	37.63	39.43	33.76
WV	19.84	26.77	29.84	16.79	29.13	53.57
WY	24.32	25.71	34.21	33.33	28.95	34.21
US	25.97	27.70	26.57	25.68	24.67	23.36

Percent of Facilities Receiving Substandard Deficiencies

Deficiencies that constitute substandard care are those that have a scope and severity that are rated as having a wide-spread impact with the potential for harm or jeopardy or those that had a pattern of widespread actual harm or cause immediate jeopardy (rated as F, H, I, J, K or L) for any of the following areas: resident behavior and nursing home practices, quality of life, or quality of care.

In 2005, 5.88 facilities had one or more deficiencies that were in the category of substandard deficiencies. This increased to 7.18 percent of facilities in 2010 – a 22 percent increase (See Table 35).

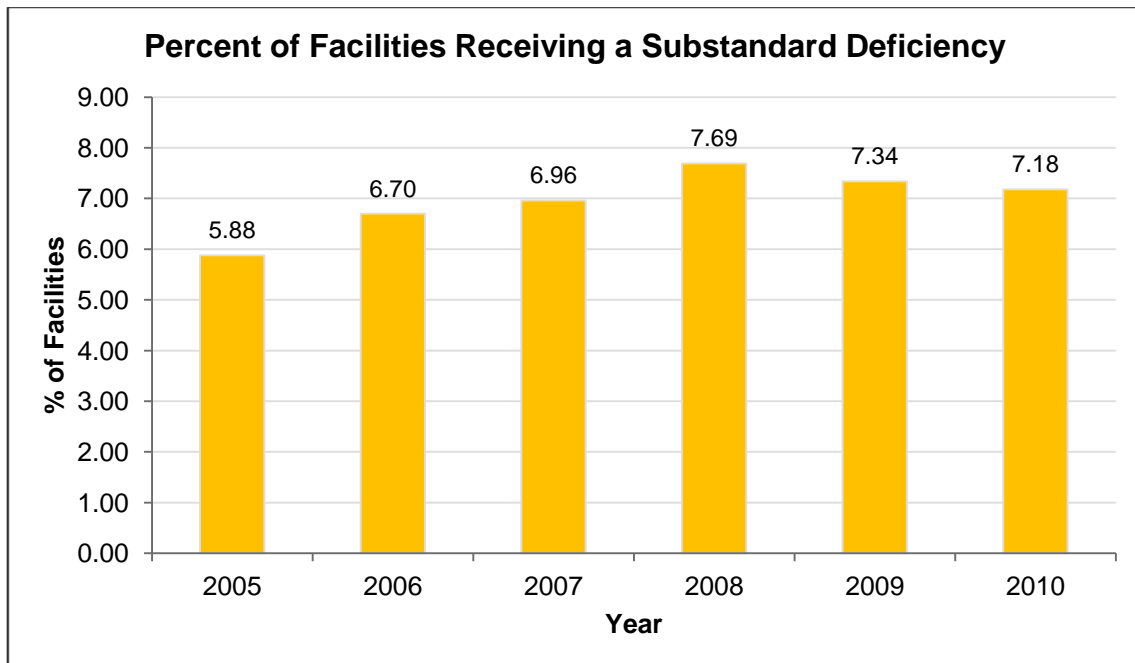
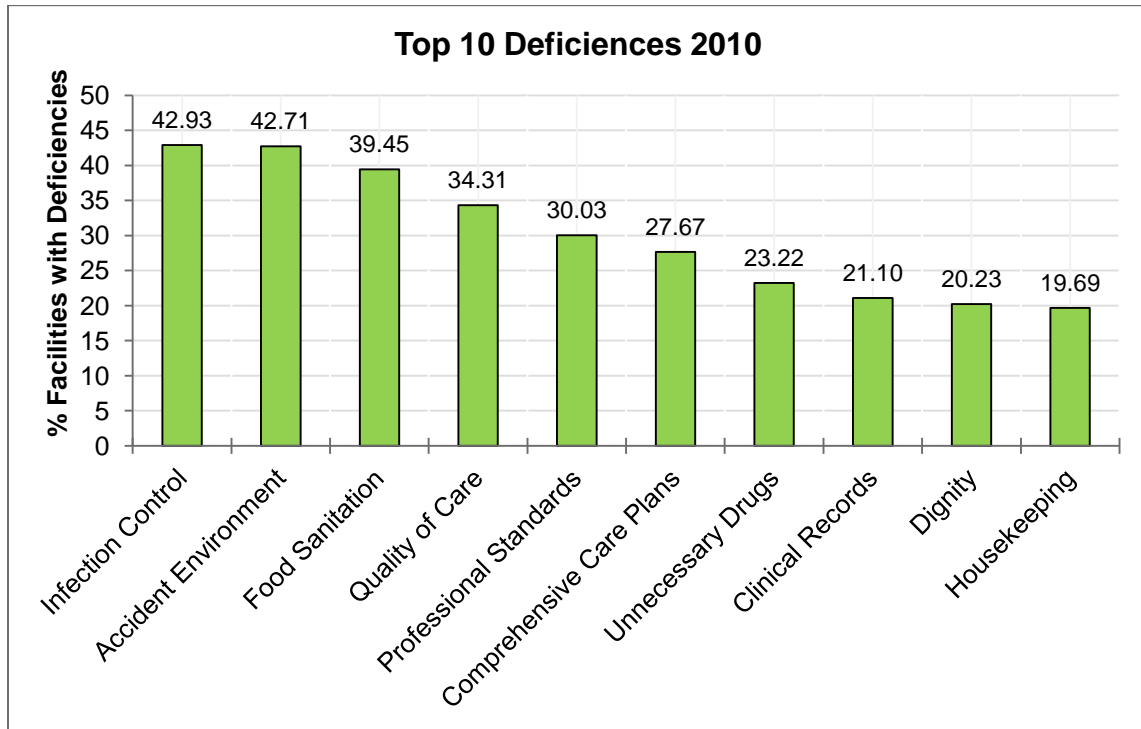


TABLE 35
PERCENT OF FACILITIES RECEIVING A SUBSTANDARD
DEFICIENCY

State	2005	2006	2007	2008	2009	2010
AK	0.00	6.67	6.67	21.43	6.67	13.33
AL	7.53	16.40	8.38	9.43	8.26	5.26
AR	16.81	19.83	21.34	21.19	27.71	27.98
AZ	11.00	8.15	5.47	9.92	9.63	5.07
CA	2.57	3.92	3.42	4.60	3.18	3.25
CO	7.11	5.80	6.19	6.34	4.72	4.74
CT	2.93	4.13	2.94	4.33	4.56	5.98
DC	5.00	25.00	15.79	10.53	0.00	22.22
DE	0.00	0.00	2.22	2.22	0.00	2.70
FL	3.72	4.14	3.76	4.02	1.63	3.37
GA	5.22	4.79	5.10	6.98	7.89	4.14
HI	2.50	6.52	2.44	2.22	4.17	4.88
IA	2.92	3.60	1.80	3.15	0.67	4.07
ID	8.11	10.53	4.23	11.39	11.39	3.80
IL	13.01	14.65	13.67	9.40	8.37	9.06
IN	11.11	13.27	12.97	10.67	7.88	6.48
KS	14.08	14.90	13.61	9.28	8.61	9.14
KY	7.12	8.90	8.62	16.43	12.77	8.45
LA	7.61	4.71	8.42	10.53	6.29	10.99
MA	2.26	3.75	1.83	1.20	1.62	3.26
MD	0.43	2.16	3.04	2.64	3.48	1.85
ME	10.09	13.51	6.31	4.55	8.41	8.33
MI	5.25	8.81	15.60	12.77	11.97	19.28
MN	2.47	5.56	2.63	4.99	7.24	6.22
MO	6.99	6.82	10.18	13.65	12.62	8.20
MS	9.50	1.98	11.82	15.54	7.88	7.92
MT	7.69	9.41	8.05	2.20	3.45	0.00
NC	5.37	8.02	7.97	7.21	6.56	6.86
ND	2.56	0.00	1.25	2.47	1.19	0.00
NE	2.28	3.15	4.11	2.79	1.77	1.35
NH	6.33	5.19	4.94	9.46	2.50	9.00
NJ	3.95	6.13	8.91	10.92	11.17	7.73
NM	15.28	12.68	16.67	11.59	11.27	15.71
NV	2.13	4.26	6.25	4.26	6.00	8.00
NY	5.62	6.21	5.94	6.72	7.23	5.36
OH	2.23	3.61	3.41	4.32	4.26	2.70
OK	12.15	13.13	11.28	20.92	27.95	23.20
OR	6.11	5.11	2.19	3.68	4.38	2.90
PA	1.83	1.69	1.68	1.71	1.54	0.98
RI	1.19	2.30	2.33	8.33	10.98	7.06
SC	11.52	7.10	4.73	5.85	6.70	5.95
SD	2.80	1.87	3.77	0.00	2.73	1.80
TN	6.85	4.94	10.22	11.04	5.41	4.38
TX	5.76	5.86	8.38	12.32	13.37	12.51
UT	6.82	2.13	1.16	1.04	1.03	4.21
VA	1.57	2.22	1.48	2.12	1.42	1.74
VT	5.00	12.50	7.89	0.00	2.56	9.00
WA	4.82	4.98	5.39	8.02	6.41	9.96
WI	9.77	12.21	12.47	12.12	15.67	15.23
WV	3.17	2.36	4.03	6.11	2.36	10.71
WY	8.11	5.71	2.63	2.56	7.89	5.26
US	5.88	6.70	6.96	7.69	7.34	7.18

Top Ten Deficiencies for Certified Facilities in 2010

The top ten most frequently cited deficiencies in the U.S. in 2010 are shown by state on Table 36. The categories with the highest number of deficiencies were given for failures in infection control (42.93 percent); accident environment (42.71 percent); food sanitation (39.45 percent); quality of care (34.31 percent); professional standards (30.03 percent).



Top Ten States Citing the Top Deficiencies in 2010

Table 36 also shows the top ten states in terms of the number of deficiencies, which were issued to nursing facilities for each of the top 10 deficiencies (See states with asterisks). In 2010, District of Columbia had 9, the state with the most deficiencies in the top ten deficiency categories.

**TABLE 36
TOP TEN U.S. DEFICIENCIES BY STATE FOR FACILITIES CERTIFIED
CALENDAR YEAR 2010**

Percent of Facilities with Deficiencies						
	Infection Control (F441)	Accident Environment (F323)	Food Sanitation (F371)	Quality of Care (F309)	Professional Standards (F281)	
AK	66.67 *	40.00	60.00 *	33.33	26.67	
AL	40.35	25.00	42.98	7.89	23.25	
AR	51.85	71.60 *	46.09	53.50 *	3.70	
AZ	40.58	31.88	33.33	45.65	51.45 *	
CA	54.27	45.89	62.57 *	42.39	28.48	
CO	48.82	81.52 *	60.66 *	63.03 *	65.40 *	
CT	25.21	48.72	25.21	51.28 *	62.82 *	
DC	88.89 *	77.78 *	100.00 *	88.89 *	44.44	
DE	51.35	48.65	40.54	75.68 *	40.54	
FL	44.66	30.89	49.19 *	23.87	39.24	
GA	28.11	25.44	22.19	38.76	15.98	
HI	63.41 *	46.34	56.10 *	39.02	2.44	
IA	43.89	50.45	43.67	30.77	45.48	
ID	69.62 *	60.76 *	58.23 *	54.43 *	49.37	
IL	43.88	57.02 *	34.82	40.18	38.39	
IN	45.19	54.42	36.15	25.74	10.41	
KS	37.46	59.88 *	55.16 *	41.89	14.75	
KY	43.31	44.37	48.59	22.54	38.38	
LA	37.94	50.00	46.45	30.85	26.24	
MA	21.68	30.07	13.52	17.25	23.78	
MD	21.76	38.89	37.50	47.22	48.15	
ME	30.56	30.56	37.04	27.78	43.52	
MI	57.58 *	68.53 *	48.72	49.42	49.42	
MN	36.79	49.22	43.01	36.01	5.44	
MO	60.55 *	47.85	42.58	33.98	63.67 *	
MS	51.49	27.72	38.61	13.37	45.54	
MT	37.21	27.91	50.00 *	6.98	40.70	
NC	26.00	23.40	37.59	23.17	33.81	
ND	50.00	58.14 *	39.53	31.40	23.26	
NE	45.05	35.14	47.75	25.68	32.43	
NH	13.75	27.50	32.50	10.00	68.75 *	
NJ	33.70	48.07	36.19	25.41	58.56 *	
NM	15.71	22.86	15.71	21.43	8.57	
NV	78.00 *	48.00	66.00 *	72.00 *	60.00 *	
NY	39.59	35.33	18.93	25.71	40.85	
OH	37.38	39.46	28.87	32.19	17.13	
OK	54.23	42.32	42.63	45.77	2.82	
OR	19.57	39.86	17.39	61.59 *	32.61	
PA	37.78	41.01	36.10	54.07 *	16.71	
RI	5.88	25.88	3.53	2.35	31.76	
SC	51.89	27.03	31.35	27.03	34.59	
SD	58.56 *	21.62	40.54	14.41	46.85	
TN	55.94	35.94	24.06	32.81	25.00	
TX	46.77	27.71	39.63	24.35	4.03	
UT	33.68	38.95	33.68	20.00	4.21	
VA	27.87	42.16	27.53	49.13	41.81	
VT	40.00	35.00	47.50	17.50	77.50 *	
WA	49.78	57.14 *	43.29	52.38 *	61.90 *	
WI	56.09 *	55.84 *	44.67	26.14	13.96	
WV	45.24	52.38	44.05	47.62	35.71	
WY	63.16 *	39.47	44.74	47.37	50.00 *	
US	42.93	42.71	39.45	34.31	30.03	

* The ten states in which the highest percentage of facilities had deficiencies.

**TABLE 36
TOP TEN U.S. DEFICIENCIES BY STATE FOR FACILITIES CERTIFIED
CALENDAR YEAR 2010**

Percent of Facilities with Deficiencies					
	Comprehensive Care Plans (F279)	Unnecessary Drugs (F329)	Clinical Records (F514)	Dignity (F241)	Housekeeping (F253)
AK	13.33	26.67	26.67	13.33	0.00
AL	15.79	3.95	18.42	11.40	13.16
AR	4.12	16.05	6.58	20.16	11.11
AZ	38.41	50.72 *	31.88	22.46	8.70
CA	40.76	31.33	35.48	33.12 *	25.71
CO	56.87 *	40.28 *	25.12	35.55 *	43.60 *
CT	32.48	22.65	25.21	18.80	11.54
DC	94.44 *	50.00 *	94.44 *	33.33 *	100.00 *
DE	64.86 *	54.05 *	45.95 *	40.54 *	40.54 *
FL	33.67	37.77	29.14	29.72	33.09 *
GA	15.98	6.51	8.58	14.79	20.71
HI	21.95	19.51	4.88	46.34 *	12.20
IA	10.63	9.05	6.11	18.33	23.53
ID	15.19	62.03 *	34.18	36.71 *	35.44 *
IL	17.86	18.62	3.57	20.03	18.49
IN	37.33	26.72	42.44 *	21.41	18.27
KS	57.23 *	67.26 *	7.08	33.63 *	35.99 *
KY	20.07	2.82	16.20	10.21	14.08
LA	54.61 *	34.04	35.46	25.18	32.27 *
MA	18.18	14.22	23.78	4.90	5.83
MD	52.31 *	40.74 *	40.74 *	15.28	24.07
ME	37.96	37.04	17.59	16.67	27.78
MI	25.17	41.03 *	10.02	32.40	32.17 *
MN	37.31	48.19 *	4.15	17.88	18.13
MO	24.80	10.16	4.69	20.51	26.17
MS	30.20	4.95	37.62 *	25.25	30.20 *
MT	30.23	33.72	38.37 *	20.93	12.79
NC	14.18	17.49	4.73	13.00	11.35
ND	9.30	26.74	2.33	25.58	6.98
NE	19.37	19.37	18.92	12.16	27.03
NH	22.50	10.00	66.25 *	10.00	11.25
NJ	26.80	20.44	12.71	19.34	16.30
NM	38.57	25.71	10.00	4.29	5.71
NV	64.00 *	36.00	26.00	62.00 *	6.00
NY	18.61	13.09	14.35	17.19	20.98
OH	28.04	30.22	16.61	10.70	16.41
OK	38.87	27.90	38.56 *	25.39	31.35 *
OR	23.19	28.26	13.77	14.49	2.90
PA	24.16	15.87	26.69	21.49	9.69
RI	0.00	7.06	18.82	2.35	14.12
SC	13.51	6.49	12.97	10.27	10.27
SD	24.32	3.60	18.02	8.11	25.23
TN	8.75	1.25	27.19	15.00	4.06
TX	17.80	8.40	22.33	14.78	17.04
UT	26.32	28.42	35.79 *	32.63	16.84
VA	26.13	20.56	51.22 *	16.72	11.85
VT	70.00 *	40.00	25.00	12.50	12.50
WA	41.13 *	43.29 *	17.75	33.33 *	19.48
WI	31.47	20.30	17.51	14.97	9.90
WV	61.90 *	30.95	30.95	22.62	20.24
WY	15.79	36.84	10.53	39.47 *	26.32
US	27.67	23.22	21.10	20.23	19.69

* The ten states in which the highest percentage of facilities had deficiencies.

Selected Deficiencies by State

The following is a presentation of selected deficiencies by state and year. These are presented in the order of the deficiency groups on the survey forms and not based on the number of deficiencies cited. These data show trends over time by state.

Physical Restraints (F221)

Residents have the right to be free of physical restraints imposed for purposes of discipline or convenience and not required to treat the resident's medical symptoms. Restraints are defined as mechanical devices, materials, or equipment that restricts freedom of movement or normal access to one's body. In 2005, 10.61 percent of facilities received deficiencies for this category. Restraint deficiencies decreased to 8.79 percent in 2010 (See Table 37).

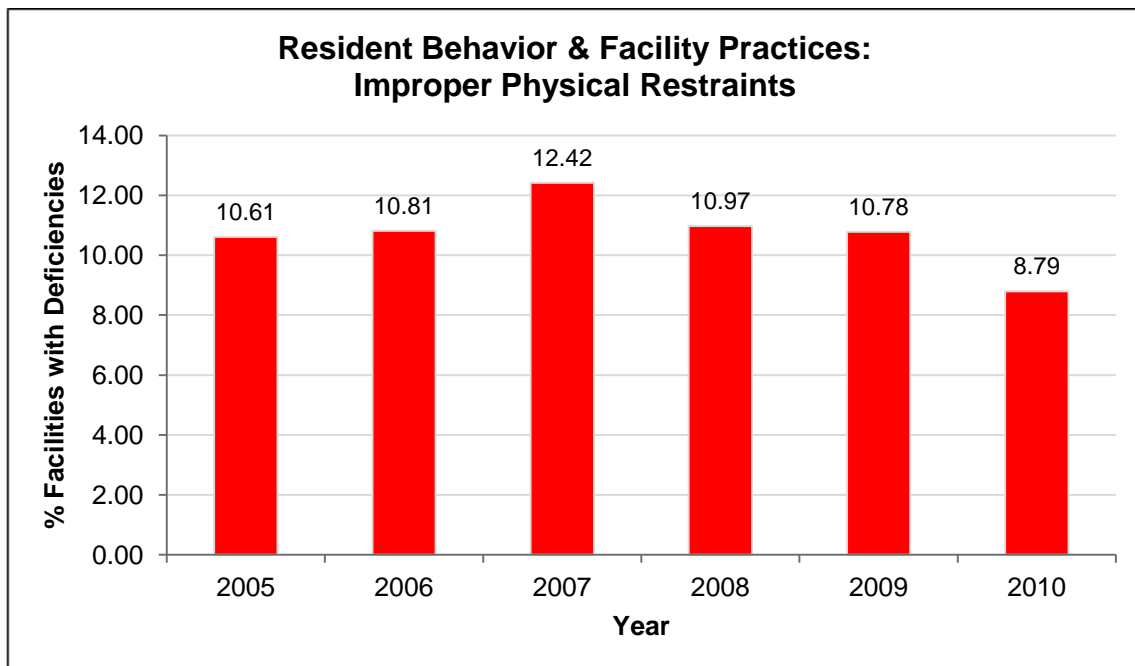


TABLE 37
DEFICIENCY GROUP=RESIDENT BEHAVIOR & FACILITY PRACTICES
PHYSICAL RESTRAINTS (F221)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	0.00	6.67	0.00	7.14	0.00	0.00
AL	6.45	5.82	6.70	5.66	5.65	2.63
AR	20.59	21.07	21.76	22.46	19.05	17.70
AZ	23.00	13.33	12.50	8.40	13.33	7.97
CA	15.80	18.81	26.14	19.27	22.76	17.33
CO	17.54	14.98	17.14	18.05	14.62	15.64
CT	24.69	23.14	16.81	8.66	6.22	4.27
DC	35.00	15.00	21.05	10.53	31.58	16.67
DE	4.76	20.45	8.89	15.56	8.33	8.11
FL	7.29	7.10	6.92	5.51	2.97	1.76
GA	9.86	6.48	5.67	11.73	8.17	3.55
HI	25.00	23.91	21.95	24.44	22.92	19.51
IA	5.39	8.76	8.78	8.11	6.52	5.88
ID	5.41	6.58	4.23	11.39	5.06	8.86
IL	11.10	12.61	15.57	14.29	12.93	16.84
IN	10.91	13.86	15.52	18.77	17.37	11.79
KS	17.18	11.75	9.76	10.43	11.57	8.55
KY	12.88	14.38	12.07	8.74	6.38	4.58
LA	11.07	7.97	16.49	11.58	11.89	7.09
MA	8.82	6.62	5.26	2.89	5.10	4.20
MD	4.27	7.33	4.78	7.93	6.52	2.78
ME	3.67	5.41	9.91	0.91	2.80	1.85
MI	7.64	7.14	8.75	9.64	9.39	13.52
MN	15.38	21.96	23.68	13.12	13.18	7.25
MO	10.98	13.06	20.74	24.37	20.58	13.48
MS	8.50	8.91	6.90	10.36	13.30	8.91
MT	1.10	2.35	3.45	7.69	12.64	8.14
NC	7.07	11.32	15.94	6.97	8.67	2.84
ND	5.13	9.88	3.75	3.70	7.14	9.30
NE	4.57	5.86	5.48	5.58	2.65	3.60
NH	6.33	0.00	4.94	0.00	3.75	6.25
NJ	5.93	5.29	3.06	3.08	1.96	2.21
NM	5.56	5.63	9.72	11.59	4.23	4.29
NV	23.40	8.51	8.33	19.15	16.00	12.00
NY	8.27	7.92	9.69	8.28	13.05	9.15
OH	11.92	11.24	14.59	12.53	13.72	11.42
OK	13.26	12.24	22.26	25.23	24.84	16.30
OR	9.16	5.84	9.49	5.88	8.76	4.35
PA	8.87	8.59	7.40	7.43	6.43	5.90
RI	1.19	2.30	5.81	2.38	1.22	0.00
SC	7.88	7.10	7.69	4.68	7.26	5.41
SD	12.15	16.82	9.43	11.00	8.18	7.21
TN	11.84	9.57	9.91	13.25	10.51	11.88
TX	12.84	11.36	12.57	7.89	6.73	6.63
UT	3.41	3.19	5.81	4.17	7.22	8.42
VA	5.91	3.33	4.81	5.65	4.27	3.83
VT	10.00	17.50	15.79	15.00	15.38	10.00
WA	4.02	4.15	4.56	4.22	4.27	4.76
WI	4.88	6.23	4.58	6.06	7.57	7.87
WV	8.73	4.72	6.45	7.63	4.72	7.14
WY	16.22	22.86	10.53	7.69	7.89	5.26
US	10.61	10.81	12.42	10.97	10.78	8.79

Dignity (F241)

Facilities must promote care for residents in a manner and in an environment that maintains or enhances dignity and respect in full recognition of his or her individuality. This involves assisting residents to be well groomed, dress appropriately, promote independence in dining, allowing private space and property, speaking and listening respectfully, and focusing on the individual's communication. In 2005, 17.50 percent of facilities received deficiencies for failure to maintain or enhance dignity and this increased to 20.23 percent in 2010 (See Table 38).

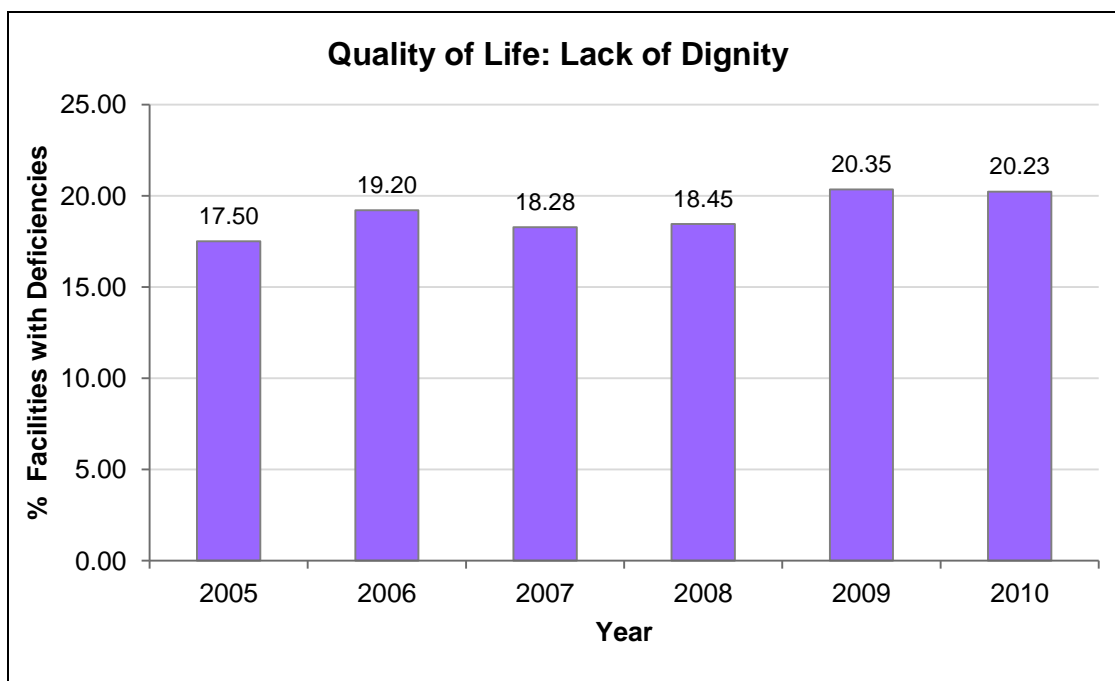


TABLE 38
DEFICIENCY GROUP=QUALITY OF LIFE
DIGNITY (F241)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	26.67	60.00	40.00	21.43	26.67	13.33
AL	26.34	16.93	12.29	8.49	8.26	11.40
AR	28.99	35.12	25.52	21.19	32.90	20.16
AZ	23.00	17.78	12.50	22.14	28.15	22.46
CA	32.08	36.22	39.09	35.81	31.40	33.12
CO	36.49	31.88	30.00	29.76	32.55	35.55
CT	32.64	32.23	23.95	28.57	26.97	18.80
DC	30.00	35.00	15.79	31.58	21.05	33.33
DE	26.19	50.00	40.00	62.22	39.58	40.54
FL	30.39	30.62	25.71	29.51	31.35	29.72
GA	11.88	14.37	13.60	14.80	10.70	14.79
HI	50.00	43.48	41.46	40.00	47.92	46.34
IA	8.54	8.54	10.59	15.32	15.73	18.33
ID	27.03	35.53	28.17	34.18	41.77	36.71
IL	11.35	11.59	10.76	12.74	16.22	20.03
IN	8.08	14.46	13.95	20.16	24.24	21.41
KS	19.72	25.79	24.56	20.29	27.89	33.63
KY	8.47	11.30	9.31	6.99	7.80	10.21
LA	26.64	29.35	27.37	23.16	27.27	25.18
MA	6.11	7.06	7.09	5.06	4.41	4.90
MD	18.38	22.84	16.09	16.30	16.96	15.28
ME	12.84	23.42	20.72	19.09	24.30	16.67
MI	24.34	22.62	25.77	27.71	28.64	32.40
MN	25.82	28.84	21.32	19.69	20.67	17.88
MO	14.37	18.52	21.72	18.52	23.30	20.51
MS	10.00	12.38	14.29	17.62	26.60	25.25
MT	8.79	10.59	9.20	5.49	18.39	20.93
NC	18.29	20.05	16.18	8.41	13.82	13.00
ND	11.54	18.52	16.25	8.64	15.48	25.58
NE	5.48	3.60	10.05	6.05	6.19	12.16
NH	7.59	5.19	8.64	4.05	1.25	10.00
NJ	8.76	12.26	11.14	19.61	20.11	19.34
NM	23.61	23.94	25.00	24.64	7.04	4.29
NV	34.04	40.43	22.92	42.55	58.00	62.00
NY	11.54	11.96	15.94	14.06	19.03	17.19
OH	11.47	12.09	10.76	11.37	11.75	10.70
OK	19.89	20.60	13.41	15.08	21.12	25.39
OR	10.69	8.03	14.60	8.82	10.22	14.49
PA	11.83	15.21	12.57	15.43	20.98	21.49
RI	16.67	13.79	4.65	10.71	8.54	2.35
SC	18.18	12.43	15.98	15.79	16.76	10.27
SD	10.28	13.08	11.32	8.00	9.09	8.11
TN	14.02	17.28	13.93	13.88	8.28	15.00
TX	14.88	13.58	14.37	11.62	15.16	14.78
UT	27.27	25.53	20.93	23.96	32.99	32.63
VA	7.87	12.22	18.52	21.55	22.42	16.72
VT	40.00	35.00	18.42	20.00	15.38	12.50
WA	20.08	21.16	26.14	21.52	32.48	33.33
WI	12.08	18.44	14.50	19.44	18.80	14.97
WV	28.57	23.62	27.42	35.88	31.50	22.62
WY	29.73	54.29	50.00	38.46	39.47	39.47
US	17.50	19.20	18.28	18.45	20.35	20.23

Activities Program (F248)

Facilities must provide residents with ongoing activities that meet the interests and the physical, mental, and psychosocial well-being needs of each resident. In 2005, 6.70 percent of facilities in the U.S. were given deficiencies in this category while 7.30 percent received deficiencies in 2010 (See Table 39).

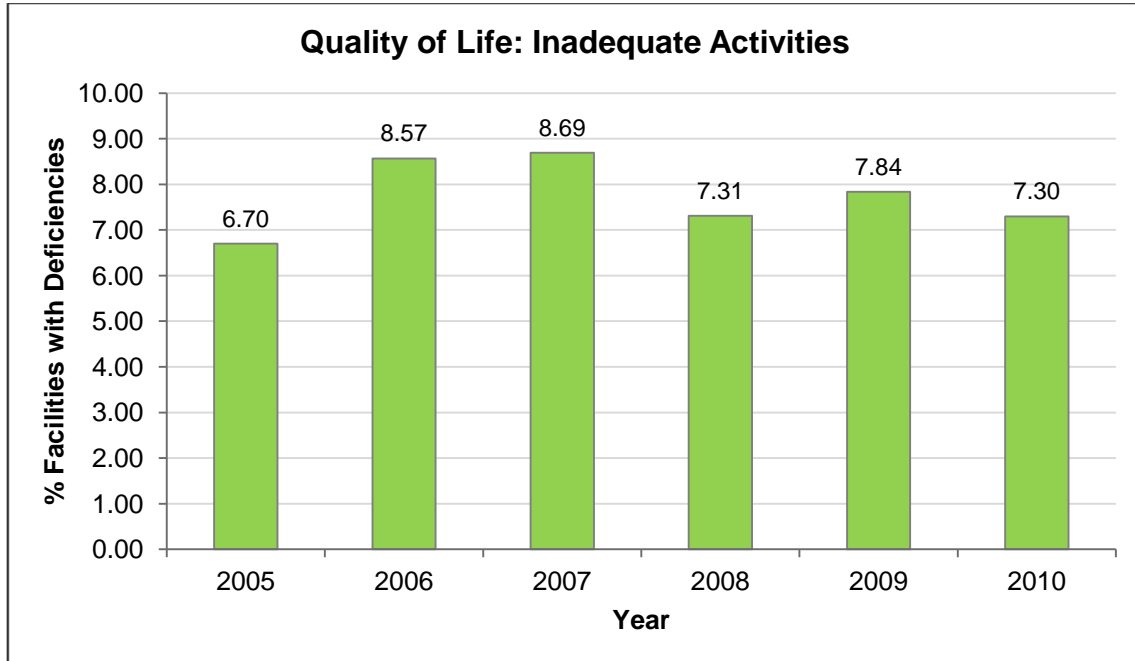


TABLE 39
DEFICIENCY GROUP=QUALITY OF LIFE
ACTIVITIES PROGRAM (F248)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	6.67	20.00	20.00	0.00	13.33	13.33
AL	8.60	11.11	17.88	5.66	2.17	0.44
AR	6.30	11.16	9.62	5.51	9.96	7.41
AZ	10.00	11.11	5.47	5.34	9.63	5.07
CA	9.30	9.98	10.50	11.85	11.58	12.86
CO	15.64	23.19	23.81	25.37	21.70	26.07
CT	3.35	6.20	4.62	6.93	5.81	3.85
DC	0.00	5.00	0.00	5.26	10.53	5.56
DE	9.52	11.36	28.89	24.44	18.75	10.81
FL	7.75	8.88	8.72	9.54	6.69	4.98
GA	5.51	4.51	3.97	3.07	3.38	3.25
HI	25.00	30.43	34.15	22.22	29.17	14.63
IA	5.62	6.74	5.18	7.43	7.64	4.98
ID	12.16	18.42	15.49	12.66	12.66	16.46
IL	5.10	8.92	10.51	9.14	9.25	9.44
IN	10.91	12.48	9.04	6.32	10.10	8.84
KS	16.34	17.19	17.46	15.36	16.62	17.99
KY	4.75	6.16	3.79	5.59	4.96	4.93
LA	9.34	9.06	6.67	8.77	10.14	12.06
MA	2.04	4.42	3.89	3.13	3.25	3.03
MD	3.42	3.02	3.04	0.44	3.91	0.93
ME	1.83	5.41	9.01	3.64	3.74	3.70
MI	7.40	7.14	8.51	7.71	7.98	7.23
MN	9.89	10.32	11.05	11.29	7.49	8.03
MO	9.18	12.87	12.72	9.16	11.07	9.57
MS	1.00	3.96	6.40	7.25	6.40	3.96
MT	5.49	2.35	5.75	4.40	13.79	8.14
NC	2.20	7.55	5.80	3.37	3.75	3.78
ND	3.85	8.64	10.00	4.94	13.10	22.09
NE	3.20	7.21	10.05	8.37	5.75	7.66
NH	1.27	1.30	3.70	1.35	2.50	2.50
NJ	2.26	4.46	5.85	3.92	10.61	4.97
NM	11.11	15.49	12.50	13.04	1.41	2.86
NV	10.64	14.89	16.67	12.77	18.00	22.00
NY	3.28	4.66	8.91	3.13	6.13	4.10
OH	7.24	8.70	7.77	5.68	7.28	5.61
OK	6.08	11.34	15.85	9.54	16.46	18.18
OR	11.45	7.30	4.38	2.94	5.84	7.25
PA	4.08	5.49	4.19	5.57	5.45	4.78
RI	0.00	4.60	6.98	1.19	3.66	1.18
SC	9.70	7.69	2.37	6.43	5.59	3.78
SD	0.93	2.80	6.60	3.00	4.55	5.41
TN	7.79	7.72	7.74	5.99	2.23	2.50
TX	7.97	9.67	9.84	6.50	5.37	5.79
UT	3.41	2.13	4.65	5.21	9.28	13.68
VA	2.36	4.44	8.89	6.01	1.42	1.39
VT	2.50	7.50	2.63	5.00	12.82	5.00
WA	8.03	13.28	11.62	9.28	15.81	12.55
WI	4.37	6.23	2.80	1.77	2.09	2.28
WV	5.56	4.72	5.65	12.21	5.51	4.76
WY	16.22	22.86	13.16	5.13	13.16	21.05
US	6.70	8.57	8.69	7.31	7.84	7.30

Housekeeping (F253)

Housekeeping and maintenance services must be provided to maintain a sanitary, orderly, and comfortable environment. In 2005, 21.66 percent of facilities received deficiencies for failing to meet this requirement, which decreased to 19.69 in 2010 (See Table 40).

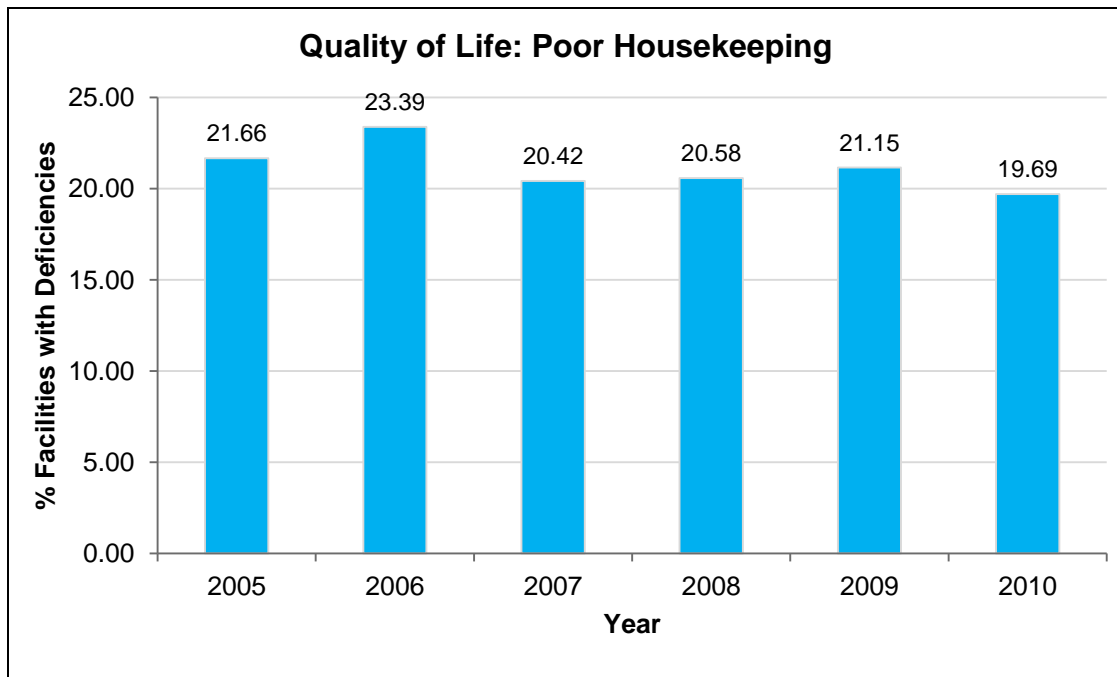


TABLE 40
DEFICIENCY GROUP=QUALITY OF LIFE
HOUSEKEEPING (F253)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	26.67	0.00	13.33	0.00	0.00	0.00
AL	17.74	17.99	11.73	18.87	11.30	13.16
AR	45.80	57.02	16.32	10.17	16.45	11.11
AZ	37.00	43.70	17.97	15.27	13.33	8.70
CA	25.98	27.72	29.23	28.06	30.10	25.71
CO	31.28	31.88	24.29	31.71	39.62	43.60
CT	13.81	13.64	21.43	17.75	17.01	11.54
DC	95.00	95.00	73.68	63.16	89.47	100.00
DE	40.48	56.82	51.11	57.78	43.75	40.54
FL	33.64	35.50	32.03	36.96	35.66	33.09
GA	45.22	45.35	35.69	40.78	34.08	20.71
HI	7.50	2.17	0.00	2.22	8.33	12.20
IA	13.03	16.63	19.14	15.77	20.90	23.53
ID	29.73	31.58	22.54	35.44	29.11	35.44
IL	15.69	18.22	19.49	16.47	19.26	18.49
IN	25.86	26.73	23.77	17.00	18.59	18.27
KS	31.27	36.39	39.35	36.23	38.87	35.99
KY	38.98	40.41	36.55	20.28	24.82	14.08
LA	15.57	22.46	21.05	30.53	27.27	32.27
MA	6.33	6.62	7.09	7.47	7.89	5.83
MD	10.68	32.33	27.83	35.68	31.30	24.07
ME	29.36	27.03	24.32	24.55	25.23	27.78
MI	26.25	28.33	27.66	31.08	33.10	32.17
MN	13.19	13.23	11.32	14.17	15.25	18.13
MO	4.79	7.60	12.33	26.32	28.54	26.17
MS	9.00	8.42	11.82	24.35	18.23	30.20
MT	28.57	36.47	19.54	24.18	28.74	12.79
NC	18.54	18.16	12.80	11.54	9.60	11.35
ND	7.69	8.64	6.25	1.23	8.33	6.98
NE	22.83	25.23	28.31	39.53	25.22	27.03
NH	11.39	5.19	3.70	5.41	2.50	11.25
NJ	11.02	9.75	7.52	15.13	17.60	16.30
NM	13.89	15.49	19.44	5.80	5.63	5.71
NV	6.38	8.51	8.33	6.38	4.00	6.00
NY	15.13	18.79	15.78	17.03	23.27	20.98
OH	17.93	22.06	19.06	18.00	17.46	16.41
OK	40.61	47.16	31.40	35.38	36.34	31.35
OR	9.16	3.65	2.19	0.00	4.38	2.90
PA	8.59	11.27	10.75	9.00	7.83	9.69
RI	23.81	16.09	10.47	7.14	8.54	14.12
SC	37.58	39.64	31.95	14.62	12.29	10.27
SD	19.63	34.58	29.25	19.00	31.82	25.23
TN	10.59	8.95	7.74	10.41	4.78	4.06
TX	37.11	31.50	22.41	15.78	16.61	17.04
UT	20.45	24.47	19.77	25.00	20.62	16.84
VA	6.69	7.04	10.37	13.07	19.93	11.85
VT	22.50	22.50	28.95	12.50	15.38	12.50
WA	24.50	27.80	30.71	27.00	26.92	19.48
WI	13.88	9.87	8.65	12.12	8.62	9.90
WV	7.94	5.51	8.06	5.34	14.96	20.24
WY	32.43	62.86	13.16	28.21	23.68	26.32
US	21.66	23.39	20.42	20.58	21.15	19.69

Activities of Daily Living Services (F312)

Residents who are unable to carry out activities of daily living (ADL) should be given the necessary services to maintain nutrition, grooming, and personal and oral hygiene. In 2005, 14.08 percent of facilities were given deficiencies for this category compared with 14.22 percent of facilities in 2010 (See Table 41).

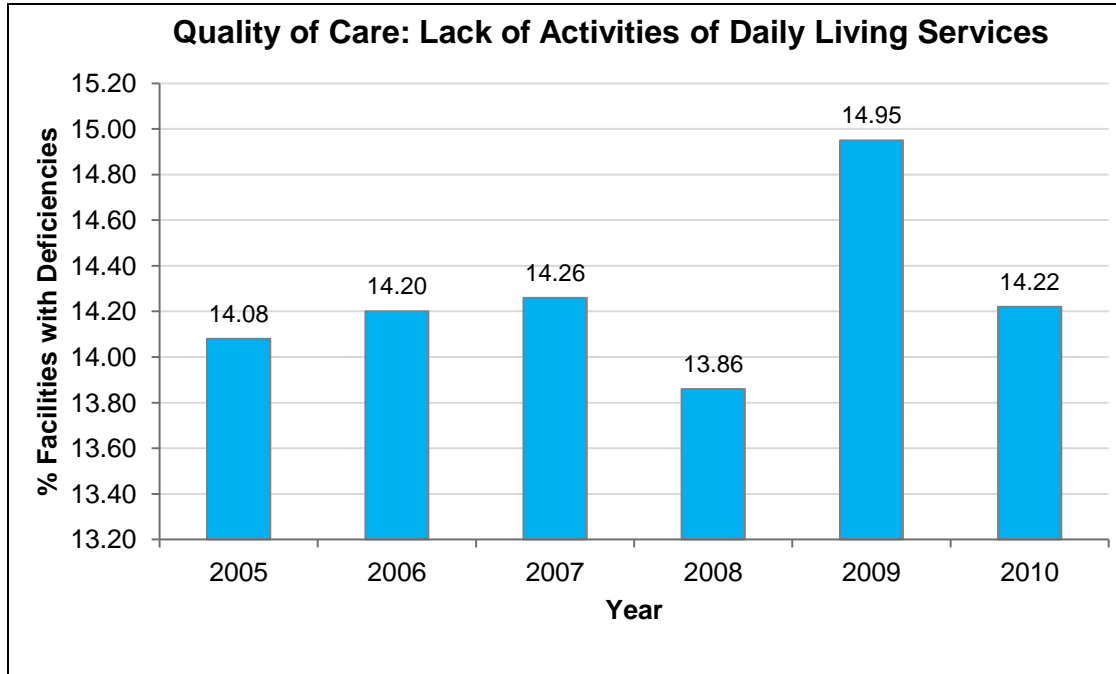


TABLE 41
DEFICIENCY GROUP=QUALITY OF CARE
ACTIVITIES OF DAILY LIVING SERVICES (F312)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	6.67	20.00	6.67	7.14	6.67	0.00
AL	22.58	17.46	13.97	11.32	4.78	7.02
AR	52.10	67.36	62.34	54.24	58.01	53.50
AZ	9.00	9.63	3.91	9.16	8.89	10.14
CA	9.54	10.55	11.24	9.76	10.44	9.19
CO	24.17	26.09	36.19	24.39	17.92	19.91
CT	20.08	14.46	17.23	17.32	13.28	12.82
DC	10.00	0.00	10.53	0.00	10.53	11.11
DE	4.76	15.91	24.44	35.56	33.33	27.03
FL	7.91	9.62	11.58	11.48	12.63	10.69
GA	13.91	12.39	10.20	9.50	11.83	9.17
HI	0.00	2.17	4.88	6.67	12.50	12.20
IA	25.62	26.97	20.95	32.66	45.39	41.63
ID	22.97	26.32	15.49	13.92	15.19	22.78
IL	15.05	11.08	14.18	17.63	17.87	17.60
IN	11.92	13.66	16.11	16.01	16.16	13.56
KS	33.24	37.25	33.43	31.01	32.64	37.17
KY	6.44	7.53	8.97	4.20	7.45	3.52
LA	14.19	11.23	12.98	11.23	12.94	17.38
MA	2.04	2.87	3.20	2.65	4.18	5.13
MD	2.56	3.45	6.09	3.96	6.96	6.94
ME	1.83	3.60	1.80	5.45	2.80	2.78
MI	14.08	14.29	12.06	13.49	19.48	18.88
MN	26.65	26.72	29.74	26.51	20.16	15.03
MO	32.93	34.70	37.38	38.21	44.08	35.55
MS	5.00	4.46	1.97	1.55	5.42	3.47
MT	10.99	4.71	6.90	8.79	3.45	3.49
NC	19.02	21.70	23.43	22.84	14.99	21.28
ND	12.82	7.41	8.75	3.70	16.67	16.28
NE	10.96	10.81	13.70	12.56	8.41	9.01
NH	3.80	2.60	1.23	0.00	0.00	1.25
NJ	8.76	7.80	6.13	7.56	9.22	5.25
NM	6.94	12.68	9.72	5.80	2.82	2.86
NV	8.51	2.13	4.17	8.51	4.00	2.00
NY	7.49	6.21	7.34	5.00	7.70	6.47
OH	8.35	7.64	10.22	7.47	10.08	7.48
OK	19.34	25.07	23.78	27.69	26.40	36.99
OR	10.69	6.57	4.38	2.21	2.92	7.97
PA	6.34	5.63	5.17	7.43	6.01	6.88
RI	7.14	4.60	1.16	1.19	1.22	0.00
SC	10.91	8.88	3.55	2.34	4.47	2.16
SD	0.00	0.93	1.89	4.00	2.73	0.00
TN	19.00	12.96	8.05	11.99	13.38	10.63
TX	16.74	16.50	14.11	9.19	11.16	11.00
UT	4.55	4.26	5.81	4.17	6.19	6.32
VA	12.99	13.33	12.22	14.84	17.44	9.41
VT	27.50	20.00	42.11	10.00	12.82	0.00
WA	14.06	15.35	17.01	15.61	18.80	23.81
WI	9.77	9.61	7.63	13.38	15.93	15.74
WV	10.32	9.45	9.68	9.92	11.02	19.05
WY	40.54	54.29	47.37	43.59	42.11	44.74
US	14.08	14.20	14.26	13.86	14.95	14.22

Pressure Sores (F314)

Facilities must ensure that residents without pressure sores do not develop them if it is avoidable. In 2005, 19.29 percent of facilities received deficiencies for failing to meet this standard (See Table 42). Although violations for pressure sores have fluctuated since 2005, the percent of facilities cited for this violation was 19.43 in 2010.

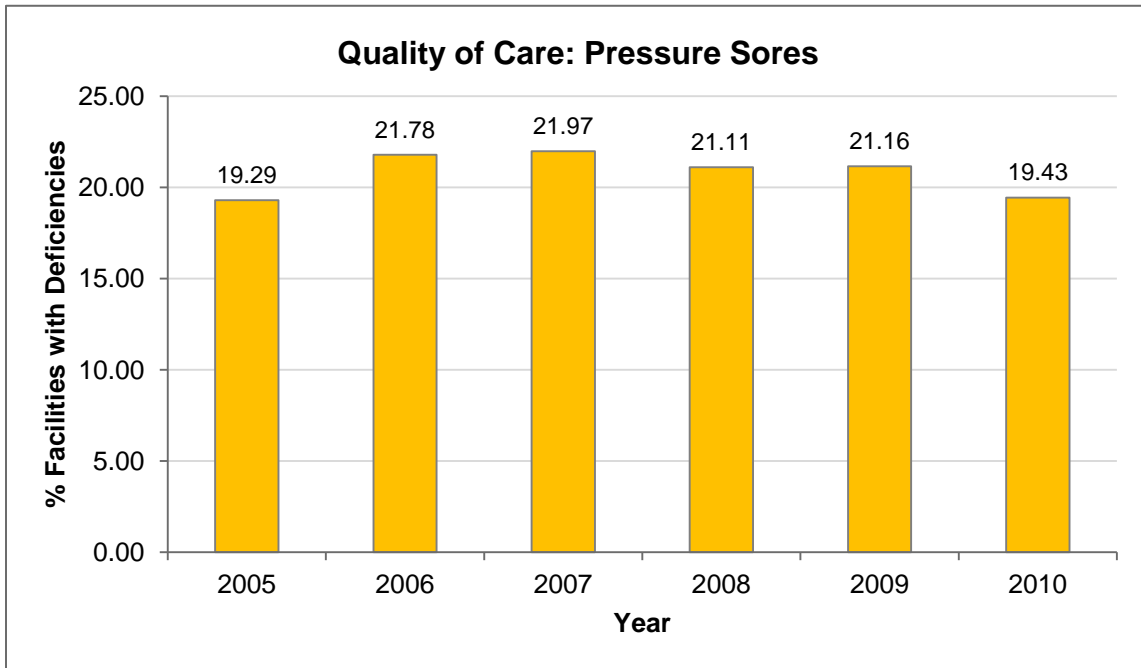


TABLE 42
DEFICIENCY GROUP=QUALITY OF CARE
PRESSURE SORES (F314)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	0.00	0.00	6.67	7.14	0.00	0.00
AL	16.13	16.40	15.64	12.26	18.26	14.47
AR	28.57	35.95	55.23	47.46	46.75	46.91
AZ	17.00	13.33	18.75	22.14	33.33	25.36
CA	18.12	20.61	21.74	20.73	19.17	19.45
CO	22.27	26.09	27.14	26.34	27.36	28.91
CT	36.82	39.67	37.82	29.00	27.39	28.21
DC	40.00	35.00	36.84	26.32	26.32	27.78
DE	33.33	40.91	35.56	44.44	27.08	24.32
FL	8.99	12.13	14.29	15.50	12.78	10.40
GA	27.25	23.66	20.40	24.30	21.41	13.31
HI	15.00	6.52	9.76	11.11	18.75	17.07
IA	11.01	12.81	18.92	18.69	15.73	15.61
ID	48.65	46.05	33.80	30.38	48.10	39.24
IL	25.51	26.75	29.87	28.31	28.52	28.57
IN	23.03	27.52	33.01	30.83	29.09	28.29
KS	47.89	46.42	42.31	41.45	38.58	36.28
KY	6.78	9.93	13.79	11.19	8.16	6.69
LA	21.45	20.29	24.56	19.65	19.23	18.44
MA	10.18	11.26	10.07	7.23	7.89	10.72
MD	20.51	13.36	19.57	13.66	18.70	13.43
ME	46.79	35.14	18.02	20.91	17.76	16.67
MI	21.48	25.24	24.35	22.89	30.75	30.54
MN	38.74	74.34	66.84	46.46	43.41	26.68
MO	27.54	26.71	30.92	32.16	34.37	30.86
MS	4.00	6.44	7.88	8.81	6.40	5.94
MT	4.40	8.24	14.94	3.30	9.20	6.98
NC	9.02	10.61	9.90	12.50	10.07	9.22
ND	20.51	19.75	8.75	6.17	10.71	12.79
NE	15.07	17.57	21.92	19.07	18.14	15.32
NH	18.99	12.99	9.88	10.81	11.25	13.75
NJ	22.60	20.06	18.66	17.93	18.16	14.36
NM	23.61	21.13	26.39	17.39	8.45	8.57
NV	25.53	21.28	14.58	19.15	22.00	18.00
NY	17.94	21.43	20.16	14.69	17.92	16.56
OH	17.37	21.21	23.54	24.11	26.82	23.57
OK	12.71	16.72	15.55	24.62	18.94	18.81
OR	17.56	22.63	14.60	18.38	22.63	21.01
PA	15.07	17.18	11.87	15.57	15.10	15.45
RI	11.90	11.49	9.30	15.48	10.98	5.88
SC	21.21	22.49	22.49	19.88	20.67	15.68
SD	5.61	10.28	4.72	2.00	5.45	7.21
TN	17.13	13.58	9.91	7.57	10.83	8.44
TX	16.39	20.76	15.06	13.27	14.40	13.35
UT	2.27	2.13	3.49	8.33	9.28	15.79
VA	20.47	21.48	21.48	23.67	18.86	19.16
VT	17.50	27.50	21.05	15.00	10.26	10.00
WA	24.50	25.73	27.80	29.11	30.34	28.57
WI	14.14	16.10	21.37	29.29	29.24	26.90
WV	6.35	8.66	12.90	19.08	14.96	10.71
WY	21.62	28.57	18.42	28.21	34.21	26.32
US	19.29	21.78	21.97	21.11	21.16	19.43

Bladder Incontinence Care (F315)

Residents who have bladder incontinence should receive appropriate treatment and services to prevent incontinence and to restore as much bladder functioning as possible. In 2005, 16.94 percent of facilities received deficiencies for this standard compared with 18.10 percent in 2010 (See Table 43).

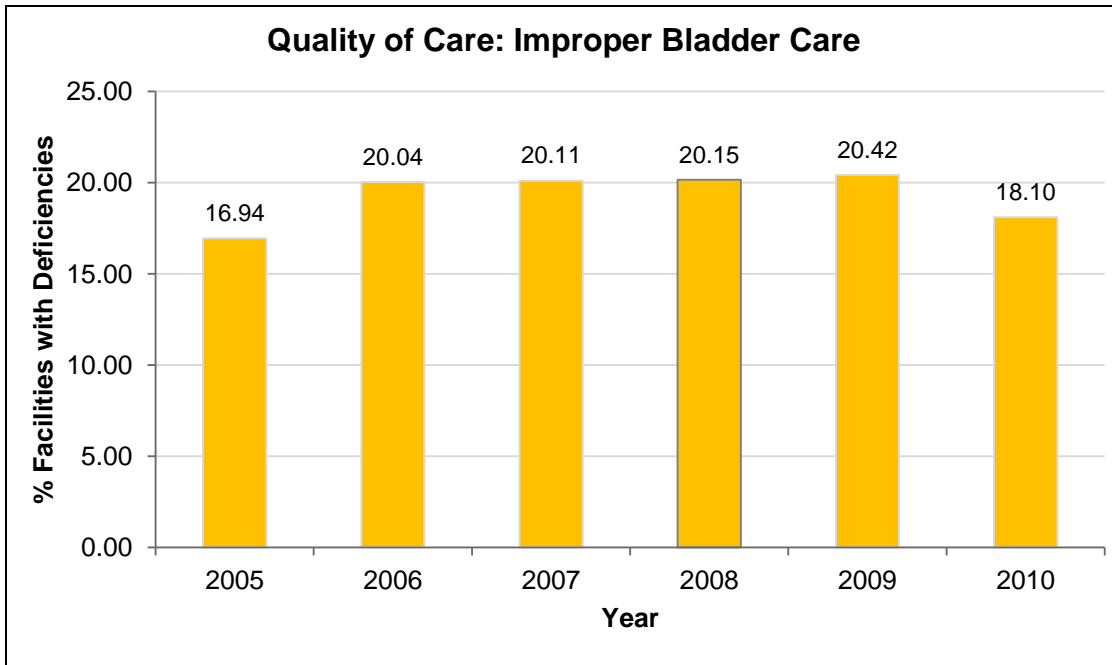


TABLE 43
DEFICIENCY GROUP=QUALITY OF CARE
Urinary/Incontinence Care (F315)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	0.00	6.67	6.67	0.00	0.00	6.67
AL	19.89	19.05	17.32	18.40	28.26	28.07
AR	40.76	38.43	37.66	33.90	31.17	29.63
AZ	16.00	21.48	28.91	27.48	28.15	13.77
CA	24.05	26.41	25.00	24.27	23.41	23.76
CO	16.11	26.57	35.71	31.22	41.04	35.55
CT	20.50	20.66	19.33	21.21	19.50	16.67
DC	5.00	15.00	10.53	5.26	0.00	0.00
DE	26.19	45.45	28.89	26.67	27.08	18.92
FL	16.90	20.71	26.62	22.50	16.94	14.79
GA	28.41	34.65	36.26	33.24	29.58	15.09
HI	22.50	32.61	31.71	24.44	20.83	17.07
IA	11.46	9.89	10.81	23.65	17.30	13.57
ID	35.13	32.89	40.85	30.38	25.32	26.58
IL	15.44	16.56	22.28	21.62	21.55	22.58
IN	21.42	23.56	30.65	28.06	23.43	20.43
KS	54.36	61.32	44.08	39.42	40.65	32.74
KY	9.83	15.75	13.79	11.19	12.41	13.03
LA	10.04	8.33	13.33	13.68	18.18	14.89
MA	9.73	11.04	10.30	8.19	11.14	10.02
MD	13.25	12.93	21.74	16.30	16.96	15.74
ME	25.69	44.14	34.23	28.18	32.71	15.74
MI	13.36	10.24	13.71	16.39	15.73	17.02
MN	43.41	78.04	61.84	49.61	44.19	25.13
MO	17.77	23.59	23.29	26.71	33.98	30.08
MS	4.50	7.43	8.87	12.44	11.82	16.34
MT	9.89	7.06	11.49	3.30	8.05	1.16
NC	10.00	12.74	14.73	10.10	12.65	12.77
ND	16.67	18.52	3.75	8.64	15.48	13.95
NE	9.13	21.62	21.92	32.09	24.78	24.32
NH	6.33	10.39	0.00	1.35	1.25	2.50
NJ	9.60	10.86	7.80	11.76	12.29	9.94
NM	16.67	25.35	23.61	24.64	12.68	8.57
NV	23.40	21.28	25.00	19.15	24.00	6.00
NY	2.65	7.92	6.56	7.19	7.39	8.99
OH	10.47	10.82	14.16	16.53	20.79	18.28
OK	23.21	27.16	21.34	25.85	28.88	26.02
OR	9.16	15.33	15.33	14.71	10.22	5.80
PA	12.39	13.38	11.17	16.00	15.66	13.06
RI	3.57	3.45	1.16	3.57	7.32	7.06
SC	24.25	22.49	24.26	38.60	29.61	27.03
SD	1.87	3.74	1.89	2.00	2.73	0.00
TN	29.28	22.84	23.22	17.67	24.52	24.06
TX	9.04	10.56	11.12	10.67	10.82	12.51
UT	0.00	0.00	5.81	3.13	4.12	12.00
VA	9.45	11.85	10.37	13.43	19.93	16.38
VT	22.50	25.00	7.89	5.00	12.82	5.00
WA	20.08	23.65	29.05	29.54	25.21	16.02
WI	21.60	25.97	23.66	24.24	25.07	25.13
WV	18.26	12.60	16.13	9.92	22.05	11.90
WY	27.03	48.57	36.84	51.28	44.74	42.11
US	16.94	20.04	20.11	20.15	20.42	18.10

Limited Range of Motion Services (F318)

Residents with limited range of motion must receive appropriate treatment and services to increase their range and/or to prevent declines in range of motion. In 2005, 6.45 percent of facilities received deficiencies for violating this requirement. The percent of facilities with deficiencies was 6.87 percent in 2010 (See Table 44).

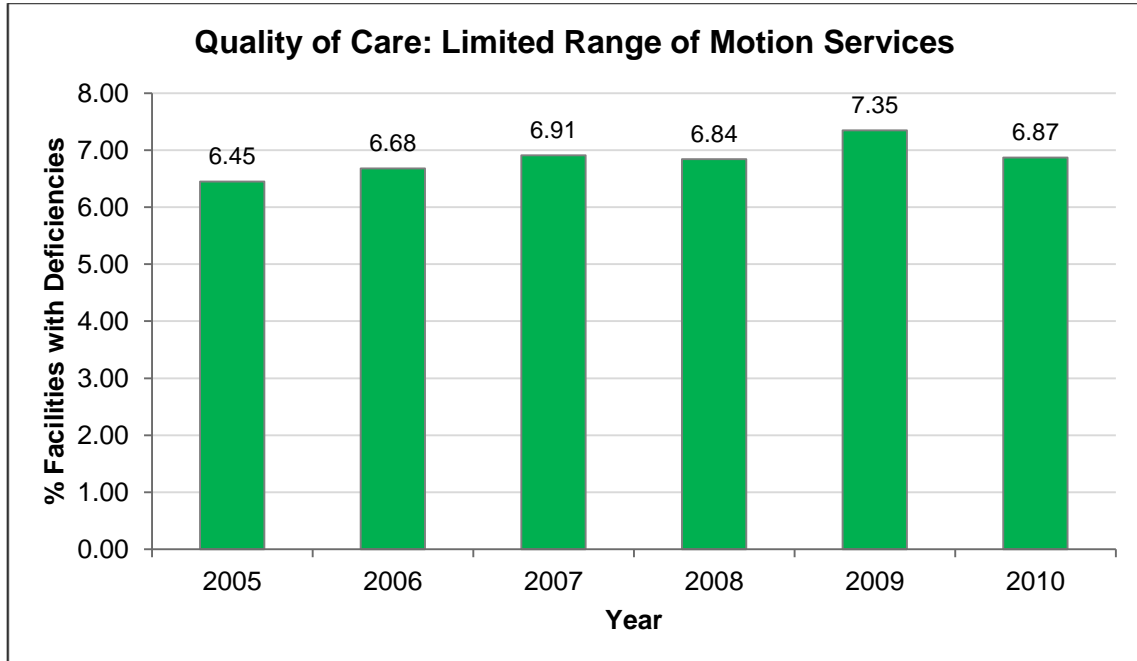


TABLE 44
DEFICIENCY GROUP=QUALITY OF CARE
LIMITED RANGE OF MOTION SERVICES (F318)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	0.00	6.67	0.00	7.14	6.67	13.33
AL	1.61	4.23	2.79	1.42	0.87	3.07
AR	14.71	17.36	21.76	20.34	29.44	22.22
AZ	6.00	5.19	1.56	3.05	5.93	10.87
CA	7.70	8.91	8.55	8.23	9.62	10.66
CO	9.00	10.14	5.71	6.83	8.02	8.53
CT	6.69	4.55	8.40	7.79	6.64	7.26
DC	35.00	20.00	10.53	0.00	5.26	11.11
DE	4.76	13.64	6.67	8.89	10.42	13.51
FL	3.41	3.25	4.06	5.37	4.61	4.25
GA	8.70	9.01	6.23	4.19	6.76	8.88
HI	5.00	6.52	2.44	2.22	10.42	2.44
IA	7.87	7.19	10.14	15.77	11.69	10.63
ID	14.86	13.16	19.72	2.53	3.80	5.06
IL	6.38	5.10	5.70	7.34	9.00	8.42
IN	4.04	4.36	4.13	4.74	3.23	2.75
KS	21.41	24.36	19.53	20.00	18.99	15.04
KY	3.39	1.37	5.52	3.15	4.26	4.58
LA	2.42	3.99	5.26	7.02	8.39	9.93
MA	2.26	1.99	4.58	2.17	2.32	2.10
MD	7.26	9.05	8.70	7.49	9.13	9.26
ME	0.92	2.70	2.70	1.82	4.67	6.48
MI	7.40	7.62	11.35	11.08	11.74	10.72
MN	16.21	16.93	18.16	19.42	16.54	12.44
MO	9.38	7.02	9.59	7.21	8.54	5.86
MS	2.00	3.47	1.48	2.59	1.48	0.99
MT	1.10	1.18	2.30	0.00	1.15	1.16
NC	6.59	6.60	9.90	4.09	6.56	4.96
ND	1.28	2.47	1.25	0.00	3.57	1.16
NE	6.85	8.56	13.24	8.84	6.19	7.21
NH	0.00	0.00	0.00	0.00	1.25	0.00
NJ	5.93	4.18	2.51	5.60	8.38	3.04
NM	1.39	1.41	4.17	5.80	2.82	2.86
NV	8.51	6.38	6.25	2.13	12.00	10.00
NY	6.86	4.66	4.38	3.75	6.76	5.68
OH	5.12	4.98	6.18	6.84	8.42	7.37
OK	8.56	8.66	8.84	8.62	12.42	9.40
OR	7.63	6.57	1.46	2.94	4.38	5.07
PA	4.37	5.77	5.73	5.43	4.62	4.21
RI	7.14	14.94	4.65	4.76	7.32	2.35
SC	7.88	4.73	5.92	5.26	7.82	4.86
SD	2.80	3.74	1.89	0.00	0.91	0.00
TN	4.05	3.09	2.79	3.47	2.55	3.13
TX	3.45	5.77	3.76	5.55	4.60	3.69
UT	0.00	0.00	2.33	1.04	1.03	1.05
VA	5.12	5.56	5.56	4.24	5.69	3.14
VT	0.00	2.50	2.63	2.50	5.13	10.00
WA	8.84	11.20	12.45	8.02	10.26	10.82
WI	5.14	4.42	4.33	6.31	5.74	5.08
WV	6.35	2.36	3.23	4.58	5.51	10.71
WY	27.03	28.57	13.16	7.69	10.53	34.21
US	6.45	6.68	6.91	6.84	7.35	6.87

Accident Environment (F323)

Facilities must ensure that the environment is as free of accident hazards as possible. This is designed to prevent unexpected and unintended injury. In 2005, 23.52 percent of facilities received deficiencies for failing to meet this standard (See Table 45). In 2009, the percent of facilities that received deficiencies for this requirement was 45.43, but decreased to 42.71 percent in 2010. The sharp increase was the result of combining F323 and F324 into one category of F323 in 2007.

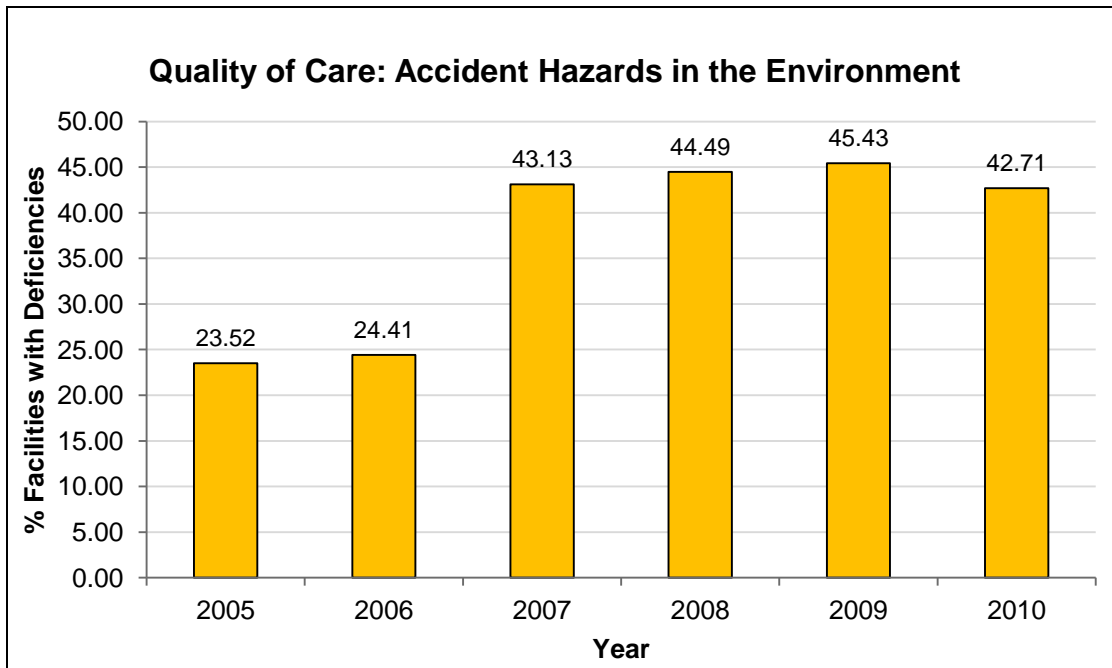


TABLE 45
DEFICIENCY GROUP=QUALITY OF CARE
ACCIDENT ENVIRONMENT (F323)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	13.33	20.00	26.67	21.43	26.67	40.00
AL	13.98	10.05	33.52	33.49	30.43	25.00
AR	47.06	67.36	79.92	72.46	78.35	71.60
AZ	39.00	50.37	58.59	54.96	56.30	31.88
CA	29.11	30.01	42.59	45.24	47.31	45.89
CO	36.02	38.65	62.86	74.15	76.89	81.52
CT	46.03	40.91	62.18	58.44	47.72	48.72
DC	65.00	65.00	84.21	57.89	57.89	77.78
DE	61.90	68.18	82.22	80.00	54.17	48.65
FL	18.91	19.67	26.77	30.70	32.39	30.89
GA	28.12	28.17	31.44	36.59	37.75	25.44
HI	12.50	10.87	21.95	33.33	35.42	46.34
IA	26.97	22.92	51.80	52.03	52.58	50.45
ID	44.59	48.68	74.65	63.29	69.62	60.76
IL	28.06	32.74	58.35	55.73	57.92	57.02
IN	22.63	22.57	54.03	58.70	57.17	54.42
KS	28.73	30.95	57.99	57.68	59.64	59.88
KY	17.97	25.68	28.62	37.41	40.78	44.37
LA	37.72	39.13	48.77	43.86	53.15	50.00
MA	11.76	10.82	31.58	32.05	29.23	30.07
MD	23.50	23.28	54.35	60.35	54.35	38.89
ME	40.37	35.14	34.23	26.36	31.78	30.56
MI	28.64	32.86	66.67	65.06	70.66	68.53
MN	25.55	23.54	52.89	48.29	50.90	49.22
MO	9.58	9.75	40.90	51.07	52.23	47.85
MS	22.50	24.75	30.05	37.31	40.89	27.72
MT	35.16	37.65	27.59	36.26	37.93	27.91
NC	16.83	18.16	34.78	25.24	24.59	23.40
ND	34.62	39.51	50.00	40.74	58.33	58.14
NE	25.11	27.93	46.12	44.19	34.51	35.14
NH	12.66	5.19	16.05	29.73	22.50	27.50
NJ	18.64	17.83	40.95	50.42	59.78	48.07
NM	30.56	9.86	27.78	31.88	21.13	22.86
NV	10.64	10.64	33.33	31.91	28.00	48.00
NY	17.00	21.74	40.63	37.50	39.62	35.33
OH	21.49	23.86	50.59	45.26	47.19	39.46
OK	25.41	24.48	33.54	36.62	42.86	42.32
OR	9.16	8.03	44.53	47.79	46.72	39.86
PA	20.42	24.65	40.36	45.71	44.48	41.01
RI	5.95	11.49	16.28	11.90	20.73	25.88
SC	27.88	17.75	31.36	30.41	27.93	27.03
SD	15.89	17.76	29.25	32.00	38.18	21.62
TN	22.43	18.21	39.94	40.06	34.39	35.94
TX	21.97	19.79	30.62	29.14	30.41	27.71
UT	15.91	12.77	15.12	27.08	30.93	38.95
VA	7.87	10.74	38.15	45.23	39.15	42.16
VT	25.00	20.00	28.95	32.50	41.03	35.00
WA	25.30	18.67	43.15	62.45	55.98	57.14
WI	14.65	12.73	37.15	48.23	52.74	55.84
WV	20.63	21.26	35.48	40.46	43.31	52.38
WY	35.14	68.57	60.53	53.85	42.11	39.47
US	23.52	24.41	43.13	44.49	45.43	42.71

Nutrition (F325)

Facilities must ensure that residents receive acceptable nutrition to maintain body weight unless a resident's condition makes this impossible. In 2005, 7.66 percent of facilities failed to meet this standard compared with 10.30 percent in 2010 (See Table 46).

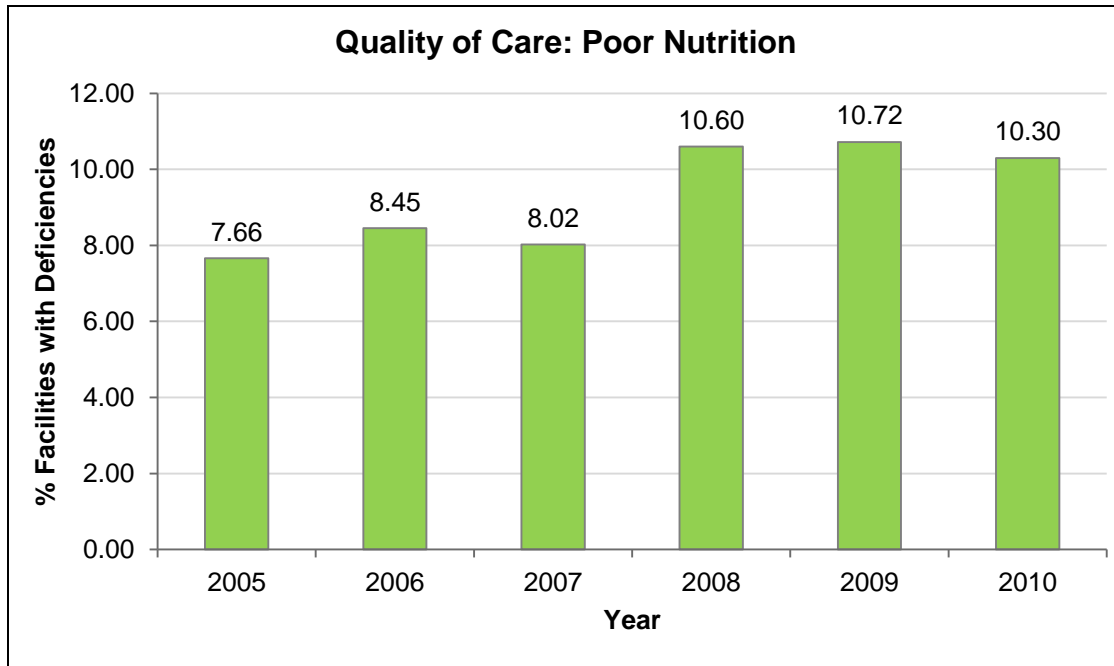


TABLE 46
DEFICIENCY GROUP=QUALITY OF CARE
NUTRITION (F325)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	13.33	6.67	6.67	0.00	6.67	0.00
AL	5.38	3.70	3.91	4.72	9.13	9.65
AR	5.04	9.92	9.21	13.56	12.12	13.58
AZ	3.00	5.19	5.47	12.98	10.37	12.32
CA	10.26	11.77	10.34	13.87	15.42	14.89
CO	12.32	17.87	18.57	20.98	21.70	21.33
CT	9.21	11.16	11.34	16.02	9.54	13.25
DC	5.00	20.00	21.05	10.53	26.32	33.33
DE	7.14	9.09	22.22	6.67	16.67	16.22
FL	5.12	6.36	5.71	7.75	5.50	8.20
GA	12.46	14.08	9.92	18.99	12.96	8.88
HI	15.00	10.87	4.88	15.56	12.50	12.20
IA	3.60	4.04	4.28	5.41	5.62	5.88
ID	9.46	14.47	11.27	8.86	12.66	11.39
IL	8.04	10.96	7.09	16.09	18.00	14.54
IN	6.87	10.89	8.64	13.64	11.72	9.23
KS	18.87	15.47	14.20	18.55	20.18	21.24
KY	4.07	3.42	6.21	9.79	4.96	2.11
LA	10.73	7.25	9.12	9.47	5.94	8.16
MA	5.66	5.08	4.81	5.30	6.50	5.36
MD	11.97	11.21	17.39	16.74	20.87	11.57
ME	0.00	1.80	5.41	10.91	5.61	10.19
MI	13.84	14.05	13.71	15.18	19.48	11.42
MN	2.75	4.23	5.53	8.66	11.11	14.25
MO	10.18	11.11	13.31	16.96	15.92	15.23
MS	4.50	4.95	2.96	2.59	4.93	2.48
MT	3.30	3.53	4.60	2.20	4.60	6.98
NC	5.61	5.66	4.35	5.77	6.32	6.86
ND	10.26	7.41	0.00	4.94	4.76	2.33
NE	6.85	10.36	10.05	13.49	11.06	9.46
NH	1.27	1.30	3.70	0.00	0.00	2.50
NJ	7.34	5.01	6.41	11.48	15.08	11.05
NM	6.94	2.82	1.39	5.80	1.41	4.29
NV	17.02	17.02	16.67	29.79	34.00	22.00
NY	9.83	11.96	11.88	9.38	10.53	11.67
OH	4.45	6.36	6.82	7.68	8.21	7.58
OK	7.46	5.97	5.18	10.77	10.87	11.60
OR	8.40	6.57	16.06	5.15	10.22	14.49
PA	8.59	9.72	8.38	12.29	12.45	11.38
RI	5.95	4.60	1.16	3.57	2.44	4.71
SC	4.85	5.33	1.78	4.68	7.26	7.57
SD	7.48	7.48	6.60	7.00	8.18	10.81
TN	6.54	4.94	4.64	5.68	3.18	2.50
TX	5.76	6.92	4.62	7.03	6.05	6.80
UT	5.68	6.38	1.16	1.04	7.22	9.47
VA	4.33	3.70	5.56	10.95	6.76	5.23
VT	2.50	7.50	13.16	5.00	12.82	15.00
WA	17.67	16.60	12.86	9.70	13.68	17.75
WI	4.37	4.42	7.12	8.84	6.79	5.08
WV	3.17	2.36	8.87	7.63	7.09	19.24
WY	2.70	5.71	0.00	5.13	5.26	15.79
US	7.66	8.45	8.02	10.60	10.72	10.30

Sufficient Nursing Staff (F353)

Facilities must have sufficient nursing staff to provide nursing and related services to attain or maintain the highest practicable physical, mental, and psychosocial well-being of residents. In 2005, 4.02 percent of facilities were given deficiencies for failing to meet this requirement compared with only 2.89 percent in 2010 (See Table 47). These low deficiency rates are a concern considering that a CMS (2001) report found that 9 out of 10 facilities have inadequate staffing.

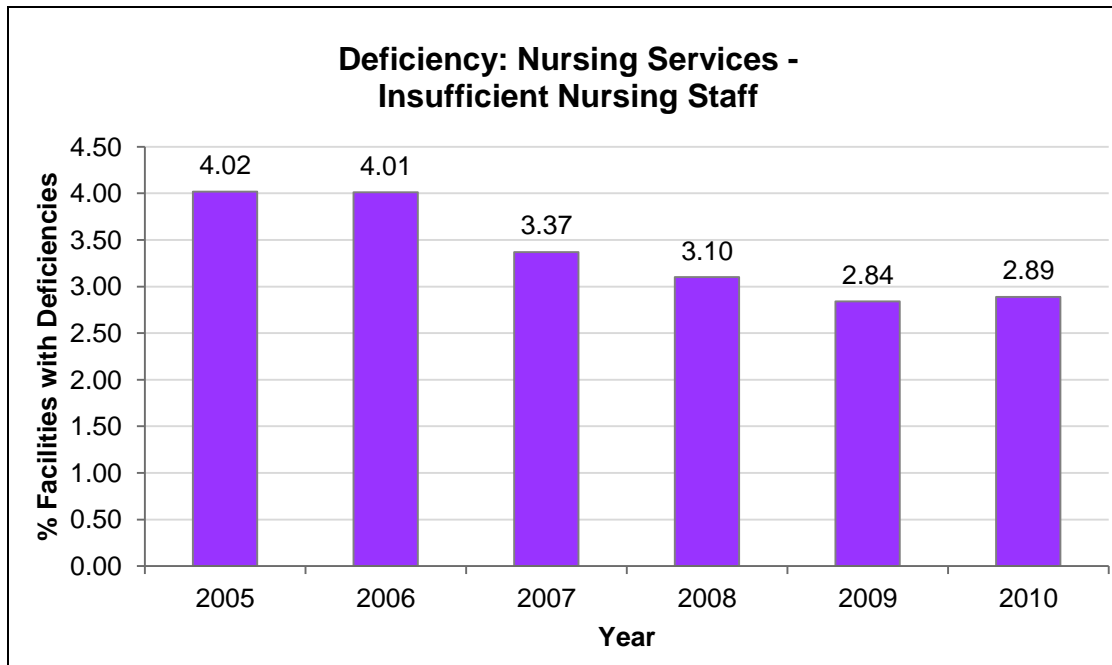


TABLE 47
DEFICIENCY GROUP=NURSING SERVICES
SUFFICIENT NURSING STAFF (F353)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	0.00	0.00	0.00	0.00	0.00	6.67
AL	5.91	4.23	0.56	0.47	0.43	0.88
AR	3.78	2.07	0.84	0.42	0.87	1.23
AZ	2.00	3.70	2.34	1.53	5.93	2.17
CA	5.69	5.31	3.58	4.52	1.71	1.14
CO	3.79	3.38	6.67	2.44	3.77	6.64
CT	0.42	3.72	3.78	3.90	2.07	2.56
DC	5.00	10.00	5.26	0.00	0.00	5.56
DE	0.00	2.27	0.00	0.00	0.00	2.70
FL	8.22	8.43	4.81	2.38	1.78	2.34
GA	3.48	2.25	1.98	1.68	1.97	0.30
HI	2.50	0.00	2.44	11.11	8.33	12.20
IA	5.62	5.62	4.73	7.43	6.97	9.05
ID	12.16	10.53	4.23	5.06	6.33	6.33
IL	2.68	2.68	3.92	4.25	2.92	3.44
IN	4.65	4.75	4.13	4.35	4.65	2.55
KS	12.11	14.61	11.83	11.59	12.17	13.27
KY	3.39	4.11	2.41	4.90	2.84	2.11
LA	11.07	11.96	8.77	5.26	6.64	7.80
MA	1.81	1.99	1.60	0.96	0.93	2.10
MD	2.14	1.29	1.30	0.44	2.61	0.00
ME	0.92	2.70	2.70	1.82	0.93	1.85
MI	6.68	6.67	4.02	4.10	5.87	6.53
MN	3.30	3.17	2.11	2.62	3.88	4.92
MO	5.19	4.09	5.87	3.90	4.85	2.73
MS	0.50	0.00	0.49	0.52	0.99	1.49
MT	1.10	1.18	2.30	0.00	1.15	0.00
NC	1.95	1.42	1.69	0.72	0.47	0.00
ND	0.00	0.00	0.00	0.00	1.19	0.00
NE	0.46	2.70	4.57	0.93	1.33	1.35
NH	2.53	0.00	1.23	1.35	0.00	1.25
NJ	0.56	0.56	0.56	0.84	1.68	1.38
NM	8.33	1.41	4.17	2.90	1.41	1.43
NV	6.38	12.77	8.33	0.00	4.00	4.00
NY	0.31	0.31	1.25	1.41	2.52	2.05
OH	1.78	2.55	2.77	2.84	2.70	2.91
OK	3.59	4.48	3.96	5.54	4.35	5.64
OR	5.34	5.11	2.19	0.74	0.73	0.00
PA	1.83	1.55	1.54	1.29	1.96	1.69
RI	1.19	1.15	1.16	0.00	3.66	5.88
SC	4.24	5.92	0.59	1.17	0.00	0.00
SD	3.74	5.61	0.94	1.00	0.00	0.00
TN	5.30	4.63	3.10	1.89	0.32	0.00
TX	4.52	3.11	2.48	2.52	1.02	1.43
UT	0.00	2.13	2.33	3.13	0.00	2.11
VA	0.79	2.96	3.70	3.53	1.07	0.35
VT	12.50	20.00	5.26	5.00	7.69	10.00
WA	4.42	4.15	6.64	4.64	3.85	3.46
WI	4.63	3.90	3.56	2.78	4.70	4.57
WV	4.76	7.09	8.87	6.87	7.87	10.71
WY	29.73	22.86	15.79	15.38	7.89	13.16
US	4.02	4.01	3.37	3.10	2.84	2.89

Food Sanitation (F371)

Sanitary conditions must be ensured in storing, preparing, distributing, and serving food to prevent food borne illness. In 2005, 35.05 percent of facilities were given deficiencies for failure to meet this regulation compared to 39.45 percent in 2010 (See Table 48).

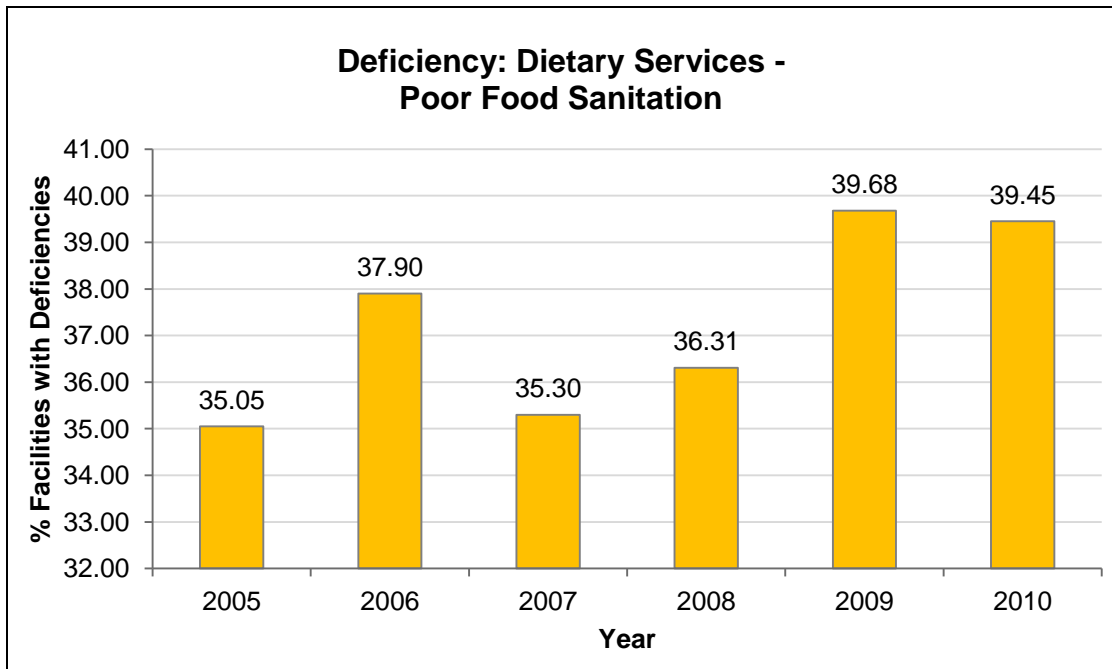


TABLE 48
DEFICIENCY GROUP=DIETARY SERVICES
FOOD SANITATION (F371)

Percent of Facilities with Deficiencies						
State	2005	2006	2007	2008	2009	2010
AK	46.67	61.50	83.30	57.14	60.00	60.00
AL	49.46	42.60	50.30	50.94	40.87	42.98
AR	47.06	56.80	44.70	45.76	52.38	46.09
AZ	33.00	43.20	28.20	21.37	32.59	33.33
CA	46.99	52.70	55.30	55.73	60.03	62.57
CO	33.65	40.10	47.40	51.22	60.85	60.66
CT	24.27	29.10	31.30	24.68	24.90	25.21
DC	100.00	85.00	100.00	47.37	94.74	100.00
DE	57.14	66.70	63.60	75.56	43.75	40.54
FL	57.05	53.40	46.90	53.95	52.15	49.19
GA	35.36	36.80	25.40	28.77	29.86	22.19
HI	32.50	37.00	26.80	42.22	47.92	56.10
IA	38.20	34.70	37.40	39.19	46.74	43.67
ID	62.16	60.80	35.70	34.18	63.29	58.23
IL	22.70	22.40	25.40	24.71	33.21	34.82
IN	27.47	29.20	27.70	34.39	40.40	36.15
KS	35.49	38.30	45.30	39.42	55.79	55.16
KY	35.59	39.90	34.00	38.46	41.13	48.59
LA	30.45	33.90	40.80	44.21	48.25	46.45
MA	14.93	12.60	8.40	12.29	12.53	13.52
MD	36.75	49.80	48.60	46.26	44.78	37.50
ME	38.53	33.60	38.90	34.55	39.25	37.04
MI	37.71	41.40	49.60	47.95	47.18	48.72
MN	38.74	38.80	40.20	36.22	51.16	43.01
MO	35.73	38.30	41.80	42.69	44.27	42.58
MS	33.00	38.10	28.50	30.57	34.98	38.61
MT	57.14	49.40	41.20	46.15	56.32	50.00
NC	45.61	49.50	47.80	39.90	36.30	37.59
ND	41.03	42.00	33.80	29.63	38.10	39.53
NE	48.86	41.60	42.30	52.09	43.36	47.75
NH	32.91	26.30	29.60	31.08	25.00	32.50
NJ	26.84	22.30	22.60	20.73	32.12	36.19
NM	34.72	25.70	18.60	14.49	12.68	15.71
NV	34.04	38.30	39.60	51.06	60.00	66.00
NY	17.94	23.10	24.30	21.72	20.44	18.93
OH	26.50	26.30	20.60	23.58	29.21	28.87
OK	60.22	67.30	64.60	57.23	59.01	42.63
OR	4.58	14.30	8.20	14.71	18.25	17.39
PA	27.75	31.90	29.30	32.43	34.13	36.10
RI	17.86	14.90	5.90	4.76	7.32	3.53
SC	43.03	37.70	40.80	29.24	31.28	31.35
SD	44.86	46.70	31.10	34.00	33.64	40.54
TN	36.45	27.80	19.40	27.44	21.34	24.06
TX	36.05	34.00	33.20	33.91	35.95	39.63
UT	48.86	46.70	54.80	32.29	28.87	33.68
VA	20.87	28.40	41.80	40.64	39.86	27.53
VT	32.50	27.50	39.50	42.50	28.21	47.50
WA	38.15	43.90	33.20	35.86	41.03	43.29
WI	11.83	13.60	10.60	20.71	39.43	44.67
WV	53.97	46.80	40.50	54.20	51.18	44.05
WY	54.05	74.30	63.20	56.41	34.21	44.74
US	35.05	37.90	35.30	36.31	39.68	39.45

PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES BY SURVEY CATEGORY

Percent of Deficiencies

This section presents a listing of each of the about 175 survey items under each survey category based on the federal survey requirements (excluding the life safety requirements). The percent of facilities in the U.S. with deficiencies are presented for the 2005-2010 period.

Resident Rights

In this category of survey items, the highest percent of deficiencies were given for failure to give notice of changes (See Table 49). Only 7 of the 26 items in this category were cited in 2 percent or more of the facilities in the U.S. in 2010.

TABLE 49
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR RESIDENT RIGHTS

DEFICIENCY GROUP=RESIDENT RIGHTS

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F151	Exercise of Rights	1.13	1.62	1.27	1.37	0.91	1.19
F152	Free of Reprisal	1.29	1.16	0.97	1.03	1.49	0.92
F153	Access to Records	0.33	0.37	0.28	0.28	0.32	0.34
F154	Informed of Condition	1.13	1.28	1.70	1.56	1.29	1.56
F155	Refuse Treatment	2.03	2.23	2.10	2.16	2.10	1.68
F156	Notice of Rights and Services	4.42	4.89	6.07	6.68	8.83	9.25
F157	Notice of Changes	14.97	15.95	16.27	16.59	17.43	15.98
F158	Resident Manage Financial Affairs	0.11	0.12	0.17	0.16	0.14	0.12
F159	Facility Manage Personal Funds	2.82	3.37	3.26	3.53	3.80	3.53
F160	Convey Funds	1.19	1.45	1.24	1.46	1.34	1.39
F161	Financial Security	1.45	1.66	1.48	1.31	1.63	1.18
F162	Limit on Charges to Funds	0.20	0.25	0.17	0.24	0.29	0.29
F163	Choice of Physician	0.12	0.10	0.14	0.15	0.11	0.09
F164	Privacy and Confidentiality	10.29	10.65	9.33	8.47	10.19	9.82
F165	Voice Grievances	0.21	0.23	0.26	0.25	0.27	0.20
F166	Resolve Grievances	3.65	3.63	3.62	3.41	3.49	4.03
F167	Survey Results	3.89	4.12	4.03	4.13	4.57	4.19
F168	Information	0.10	0.11	0.17	0.18	0.20	0.20
F169	Work	0.04	0.04	0.03	0.00	0.00	0.01
F170	Mail	1.67	1.80	1.43	1.38	1.35	1.13
F172	Visitors	0.14	0.20	0.26	0.20	0.33	0.27
F173	Ombudsman	0.01	0.01	0.01	0.00	0.00	0.00
F174	Telephone	1.50	1.70	1.58	1.52	1.51	1.31
F175	Married Couples	0.04	0.08	0.06	0.05	0.04	0.04
F176	Administer Own Drugs	4.70	4.70	4.23	3.84	3.53	3.56
F177	Refuse Transfers	0.05	0.06	0.09	0.05	0.07	0.08

Admission, Transfer, and Discharge Rights

In this category of survey items, the most deficiencies were given for failure to provide notice of facility policies and to provide notice before transfer, although few deficiencies were given in this category (See Table 50). In 2010, 2 items in this category, Notice of Policies and Notice Before Transfer, was cited in more than 1 percent of the facilities in the U.S.

Resident Behavior and Facility Practices

In this category of survey items, the highest percent of deficiencies were given for unemployable individuals (17.98 percent). In 2010, 15.80 percent were cited for failure to follow policies and procedures for staff; and 8.79 percent were given deficiencies for improper physical restraints (See Table 50).

TABLE 50**PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR ADMISSION,
TRANSFER & DISCHARGE RIGHTS AND FOR RESIDENT BEHAVIOR & FACILITY
PRACTICES****DEFICIENCY GROUP=ADMISSION, TRANSFER AND DISCHARGE RIGHTS**

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F201	Transfer and Discharge	0.54	0.53	0.63	0.65	0.47	0.52
F202	Documentation	0.49	0.62	0.64	0.68	0.63	0.70
F203	Notice Before Transfer	1.51	1.62	1.96	1.80	1.87	1.40
F204	Orientation for Transfer or Discharge	0.61	0.65	0.78	0.84	0.78	0.88
F205	Notice of Policies	1.19	1.25	1.15	1.18	1.22	1.17
F206	Permitting Resident to Return to Facility	0.21	0.22	0.26	0.34	0.31	0.17
F207	Equal Access to Quality Care	0.03	0.06	0.03	0.03	0.03	0.04
F208	Admission Policy	0.14	0.13	0.19	0.03	0.08	0.06

DEFICIENCY GROUP=RESIDENT BEHAVIOR AND FACILITY PRACTICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F221	Physical Restraints	10.61	10.81	12.42	10.97	10.78	8.79
F222	Chemical Restraints	0.50	0.59	0.57	0.69	0.63	0.31
F223	Abuse	2.89	3.13	2.74	2.87	2.67	2.73
F224	Staff Treatment of Residents	3.83	4.33	3.39	2.85	2.70	2.85
F225	Unemployable Individuals	17.28	16.97	16.37	16.62	17.56	17.98
F226	Policy and Procedures for Staff	12.36	13.51	13.47	13.87	15.54	15.80

Quality of Life

Most deficiencies were issued to facilities for failure to maintain the dignity of residents (20.23 percent in 2010) and for poor housekeeping (19.69 percent in 2010). Failure to accommodate needs, failure to provide adequate social services, and failure to provide an adequate activities program were also frequently cited (See Table 51). Seven of the 19 items in this category were cited in 2 percent or more of the facilities.

TABLE 51
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR QUALITY OF LIFE

DEFICIENCY GROUP=QUALITY OF LIFE

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F240	Quality of Life	0.53	0.60	0.60	0.38	0.54	0.38
F241	Dignity	17.50	19.20	18.28	18.45	20.35	20.23
F242	Self-Determination/Participation	2.74	2.95	2.63	2.59	3.43	3.65
F243	Resident and Family Groups	0.32	0.22	0.32	0.28	0.31	0.32
F244	Listen to Group	1.14	1.28	1.53	1.48	1.64	1.58
F245	Participate in Other Activities	0.12	0.08	0.12	0.10	0.07	0.08
F246	Accommodate Needs	9.41	9.87	10.06	10.40	10.22	8.96
F247	Notice Before Room Change	0.20	0.37	0.37	0.64	1.30	1.50
F248	Activities Program	6.70	8.57	8.69	7.31	7.84	7.30
F249	Activities Director	0.60	0.83	0.80	0.75	0.82	0.81
F250	Social Services	7.39	8.17	8.29	7.88	8.50	7.82
F251	Social Work Qualification	0.25	0.27	0.19	0.15	0.19	0.18
F252	Environment	6.10	6.25	6.21	5.73	6.42	6.19
F253	Housekeeping	21.66	23.39	20.42	20.58	21.15	19.69
F254	Clean Linens	1.12	1.22	1.11	0.95	0.90	0.68
F255	Private Closet	0.06	0.08	0.12	0.09	0.10	0.00
F256	Adequate Lighting	0.34	0.50	0.35	0.41	0.50	0.40
F257	Comfortable Temperatures	1.02	1.11	1.05	0.97	1.10	1.28
F258	Comfortable Sound	1.24	1.39	1.38	1.18	1.42	1.31

Resident Assessment

In 2010, most deficiencies were issued to facilities for failure to meet professional standards (30.03 percent), failure to provide comprehensive care plans for residents (27.67 percent), failure to provide for qualified personnel (16.25 percent), failure to meet plan requirements (14.56 percent), and failure to make comprehensive assessments (13.98 percent) (See Table 52). Eight of 15 items in this category were cited in 2 percent or more of facilities.

TABLE 52
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR
RESIDENT ASSESSMENT

DEFICIENCY GROUP=RESIDENT ASSESSMENT

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F271	Admission Orders	0.34	0.30	0.42	0.50	0.49	0.42
F272	Comprehensive Assessments	12.60	14.80	15.16	14.58	16.12	13.98
F273	Frequency	1.06	1.27	1.33	1.31	1.20	0.95
F274	Change in Condition	3.78	3.97	4.44	3.91	3.67	2.62
F275	Annual Assessment	0.93	0.94	0.91	0.77	0.73	0.63
F276	Review of Assessments	2.69	3.80	2.89	2.64	2.64	2.06
F277	Coordination	0.00	0.00	0.00	0.00	0.00	0.00
F278	Accuracy of Assessments	12.05	13.49	13.41	13.32	13.17	10.39
F279	Comprehensive Care Plans	20.52	22.62	24.86	25.81	29.10	27.67
F280	Plan Requirements	13.36	14.00	12.69	13.57	15.30	14.56
F281	Professional Standards	29.83	31.40	30.96	31.03	33.73	30.03
F282	Qualified Personnel	13.73	15.69	16.71	16.32	16.64	16.25
F283	Discharge Summary	1.15	1.22	1.49	1.20	1.23	1.00
F284	Post Discharge Plan	0.88	0.97	1.04	0.85	0.82	0.74
F285	Preadmission Screening	0.60	0.83	1.07	1.15	1.09	1.32

Quality of Care

The quality of care category contained a number of important items that were given citations. The failure to keep the environment free of hazards that cause accidents (F323) was cited in 42.71 percent of facilities in 2010 (Table 53). General quality of care was a deficiency in 34.31 percent of facilities in 2010, which had increased from 33.42 percent in 2005. Failure to prevent pressure sores and use of unnecessary drugs were deficiencies in 19.43 and 23.22 percent of the facilities in 2010. Fifteen out of the 23 items in this category were cited in 2 percent or more of the facilities in the U.S.

TABLE 53
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR
QUALITY OF CARE

DEFICIENCY GROUP=QUALITY OF CARE

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F309	Quality of Care	33.42	34.48	34.11	32.93	35.50	34.31
F310	Activities of Daily Living Maintenance	1.39	1.19	1.19	1.00	1.24	0.92
F311	Appropriate ADL Treatment	3.96	3.74	3.63	3.66	3.59	3.48
F312	ADL Services	14.08	14.20	14.26	13.86	14.95	14.22
F313	Vision and Hearing	0.64	0.80	0.85	0.94	0.87	0.97
F314	Pressure Sores	19.29	21.78	21.97	21.11	21.16	19.43
F315	Urinary / Incontinence Care	16.94	20.04	20.11	20.15	20.42	18.10
F317	Range of Motion Maintenance	0.45	0.40	0.51	0.45	0.45	0.37
F318	Limited Range of Motion Services	6.45	6.68	6.91	6.84	7.35	6.87
F319	Mental and Psychosocial Services	1.86	2.26	2.22	2.21	2.22	1.66
F320	Maintenance of Psychosocial Functioning	0.10	0.15	0.23	0.19	0.17	0.16
F321	Nasogastric Tubes (Tube Feeding)	0.03	0.06	0.06	0.05	0.07	0.06
F322	Nasogastric Care	6.58	7.08	6.77	6.52	7.04	6.52
F323	Accident Environment	23.52	24.41	43.13	44.49	45.43	42.71
F324	Accident Prevention	27.94	29.58				
F325	Nutrition	7.66	8.45	8.02	10.60	10.72	10.30
F326	Therapeutic Diet	2.86	2.15	2.19	0.39	0.00	0.00
F327	Hydration	4.64	4.60	4.73	4.36	4.20	3.99
F328	Special Needs	7.03	7.80	8.27	8.62	8.68	8.35
F329	Unnecessary Drugs	14.28	14.42	19.81	20.82	23.80	23.22
F332	Medication Errors	12.16	12.54	12.36	11.69	13.12	11.49
F333	Significant Medication Errors	4.75	4.98	8.08	8.87	9.31	8.40
F334	Influenza/Pneumococcal Immunizations		1.01	10.05	8.96	7.90	5.74

Nursing Services

Nursing services are key to quality of care in nursing facilities. Of the facilities given deficiencies, 4.02 percent of facilities were given deficiencies for insufficient staff to provide appropriate care in 2005 compared to 2.89 percent in 2010 (a 28.11 percent decrease). The number of deficiencies for inadequate registered nurse staffing decreased from 2.06 percent in 2005 to 1.21 in 2010, a 41.26 percent decrease (Table 54). In addition, 4.37 percent of facilities violated the requirement to post a daily listing of nursing staff on duty in 2010.

Dietary Services

In 2010, 39.45 percent of facilities were given deficiencies for inadequate food sanitation while 7.74 percent received citations for inadequate food, 6.44 percent for nutritionally inadequate menus, and 3.03 percent for inadequate garbage disposal (Table 54).

TABLE 54
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR NURSING SERVICES & DIETARY SERVICES

DEFICIENCY GROUP=NURSING SERVICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F353	Sufficient Nursing Staff	4.02	4.01	3.37	3.10	2.84	2.89
F354	Registered Nurse Staff	2.06	1.97	1.90	2.08	1.58	1.21
F356	Posting of Nurse Staffing		1.53	4.23	4.64	4.59	4.37

DEFICIENCY GROUP=DIETARY SERVICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F360	Well-Balanced Diet	0.42	0.35	0.41	0.36	0.39	0.47
F361	Qualified Staff	0.75	0.82	0.93	0.71	0.73	0.00
F362	Sufficient Staff	0.75	0.87	1.06	0.84	0.76	0.80
F363	Menus and Nutritional Adequacy	6.49	6.42	6.81	6.85	7.38	6.44
F364	Food	7.90	8.43	8.74	8.08	8.75	7.74
F365	Individual Needs	2.90	3.15	2.90	2.72	2.93	2.54
F366	Food Substitutes	1.27	1.26	1.20	1.21	1.30	1.44
F367	Therapeutic Diets	3.66	4.16	3.61	3.26	3.43	2.62
F368	Frequency of Meals	4.13	4.36	3.80	3.41	3.39	2.71
F369	Assistive Devices	0.91	1.29	1.12	0.80	0.86	1.05
F370	Sanitary Conditions	0.03	0.04	0.05	0.01	0.00	0.00
F371	Food Sanitation	35.05	37.90	35.30	36.31	39.68	39.45
F372	Garbage Disposal	3.44	3.75	3.45	3.51	3.31	3.03

Physician Services

Few nursing facilities were given deficiencies for physician services. In 2010, 3.10 percent received deficiencies for inadequate frequency of visits and 2.46 percent received deficiencies for an inadequate number of physician visits (Table 55).

Rehabilitative Services

In 2010, 1.77 percent of facilities were given deficiencies for inadequate rehabilitative services (Table 55).

Dental Services

Fewer facilities (less than two percent) were given deficiencies for poor dental services than for other types of professional services in the 2005 to 2010 period (Table 55).

TABLE 55
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR
PHYSICIAN, REHABILITATIVE & DENTAL SERVICES

DEFICIENCY GROUP=PHYSICIAN SERVICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F385	Physician Supervision	0.53	0.60	0.66	0.73	0.54	0.51
F386	Physician Visits	2.25	2.54	2.80	2.55	2.89	2.46
F387	Frequency	2.78	3.20	3.40	3.59	3.58	3.10
F388	Physician Alternates	0.30	0.31	0.30	0.35	0.41	0.36
F389	Availability	0.10	0.15	0.10	0.05	0.10	0.04
F390	Physician Delegation of Tasks	0.05	0.06	0.03	0.03	0.04	0.03

DEFICIENCY GROUP=REHABILITATIVE SERVICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F406	Services	1.61	1.68	1.52	1.67	1.65	1.77
F407	Qualifications	0.15	0.17	0.19	0.14	0.15	0.12

DEFICIENCY GROUP=DENTAL SERVICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F411	Routine and Emergency Services (SNF)	0.99	1.02	0.99	1.27	1.55	1.56
F412	Routine and Emergency Services (NF)	0.45	0.63	0.62	0.68	1.15	1.30

Pharmacy Services

In 2010, 19.49 percent of facilities received deficiencies for improper consultation, labeling, and storage of drugs, 15.86 percent of facilities received deficiencies for failure to provide proper pharmacy services, and 10.25 for failure to review drug regimens (Table 56). All pharmacy categories were cited in more than 2 percent of facilities in 2010.

Infection Control

Infection control is an important category. In 2005, 17.84 percent of facilities received deficiencies for inadequate infection control, compared to 42.93 percent in 2010 (Table 56). The increase was a result of CMS's consolidation of 4 infection control requirements (F442-F445) into one requirement.

TABLE 56
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR
PHARMACY SERVICE & INFECTION CONTROL

DEFICIENCY GROUP=PHARMACY SERVICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F425	Pharmacy Services	15.50	14.92	14.47	14.84	16.38	15.86
F428	Drug Regimen Review	7.19	6.95	9.53	9.45	10.71	10.25
F431	Consultation, Labeling & Storage	13.09	13.09	14.76	16.44	18.63	19.49

DEFICIENCY GROUP=INFECTION CONTROL

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F441	Infection Control	17.84	20.00	19.22	20.24	30.43	42.93
F442	Preventing Spread of Infections	1.87	2.19	2.08	2.34	2.00	
F443	Direct Contact	0.25	0.27	0.16	0.17	0.21	
F444	Handwashing	10.90	11.95	12.49	12.95	9.94	
F445	Linens	4.20	4.27	4.05	4.17	3.26	

Physical Environment

The category for physical environment includes 16 requirements. In 2010, 12.23 percent of facilities received deficiencies for inadequate other environmental conditions, and 5.51 percent for inadequate space and equipment (Table 57). Other facilities received deficiencies for inadequate resident call systems (4.40 percent), inadequate room space (2.90 percent), and inadequate pest control (2.78 percent).

TABLE 57
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR
PHYSICAL ENVIRONMENT

DEFICIENCY GROUP=PHYSICAL ENVIRONMENT

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F454	General Health and Safety	1.60	1.70	1.53	2.20	1.37	0.96
F455	Emergency Power	0.20	0.15	0.29	0.23	0.22	0.08
F456	Space and Equipment	4.53	4.91	4.25	4.69	5.12	5.51
F457	Resident Rooms	0.36	0.30	0.26	0.33	0.34	0.40
F458	Room Space	2.99	2.83	2.72	2.57	2.68	2.90
F459	Exits	0.03	0.01	0.04	0.04	0.03	0.01
F460	Privacy	1.38	1.23	1.27	0.94	1.10	0.92
F461	Windows	0.03	0.04	0.06	0.04	0.17	0.34
F462	Toilets	0.01	0.01	0.03	0.01	0.02	0.02
F463	Resident Call System	3.04	2.98	2.94	3.36	4.41	4.40
F464	Dining and Activities	0.60	0.75	0.66	0.71	0.79	0.81
F465	Other Environmental Condition	9.78	10.72	12.21	12.72	13.07	12.23
F466	Emergency Water	0.75	0.83	1.01	0.79	0.92	0.83
F467	Ventilation	0.85	1.26	1.31	1.26	1.39	0.97
F468	Equipment in Corridors	1.31	1.60	1.51	1.51	1.78	1.65
F469	Pest Control	3.78	4.08	3.69	3.35	3.23	2.78

Administration Services

In 2010, 5.04 percent of facilities received deficiencies for failure to demonstrate the proficiency of nursing assistants, 3.29 percent for failure to comply with laws, 3.09 percent for ineffective administration, and 1.97 percent for inadequate inservice education (Table 58). Three of the 12 administrative requirements were cited in more than 2 percent of facilities in 2010.

Laboratory Services

In 2010, only one of the 8 laboratory services requirements was cited in more than 2 percent of facilities. This deficiency was for failure to provide high quality, timely laboratory services (6.68 percent in 2010).

Other Activities

Three of the 8 other activities requirements were cited in more than 2 percent of facilities in 2010. These deficiencies were issued for inadequate clinical record keeping (21.10 percent), failure of the quality assurance committee to meet requirements (4.71 percent), and inadequate emergency training (3.61 percent).

TABLE 58
PERCENT OF NURSING FACILITIES IN THE U.S. WITH DEFICIENCIES FOR
ADMINISTRATION AND OTHER SERVICES

DEFICIENCY GROUP=ADMINISTRATION

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F490	Administered Effectively	2.67	3.24	3.21	3.29	3.12	3.09
F491	Licensure	0.01	0.03	0.01	0.02	0.01	0.01
F492	Compliance With Laws	4.50	4.22	3.62	3.75	4.22	3.29
F493	Governing Body	0.78	0.87	0.82	0.73	0.60	0.58
F494	Required Training	0.51	0.57	0.35	0.41	0.42	0.22
F495	Employee Competency Program	0.38	0.40	0.32	0.35	0.31	0.17
F496	Registry Verifications	1.52	1.56	1.37	1.21	1.28	1.02
F497	Inservice Education	2.65	3.06	2.89	2.42	2.48	1.97
F498	Proficiency of Nurse Aides	5.84	6.06	5.00	4.59	5.48	5.04
F499	Qualified Professionals	0.56	0.83	0.80	0.61	0.66	0.51
F500	Outside Services	1.25	1.36	1.37	1.56	1.12	0.88
F501	Medical Director	0.86	1.62	1.74	1.28	1.04	0.85

DEFICIENCY GROUP=LABORATORY SERVICES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F502	High Quality, Timely Services	5.96	6.70	7.67	8.47	7.68	6.68
F503	Meets Lab Standards	0.08	0.13	0.21	0.15	0.11	0.19
F504	Services Ordered by a Physician	0.64	0.80	0.96	1.19	1.15	1.16
F505	Notifies Physicians	1.49	1.70	2.06	2.17	2.04	1.66
F507	Clinical Records	0.45	0.53	0.71	0.55	0.68	0.60
F508	Radiology and Other Services	0.49	0.51	0.52	0.58	0.61	0.36
F511	Radiology Notification of Physician	0.17	0.13	0.12	0.17	0.17	0.15
F513	Records Signed and Dated	0.14	0.13	0.19	0.18	0.17	0.13

DEFICIENCY GROUP=OTHER ACTIVITIES

FTAG	DESCRIPTION	2005	2006	2007	2008	2009	2010
F514	Clinical Records	18.70	20.87	20.26	21.36	22.35	21.10
F516	Records Safeguarded	0.87	0.83	0.91	0.76	0.93	1.09
F517	Plans for Emergency	0.97	1.47	1.85	1.40	1.86	1.67
F518	Emergency Training	2.96	3.35	3.46	3.57	3.86	3.61
F519	Transfer Agreement	0.05	0.08	0.09	0.03	0.03	0.04
F520	Quality Assurance Committee	3.35	3.67	4.48	4.77	5.04	4.71
F521	Quality Assurance Activities	0.12	0.00	0.00	0.00	0.00	0.00
F522	Disclosure of Ownership	0.03	0.04	0.08	0.06	0.06	0.04

SUMMARY

In summary, this report has provided information on nursing facilities in the states. The data are from the federal OSCAR system, which provides comprehensive information about facility characteristics, resident characteristics and services provided, staffing, and deficiencies from federal surveys. The federal survey findings can be expected to change over time as policies are implemented to encourage

improvements in the quality of nursing care.

This is one of the few reports, which has been able to provide historical data on nursing facilities. The overall trend lines are fairly stable over time for most of the items. Thus, these data provide an opportunity to examine quality issues and deficiency patterns over time.

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TECHNICAL NOTES

Data Sources

The OSCAR system includes data for all certified nursing homes in the U.S. The data are collected in three separate sets of files: (1) provider information, which include facility characteristics and staffing data; (2) health survey file (with facility-level summary information regarding resident characteristics); and the (3) survey deficiencies. In addition to the OSCAR data for annual surveys, data from OSCAR complaint files were combined with the annual survey data. OSCAR is an on-line data system from the Centers for Medicare and Medicaid Services (CMS). The OSCAR data for this report included the most recent surveys for all facilities for the period of 2004-2009.

All nursing facilities federally certified for Medicare (skilled nursing care) and Medicaid (nursing facilities) and surveyed during the calendar year were included (about 15,100 facilities) in these data. Intermediate care facilities for the mentally retarded (ICF-MR) were excluded because they use different federal certification forms and have different standards of care. Facilities located in the trust territories and Puerto Rico were excluded.

Data Cleaning and Duplicate Records

In preparing the data for this report, discussions were held with HCFA officials as necessary to discuss data acquisition, formatting, and cleaning issues. Frequency distributions were developed for all the indicators on the data set and a series of cleaning activities undertaken.

The first step in cleaning was to eliminate any duplicate provider records. Duplicate records were considered generally to be the result of changes in certification for Medicare and Medicaid (Title 18/19) facilities or Medicare only (Title 18) facilities. Since 1990, because of OBRA 1987 legislation, Medicaid only (Title 19) SNF and ICF facilities are certified together as nursing facilities (NFs). With this change, some problems with duplicate SNF and ICF reporting were essentially eliminated.

To correct the duplicate problems, we identified all those facilities showing identical values for the following areas: state, city, facility name, and facility address. Where duplicate records were identified, a decision-making procedure was invoked as follows:

- (1) The most recent record within a calendar year was selected over earlier records; and
- (2) A record reporting a category of either: (01) skilled nursing facility (SNF) -- Medicare participation; (02) nursing facility (NF) -- Medicaid participation; or (03) SNF/ICF -- Medicare/Medicaid participation was selected over facilities reporting as (10) hospital based.

For those remaining facilities with the same name and/or address, data on telephone numbers and survey data were then examined. Where there appeared to be two facilities at one site with different data, neither facility was eliminated. This overall process resulted in dropping about 100 facilities annually.

Data Errors

The data were examined for missing values and gross errors. Means and standard deviations of the data were computed and examined. Logic checks confirming the reasonableness of data were conducted. Preliminary work identified some missing data and errors, primarily in reporting

the beds, staffing and the number of residents. Each problem area and the cleaning procedures are discussed below.

Total Number of Beds

During the preliminary work, the total number of beds in each state reported on OSCAR was compared to the total licensed bed supply for each state from an independent survey of states (DuNah et al. 1994). The total number of beds reported by facilities was significantly higher than the total licensed beds in the U.S. An analysis of this discrepancy found that some hospital-based facilities had reported the total number of acute care beds rather than the total number of skilled nursing beds for their facility. To correct this error, the maximum number of beds for a hospital-based facility was set to equal the maximum number of certified skilled nursing beds in the facility. Thus, this process made the total certified nursing facility beds more comparable to the total state licensed nursing facility beds in each state.

Total Number of Residents

Several problems concerning resident data were detected. First, some facilities had missing data for their total number of residents. These facilities were left in the data set, but where resident data were not available, these facilities were not included in the tables report.

Second, some facilities reported extremely low numbers of residents. In order to identify facilities with possible errors in reporting residents, occupancy rates were computed for all nursing facilities. Free-standing (non-hospital based) facilities reporting 50 or fewer residents than total beds were considered to have erroneous data and were eliminated from the staffing and resident characteristics' analysis.

Third, some facilities reported more residents than beds, suggesting more than 100 percent occupancy. Hospital-based facilities may have had approval for swing beds which would allow the hospital to use an acute care bed for a nursing home resident. Therefore, hospital-based facilities with more residents than beds were left in the data set, but the maximum occupancy rate for such facilities was reported to be 100 percent. Finally, facilities with numbers of residents reported at greater than 100 percent of total beds, which were not hospital-based, were dropped from the analysis.

Staffing Data

Frequencies for hours of staffing per resident day were examined separately for Medicaid only facilities and for Medicare only and/or dually certified facilities. The total number of hours of staff reported in a two week period was divided by the total number of residents and by the 14 days in the reporting period.

There were a number of problems identified with the facility staffing data. Some facilities reported extremely high staff hours per resident day while others reported no registered nurses or no nursing staff hours. Where a facility reported nurse staffing hours per resident day which did not fall within a reasonable range, the data for that item were be considered invalid. The following uniform decision-making rules were created for eliminating facility staffing data which clearly appeared to be too high or too low:

First, facilities with average nursing hours per resident day that were greater than 24 hours of nursing per resident were considered erroneous and eliminated from the analysis. Distributions of the nursing hours per resident were then examined.

To correct further for staffing levels that were unreasonably high, facilities reporting staffing hours per resident day in the upper 2 percent by type of facility (separately for Medicaid only and for Medicare only/dually certified) and by type of staff (RN, LVN/LPN, and nursing assistants) were eliminated from the staffing analysis.

Facilities reporting extremely low staffing hours per resident day were identified. Since some Title 19 facilities and Title 18/19 facilities were given HCFA waivers from the staffing requirements, these facilities may have few or no RN staff.

Since all facilities are required to have some licensed nurses, nursing facilities with no licensed staff (RNs and/or LVN/LPNs) and/or no nursing staff were eliminated from these analyses. In addition, facilities with computed staffing levels in the lower 1 percent range for licensed or combined nursing personnel for each type of facility (separately for Medicaid only and for Medicare only and/or dually certified) were removed from the staffing report because some of these may have been erroneous.

Other reporting errors in staffing data may occur. For example, facility errors in the reporting of time periods may have occurred or rounding errors may have occurred. These types of errors cannot be detected in the data set. Thus, because further accuracy checks could not be conducted, only the high and low outlier facilities were removed from the tables on staff.

RNs, LPN/LVNs, and Aides are presented separately. Total licensed nurses are also presented; these include RNs and LPN/LVNs added together. Total combined nursing personnel are included as combined RNs, LPN/LVNs, and nursing aide hours.