



Survey of Nurses 2010

EXECUTIVE SUMMARY

In 2010, the Michigan Center for Nursing conducted the seventh annual survey of nurses licensed in Michigan. The samples for this survey and previous surveys were drawn from the Michigan licensure files maintained by the Michigan Department of Community Health. All nurses are required to renew their license every two years after receiving their first license, which results in two approximately equal cohorts of nurses. Responses from a mailed survey and Web-based survey were combined and analyzed. In 2010, the total sample consisted of:

- 34,054 registered nurse (RN) surveys, yielding a margin of error of ± 0.4 percent with 95 percent confidence; and
- 6,985 licensed practical nurse (LPN) surveys, yielding a margin of error of ± 0.9 percent with 95 percent confidence.

Key findings from the 2010 survey show that:

- Approximately 82 percent of licensed RNs and 75 percent of licensed LPNs report that they are *active* in nursing—working in nursing or a related area full- or part-time. The percentage of licensed RNs and LPNs who are active in nursing decreased significantly since 2008 when 84 percent of RNs and 80 percent of LPNs were active in nursing.
- An estimated 96,755 licensed registered nurses are working in nursing or a related area *in Michigan*—about 79,919 (about 83 percent) of these RNs provide direct patient care services in their main nursing position.
- An estimated 19,894 licensed practical nurses are working in nursing or a related area *in Michigan*—about 17,905 (90 percent) of these LPNs provide direct patient care services.
- About 3 percent of licensed RNs and 6 percent of licensed LPNs are unemployed and seeking employment in nursing.
- The ratio of *active* registered nurses to population in Michigan is approximately 970 RNs for every 100,000 people; the ratio of *active* licensed practical nurses to population is approximately 200 LPNs per 100,000 people.
- About 36 percent of *active* registered nurses in this license renewal cohort reported that they are aged 55 or older, compared to 33 percent of active registered nurses who responded to the survey in 2009. About 43 percent of *active* licensed practical nurses in this license renewal cohort are aged 55 or older, compared to 41 percent in 2009.

- Forty-one percent of *active* RNs and 45 percent of *active* LPNs say they plan to practice nursing for only one to ten more years. This group is larger than it was in 2008 when 39 percent of all active RNs and 41 percent of all active LPNs *in the same license renewal cohort* said they planned to practice nursing for only one to ten more years.
- In 2010, about 18 percent of RNs and 19 percent of LPNs surveyed said they had voluntarily left a nursing position in the last two years. Of these, more than half—53 percent of RNs and 57 percent of LPNs—said they left to take another nursing position with a different organization.
- Nearly three-fourths of *active* registered nurses (about 71 percent) are employed in either the hospital inpatient or outpatient setting; LPNs are most likely (about 45 percent) to be employed in nursing homes or long-term care facilities.
- About 6 percent of *active* RNs and 4 percent of active LPNs are male.¹
- About 5 percent of *active* RNs are African American, 4 percent are Asian, and 1 percent are American Indian/Alaskan Native.
- About 14 percent of *active* LPNs are African American, 2 percent are Asian, and 2 percent are American Indian/Alaskan Native.
- About 1 percent of both *active* RNs and active LPNs are Spanish/Hispanic/Latino.

¹ U.S. Census Bureau annual population estimates by sex, race, and Hispanic or Latino origin show the following percentages for Michigan for 2008: 49.2 percent male, 50.8 percent female, 81.2 percent white, 14.2 percent black or African American, 2.4 percent Asian, 0.6 percent American Indian or Alaskan Native, 0.4 percent Native Hawaiian or other Pacific Islander, and an estimated 4.1 percent Hispanic or Latino. The sum of percentages for race equals less than 100 because individuals reporting more than one race are not counted in these percentages.

INTRODUCTION

One of the goals of the Michigan Center for Nursing is to establish a central resource for nursing workforce data collection and analysis. The Michigan Center for Nursing conducts an annual survey of nurses licensed in Michigan to collect data on their employment status, geographic distribution, age, plans to continue practicing, work setting, practice area, education, gender, and racial/ethnic background. The survey instrument also includes a question on whether the nurse has left a position in nursing during the past two years, and, if so, what factors led to the decision to leave the previous nursing position. This report presents the survey findings for 2010 and a description of the survey methodology.

The samples for this survey and previous surveys were drawn from the Michigan licensure files maintained by the Michigan Department of Community Health. All nurses are required to renew their license every two years after receiving their first license, which results in two approximately equal cohorts of nurses. Previous years of survey data show a difference between the two cohorts of nurses in age distribution. The cohort of nurses who renewed their licenses during 2005, 2007, and 2009 was slightly older than the cohort who renewed their licenses in 2004, 2006, and 2008. When looking at trends since the first survey in 2004, survey responses that may be affected by age should be compared only to responses received from the *same* license renewal cohort in a previous survey. At the present time, the age distribution within each of the two cohorts is comparable; responses to questions that may be affected by age, such as plans to continue practicing nursing, can thus be compared for years 2009 and 2010.

The large number of responses received each year and the sampling design assure that the survey findings are applicable to the entire population of nurses licensed in Michigan. If differences between survey findings from one year to another are significant (i.e., outside of the margin of error), they are noted in the text.

NUMBER OF NURSES

The total number of nurses licensed by the State of Michigan is 159,307 (as of January 1, 2010). Of these, 131,223 are registered nurses (RNs) and 28,084 are licensed practical nurses (LPNs). The total number of nurses licensed by Michigan (including both active and inactive RNs and LPNs) has increased by 15,703 since the first survey of nurses in 2004. Since 2009, the total number of licensed nurses has increased by 3,146.² The number of licensed RNs increased by 2,912 (about 2 percent), while the number of licenses for LPNs increased by 234 (less than 1 percent) during the same period.

²Data for 2004–2010 are from the annual *Michigan Center for Nursing Survey of Nurses*. All data from earlier licensure surveys of nurses cited in this report are from the *Study of the Current and Future Needs of the Professional Nursing Workforce in Michigan*, prepared in July 2001 for the Michigan Department of Consumer and Industry Services by Public Sector Consultants Inc.

In 2010, approximately 82 percent of licensed RNs report that they are active in nursing—working in nursing or a related area full- or part-time.³ About 75 percent of LPNs are working in nursing or a related area (see Exhibit 1). The percentage of licensed RNs and LPNs who are active in nursing decreased significantly since 2008 when 84 percent of RNs and 80 percent of LPNs were active in nursing.

EXHIBIT 1
Employment Status of RNs and LPNs in Michigan, 2010

	Registered Nurses		Licensed Practical Nurses	
	%	Number*	%	Number*
Total number of nurses licensed by Michigan		131,223		28,084
Total active nurses—employed in nursing or related area	82.2	107,865	74.8	21,007
Not employed, and seeking employment in nursing or related area	2.6	3,412	6.2	1,741
Employed, but not in nursing	2.6	3,412	4.7	1,320
Not employed, and seeking employment outside nursing	0.3	394	0.5	140
Temporarily not working and not looking for a job	4.9	6,430	6.5	1,825
Retired with no plans to return to work	7.5	9,842	7.4	2,078
Active nurses employed <i>in Michigan</i> (89.7 percent of active RNs, 94.7 percent of active LPNs)		96,755		19,894
Active nurses providing direct care services <i>in Michigan</i> (82.6 percent of active RNs employed in MI, 90.0 percent of active LPNs employed in MI)		79,919		17,905

*NOTE: The number of nurses licensed by Michigan is from the Michigan licensure files maintained by the Michigan Department of Community Health as of January 1, 2010. All other numbers are estimated based on data from the *Michigan Center for Nursing Survey of Nurses 2010*.

Some nurses who are active in nursing are not working in Michigan, even though they hold a Michigan license. And some nurses working in positions in related areas, such as nursing education or administration, do not provide direct care services to patients. The following estimates are based on survey findings for 2010.

- An estimated 96,755 RNs (about 90 percent of active RNs) are working in nursing or a related area *in Michigan*.
- An estimated 79,919 RNs (about 83 percent of active registered nurses working in Michigan) *provide direct patient care services* in their main nursing position.
- An estimated 19,894 LPNs (about 95 percent of active LPNs) are working in nursing or a related area *in Michigan*.

³ Throughout this report, the term “active” is used to refer to nurses who are working either full-time or part-time in nursing or a related area. “Active” does not include nearly 3 percent of licensed nurses who are unemployed and seeking nursing work and could be considered part of the available nursing workforce.

- An estimated 17,905 LPNs (90 percent of active LPNs working in Michigan) provide direct patient care services in their main nursing position.

Analysis of data in this report focuses on active nurses—those who are working full- or part-time in nursing or a related area. Analysis of the data for these *active* nurses shows the following distribution between full- and part-time status:

- About 72 percent of *active* RNs are employed full-time (35 or more hours per week); 28 percent are employed part-time (less than 35 hours per week). This percentage has not changed since 2004.
- About 67 percent of *active* LPNs are employed full-time; 23 percent are employed part-time. This also is relatively unchanged since 2004.

RATIO OF NURSES TO POPULATION

Based on the employment location reported by nurses, the estimated ratio of active nurses to population in Michigan is 1,170 per 100,000.⁴ This nurse-to-population ratio estimate includes *both* LPNs and RNs who are employed in nursing full-time or part-time in Michigan. The estimated ratio of active *registered nurses* to population in Michigan is 970 for every 100,000 people. The ratio of active *licensed practical nurses* to population is 200 LPNs per 100,000 people.

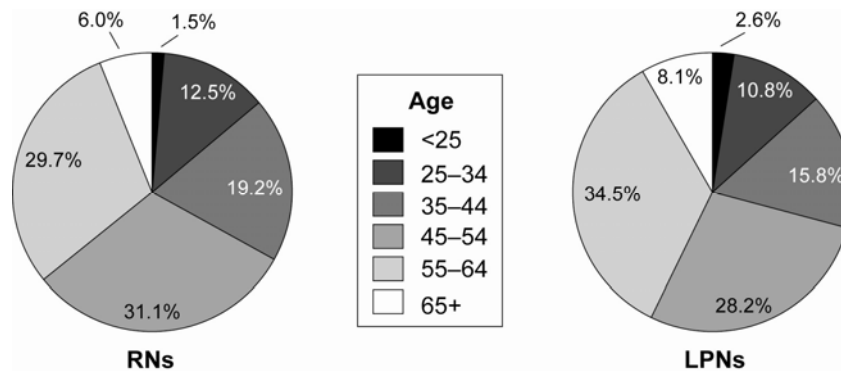
AGE OF NURSES

The proportion of active licensed nurses nearing retirement is increasing for both RNs and LPNs in Michigan, as shown by the following survey results.

- About 36 percent of *active* registered nurses in this license renewal cohort reported that they are aged 55 or older (see Exhibit 2), compared to 31 percent of active registered nurses in the same license renewal cohort who responded to the survey in 2008. In the survey responses for 2010, the average age of active RNs licensed in Michigan is 48.7 years.
- About 43 percent of *active* licensed practical nurses in this license renewal cohort are aged 55 or older, compared to 39 percent in the same license renewal cohort who responded to the survey in 2008. In the survey responses for 2010, the average age of active LPNs licensed in Michigan is 50.2 years.

⁴ Nurse-to-population ratios for 2010 are calculated using the employment location reported by nurses and the U.S. Census Bureau annual population estimates for Michigan for 2009. Prior to 2004, licensure surveys used the mailing address of licensed nurses to estimate the number of nurses active in Michigan and nurse-to-population ratios. Using this methodology, the nurse-to-population ratio for 1998–99 was 1,079 nurses per 100,000 people.

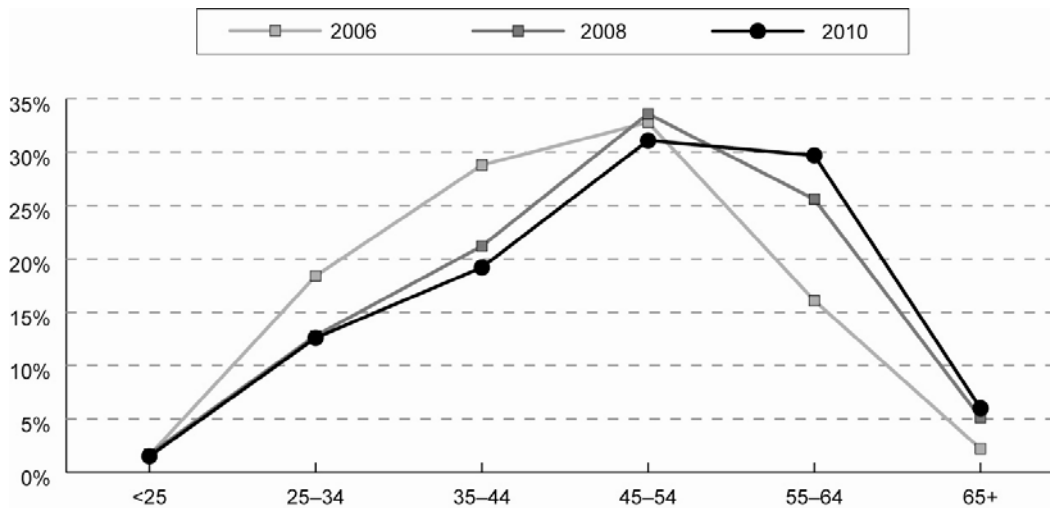
EXHIBIT 2
Proportion of Active RNs and LPNs, by Age



SOURCE: Michigan Center for Nursing Survey of Nurses 2010.

In stark contrast, only 14 percent of RNs and 19 percent of LPNs were aged 55 or older in the 1998–99 licensure renewal survey. Exhibits 3 and 4 demonstrate the shift of the age distribution of nurses surveyed in the same cohort in 2006, 2008, and 2010. This continuing upward shift in the age of active nurses suggests that not enough younger nurses are entering the workforce to compensate for those leaving or retiring.

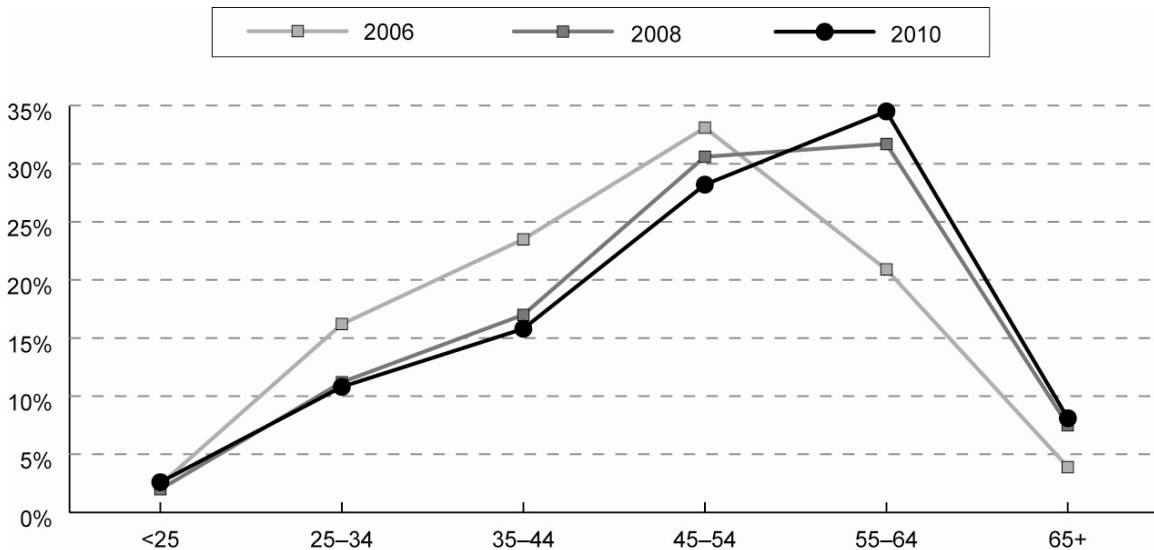
EXHIBIT 3
Distribution of Active Registered Nurse Population in Michigan, by Age



SOURCE: Michigan Center for Nursing Survey of Nurses 2010.

EXHIBIT 4

Distribution of Active Licensed Practical Nurse Population in Michigan, by Age



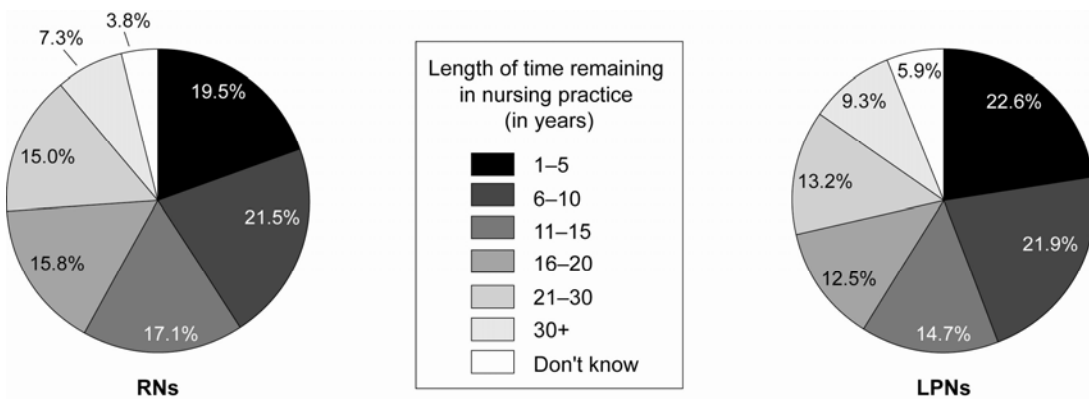
SOURCE: Michigan Center for Nursing Survey of Nurses 2010.

LENGTH OF TIME REMAINING IN NURSING

It is not just the nurses nearing retirement age who are planning to stop practicing nursing in the near future. As shown in Exhibit 4, about 41 percent of *all* active RNs and about 45 percent of *all* active LPNs say they plan to practice nursing for only one to ten more years. This group is larger than it was in 2008, when 39 percent of all active RNs and about 41 percent of all active LPNs *in the same license renewal cohort* said they planned to practice nursing for only one to ten more years.

EXHIBIT 5

Plans to Practice Nursing for Active LPNs and RNs, 2010



SOURCE: Michigan Center for Nursing Survey of Nurses 2010.

VOLUNTARY CHANGE IN NURSING POSITION

Eighteen percent of RNs and 19 percent of LPNs surveyed in 2010 said they had voluntarily left a nursing position in the last two years. This is a slight drop since 2008 when 21 percent of RNs and 21 percent of LPNs *in the same license renewal cohort* said they had voluntarily left a nursing position in the last two years.

- More than half (53 percent) of the RNs who reported voluntarily leaving a nursing position said it was to take another nursing position with a different organization and about 18 percent said it was to take another nursing position in the same organization.
- A higher proportion (57 percent) of the LPNs who reported voluntarily leaving a nursing position said it was to take another nursing position with a different organization, while only about 6 percent said it was to take another nursing position in the same organization.
- About 23 percent of RNs and 29 percent of LPNs who had left a nursing position said it was to retire or quit nursing, compared to 20 percent of RNs and 23 percent of LPNs in 2008.
- About 5 percent of the RNs and about 8 percent of the LPNs who had left a nursing position said it was to take a position outside nursing.

For those nurses who left a nursing position, the factors leading to their decision that were mentioned most often, in descending order, were “general lack of job satisfaction”; “personal or family concerns”; “physical demands of the job”; “age”; and “inadequate salary/wages” (see Exhibit 6). A review of survey data since 2006, when this question was added to the licensure survey, shows a decrease in the proportion of nurses citing “general lack of job satisfaction,” while the proportion of nurses citing “age” as a reason for leaving a position has increased.

EXHIBIT 6
Factors Influencing Decisions to Leave a Nursing Position, 2010

Factors	RNs	LPNs
General lack of job satisfaction	37.5%	35.1%
Personal or family concerns	26.1	25.5
Physical demands of the job	18.0	20.0
Age	16.0	19.9
Inadequate salary/wages	15.1	17.4
Career promotion	13.0	7.8
Employer/employee conflict	10.9	12.2
Increasing administrative burden	10.7	10.1
Inadequate benefits	8.5	17.4
Childbearing/childrearing	5.2	4.2
Opportunity to work in nursing administration	4.0	2.2
Opportunity to work in nursing education	3.4	0.6

SOURCE: Michigan Center for Nursing Survey of Nurses 2010

NOTE: Nurses were asked to indicate all factors that led to their decision to leave a nursing position in the last two years, so the sum of the percentages will be more than 100 percent.

WORK SETTING

Nearly three-fourths of active registered nurses (about 71 percent) are employed in either a hospital inpatient or outpatient setting (see Exhibit 7). Only 19 percent of active LPNs are employed in a hospital setting, while almost half (about 45 percent) are employed in nursing homes or long-term care facilities.

EXHIBIT 7
Employment Settings of Active RNs and LPNs, 2010

Employment Settings	RNs	LPNs
Hospital inpatient	54.3%	13.9%
Hospital outpatient	16.3	5.3
Home health care	7.8	14.1
Nursing home/long-term care facility	7.5	45.1
Physician's office	6.7	19.1
Nursing education	4.7	1.3
Non-hospital outpatient	4.7	2.8
Public/community health	2.6	1.1
Hospice	2.9	2.7
Insurance company/health plan	2.2	0.9
School health	1.2	1.4
Traveling/temporary nurse	0.9	1.1
Other	8.5	6.5

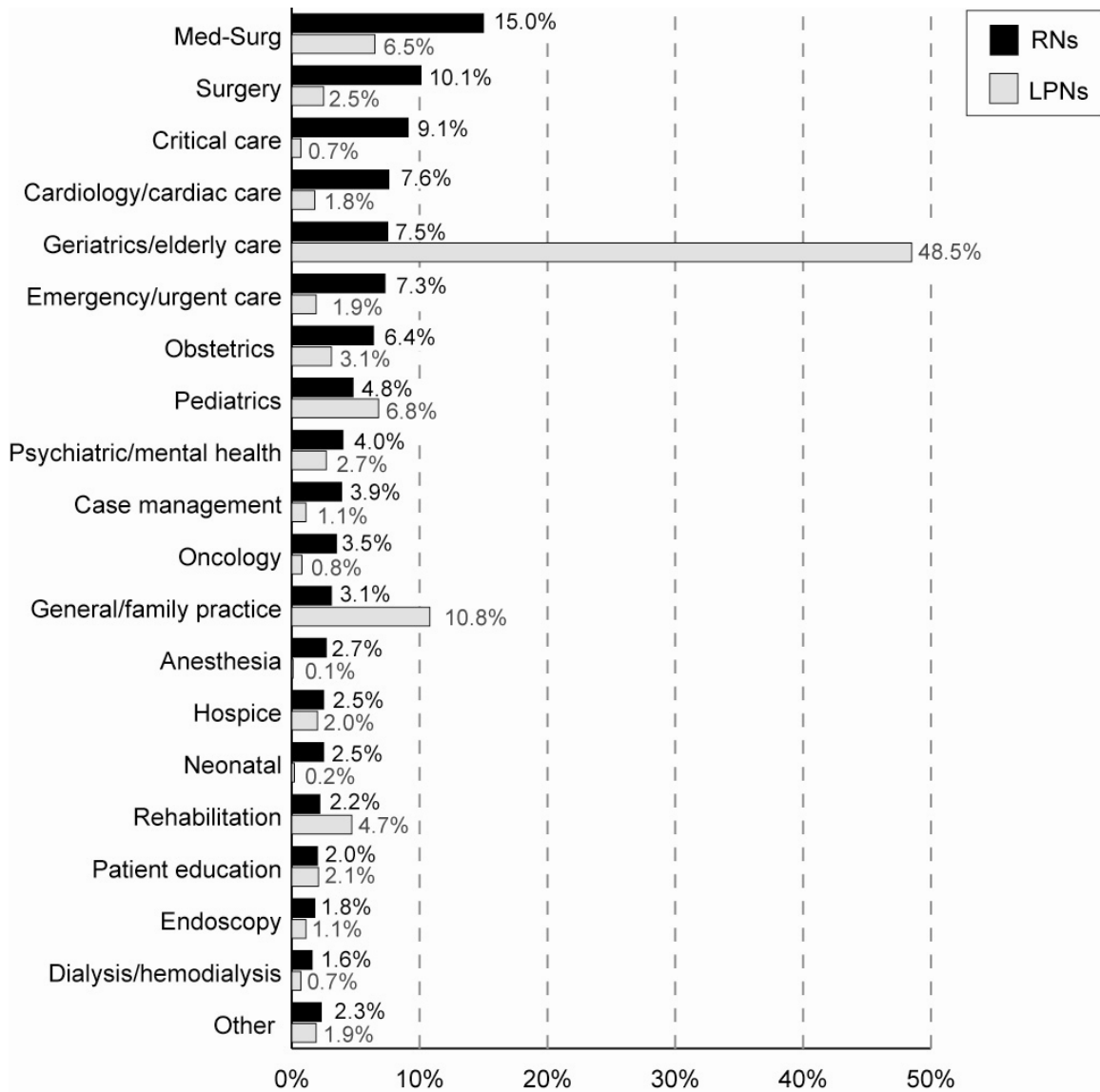
SOURCE: *Michigan Center for Nursing Survey of Nurses 2010.*

NOTE: Nurses were asked to indicate all of their current employment settings, so the sum of the percentages will be more than 100 percent.

PRACTICE AREA

Approximately 83 percent of active RNs and 91 percent of active LPNs report that their main nursing position involves providing direct care services to patients/families. These nurses were asked to identify their main practice area from a list of areas given (see Exhibit 8). The practice area that RNs identified most often among the choices offered was “med-surg” (15 percent). Almost half (about 49 percent) of active LPNs who provide direct care identified their main practice area as “geriatrics/elderly care.”

EXHIBIT 8
Main Practice Area of Active RNs and LPNs Who
Provide Direct Patient Care, 2010



SOURCE: Michigan Center for Nursing Survey of Nurses 2010.

EDUCATION

All nurses responding to the survey were asked to indicate their level of education (all degrees completed).

- About 45 percent of active RNs have an associate’s degree in nursing; 39 percent hold a bachelor’s degree in nursing; and 19 percent have an RN diploma in nursing. (Nurses may hold more than one nursing degree, so percentages total more than 100.)

- About 8 percent of active RNs hold a master's degree in nursing and about 5 percent hold a master's degree in another field.
- Less than 1 percent (0.4 percent) of registered nurses hold a doctorate in nursing. Among those with a doctorate, more than three-fourths (77 percent) have a Doctor of Philosophy (PhD); about 17 percent have a Doctor of Nursing Practice (NPD); 5 percent have a Doctor of Nursing Science (DNSc); and about 3 percent have a Doctor of Nursing (ND).
- Approximately 97 percent of active LPNs have an LPN diploma or an LPN certificate of nursing.
- Approximately 5 percent of active RNs also hold an LPN diploma or an LPN certificate of nursing.
- About 8 percent of RNs and 6 percent of LPNs report they hold some other degree.

In the 2010 survey, nurses were asked whether they are currently enrolled in bachelor's or master's degree programs. Four percent of RNs and 2 percent of LPNs are enrolled in a program to obtain a Bachelor of Science in Nursing (BSN) degree. About 3 percent of RNs are enrolled in a program to obtain a Master of Science in Nursing degree.

RACIAL/ETHNIC BACKGROUND AND GENDER

Data on racial/ethnic and gender characteristics of the nursing population in Michigan show that:

- 6 percent of active RNs and 4 percent of active LPNs are male.
- About 88 percent of active RNs are white, 5 percent are African American, 4 percent are Asian, 1 percent are American Indian/Alaskan Native, and less than 1 percent are Middle Easterner or Pacific Islander.
- 81 percent of active LPNs are white, 14 percent are African American, 2 percent are American Indian/Alaskan Native, 2 percent are Asian, and less than 1 percent are Middle Easterner or Pacific Islander.
- About 1 percent of active RNs and 1 percent of active LPNs are Spanish/Hispanic/Latino.

METHODOLOGY

The Michigan Center for Nursing contracted with Public Sector Consultants Inc. (PSC) for development, implementation, and analysis of the survey of nurses. A single instrument for both RNs and LPNs was designed in collaboration with the Michigan Center for Nursing Advisory Board. (The survey instrument and response frequencies for RNs and LPNs are attached to this report, and include data from previous surveys as a reference.)

The samples for these surveys were drawn from the Michigan licensure files maintained by the Michigan Department of Community Health. All nurses are required to renew their license every two years. The universe of nurses is divided into two cohorts of roughly equal size depending on the year in which each nurse was first licensed. The surveys were mailed to all nurses renewing their license in 2010 along with their license renewal forms. A total of 82,359 nurses (67,586 RNs and 14,773 LPNs) renewed their license.

Nurses could either return the paper version of the survey with their renewal or complete both the survey and their license renewal online. The large number of paper and Web-based surveys collected permits a robust analysis. Combining the responses from the paper version with the results from the Web survey resulted in a total of

- 34,054 completed RN surveys, yielding a margin of error of ± 0.4 percent with 95 percent confidence; and
- 6,985 completed LPN surveys, yielding a margin of error of ± 0.9 percent with 95 percent confidence.⁵

These totals include fully and partially completed surveys (that is, those with information missing for one or more variables); thus the sample size for individual variables will differ and the margin of error may change slightly depending upon the amount of data for that particular variable.

⁵ For example, if the answer to a survey question is 60 percent “Yes,” the margin of error and confidence level mean that if this question were asked 100 times, in 95 occurrences the answer of the entire universe of respondents would be between 59.1 percent and 60.9 percent (i.e., the ± 0.9 percent margin of error). In the other 5 occurrences, the true answer from the universe would be either below or above this range (confidence interval).

Survey Instrument and RN Response Frequencies¹ 2004–2010²

For 2010 survey results, N=34,054

This information is being collected by the Michigan Center for Nursing to describe the supply of and demand for nurses in Michigan. Data from this survey will be used to inform state and local decision making regarding the recruitment, education, and employment of nurses in Michigan. The information you provide will be confidential; the identity of individual respondents will not be shared with anyone. Completion of the questions below is voluntary and does not affect your license. However, this information is important and your participation is encouraged and truly appreciated. *Please complete the survey and return it with your renewal application in the envelope provided.* If you are both an LPN and an RN, complete and return only one survey.

If you renew your license via the Internet, you will have the opportunity to complete this survey online.

Go to www.michigancenterfornursing.org to view survey results and to sign up to receive Michigan Center for Nursing News & Updates electronically.

1. Are you a licensed practical nurse (LPN), a registered nurse (RN), or both? (Mark **one**. If you are both an LPN and an RN, complete and return only one survey.)

	RNs 2005	RNs 2006	RNs 2007	RNs 2008	RNs 2009	RNs 2010
RN only	96.4%	95.8%	96.6%	96.4%	96.9%	96.8%
Both LPN and RN	3.6	4.2	3.4	3.6	3.1	3.2

NOTE: This question was not asked on the 2004 survey.

2. What is your education background? (Mark **all** that apply)

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
a) LPN diploma/ certificate of nursing	—	3.7%	5.5%	5.8%	5.6%	4.6%	4.6%
LPN certificate of achievement	—	1.9	—	—	—	—	—
b) RN diploma in nursing	—	22.3	18.7	21.9	22.0	20.1	19.3
c) Associate's degree in nursing	42.1%	44.4%	48.4%	45.8%	45.5%	44.4%	45.1%

¹ Frequencies reported may not equal 100 percent due to rounding.

² All nurses are required to renew their license every two years after receiving their first license, which results in two approximately equal cohorts of nurses. Analysis of survey data prior to 2009 shows a difference between these two cohorts of nurses in age distribution. Therefore, survey responses that may be affected by age—such as plans to continue practicing nursing—should be compared only to responses received from the same license renewal cohort two years ago (e.g., 2009 compared to 2007, 2008 compared to 2006).

	Active Only						
	2004	2005	2006	2007	2008	2009	2010
d) Bachelor's degree in nursing	40.3	37.4	37.0	38.0	38.6	39.1	39.3
e) Master's degree in nursing	8.4	7.4	6.4	6.8	7.0	7.3	7.5
f) Master's degree in other field	—	—	3.9	4.4	4.7	4.7	4.6
g) Doctorate in nursing	0.4	0.3	0.3	0.3	0.4	0.4	0.4
h) Doctorate in other field	—	—	—	—	0.4	0.4	0.4
i) Other degree	9.4	10.6	8.0	8.8	8.9	7.6	7.9

NOTE: In 2004, 21.8% of all RNs reported they held a diploma in nursing. On the 2005 survey, "diploma in nursing" was replaced as a response option by "LPN diploma in nursing," "LPN certificate of achievement," and "RN diploma in nursing." On the 2006 and 2007 survey, "LPN diploma in nursing" and "LPN certificate of achievement" were combined as one response option.

3. If you have a doctorate in nursing, please indicate the type of doctorate degree. (Mark all that apply.)

	Active Only	
	2009	2010
a) Doctor of Nursing (ND)	3.2%	2.7%
b) Doctor of Nursing Practice (NPD)	19.0	16.8
c) Doctor of Nursing Science (DNSc)	4.0	5.3
d) Doctor of Philosophy (PhD)	73.0	77.0

4. Are you currently enrolled in a program to obtain a Bachelor of Science in Nursing (BSN) degree?

	Active Only	
	2009	2010
a) Yes	4.1%	4.0%
b) No	95.9	96.0

5. Are you currently enrolled in a program to obtain a Master of Science in Nursing (MSN) degree?

	Active Only	
	2009	2010
a) Yes	2.7%	2.6%
b) No	97.3	97.4

6. Did you graduate from a nursing school in the United States or in another nation?

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
a) United States	93.7%	92.8%	95.1%	93.4%	93.6%	93.7%	94.4%
b) Other nation	6.3	7.2	4.9	6.6	6.4	6.3	5.6

7. What is your current employment status? (Mark **one**)

	2004	2005	2006	2007	2008	2009	2010
a) 35 or more hours per week in nursing or related area	62.3%	60.2%	61.6%	60.6%	60.8%	59.7%	59.3%
b) Less than 35 hours per week in nursing or related area	24.5	24.9	23.0	24.2	23.4	23.4	22.9
c) Employed, but not in nursing	3.1	2.9	3.3	2.7	2.7	2.6	2.6
d) Not employed, and seeking employment in nursing or related area	1.8	1.7	1.8	1.6	1.7	2.2	2.6
e) Not employed, and seeking employment outside of nursing	0.4	0.2	0.2	0.2	0.2	0.2	0.3
f) Temporarily not working and not looking for a job	4.3	4.9	5.1	4.8	4.6	5.1	4.9
g) Retired or with no plans to return to work	3.7	5.1	4.9	6.0	6.6	6.8	7.5

8. Identify your current employment setting(s). (Mark **all** that apply)

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
a) None (not active in nursing)	4.7%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
b) Hospital inpatient	50.2	57.7	58.9	57.5	56.5	56.5	54.3
c) Hospital outpatient	13.7	15.9	14.6	16.1	16.2	16.4	16.3
d) Non-hospital outpatient	2.6	3.7	3.8	3.8	4.3	4.1	4.7
e) Physician's office	5.4	6.9	6.4	6.6	6.5	6.5	6.7
f) Nursing home/long-term care facility	5.6	7.2	7.1	6.8	6.8	6.8	7.5
g) Home health care	5.1	6.8	7.3	6.9	6.9	7.0	7.8
h) Public/community health	3.6	3.9	3.6	3.9	3.8	3.8	2.6
i) School health	1.1	1.3	1.2	1.3	1.2	1.1	1.2
j) Hospice	2.2	2.3	2.6	2.7	2.7	2.9	2.9
k) Nursing education	4.7	4.7	4.3	4.9	4.9	4.8	4.7
l) Insurance company/health	1.9	1.9	1.9	2.0	2.2	2.2	2.2

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
plan							
m) Traveling/temporary nurse	2.6%	2.3%	2.8%	1.8%	1.7%	1.3%	0.9%
n) Other	7.4	8.6	8.4	8.2	9.0	8.1	8.5

9. Does your main nursing position involve providing direct care services to patients/families?

	2004	Active only					
		2005	2006	2007	2008	2009	2010
Yes	82.6%	85.1%	85.7%	84.5%	83.3%	83.1%	82.6%
No	17.4	14.9	14.3	15.5	16.7	16.9	17.4

10. If you provide direct care services, please identify your main practice area. (Mark **one**) (Note: Response frequencies for 2005, 2006, 2007, 2008, 2009, and 2010 are for *active* nurses only.)

	2004	Active only					
		2005	2006	2007	2008	2009	2010
a) Med-Surg	17.9%	16.0%	17.5%	17.2%	17.6%	15.5%	15.0%
b) Surgery	11.7	11.4	10.5	12.5	12.4	11.3	10.1
c) Critical care	15.2	14.2	14.9	12.9	12.4	12.8	9.1
d) Geriatrics/elderly care	—	7.2	7.1	7.1	7.3	6.5	7.5
e) Cardiology/cardiac care	—	—	—	—	—	—	7.6
f) Emergency/urgent care	9.2	7.4	7.8	7.1	7.3	7.1	7.3
g) Obstetrics	8.1	7.3	7.4	7.4	6.9	6.7	6.4
h) Pediatrics	5.9	5.2	5.6	5.0	5.1	4.3	4.8
i) Psychiatric/mental health	3.1	3.6	3.2	3.7	3.8	3.4	4.0
j) Case management	5.1	7.7	11.8	3.8	3.6	6.3	3.9
k) Oncology	—	2.8	2.9	3.1	3.2	2.9	3.5
l) General/family practice	3.3	2.0	1.2	2.5	2.4	2.7	3.1
m) Anesthesia	—	—	—	—	—	—	2.7
n) Hospice	—	—	—	—	—	—	2.5
o) Neonatal	—	—	—	—	—	—	2.5
p) Rehabilitation	—	—	—	—	—	—	2.2
q) Patient education	2.2	2.1	2.7	1.7	1.6	2.2	2.0
r) Endoscopy	—	—	—	—	—	—	1.8
s) Dialysis/hemodialysis	—	—	—	—	—	—	1.6
t) Other	18.2	12.9	7.4	16.2	16.6	18.3	2.3

NOTE: "Geriatrics/elderly care" and "Oncology" were added as response options on the 2005 survey. "Anesthesia," "Cardiology/cardiac care," "Endoscopy," "Hospice," "Neonatal," and "Rehabilitation" were added as response options on the 2010 survey.

11. To assist us in projecting the supply of nurses in the future, please tell us how much longer you plan to practice nursing.

Years	Active Only						
	2004	2005	2006	2007	2008	2009	2010
a) 1–5	13.1%	14.8%	13.2%	16.8%	17.7%	17.9%	19.5%
b) 6–10	18.0	20.3	19.8	21.4	21.4	22.3	21.5
c) 11–15	17.9	19.5	19.3	18.9	18.3	18.1	17.1
d) 16–20	18.9	18.5	20.1	17.3	17.2	16.7	15.8
e) 21–30	14.8	15.2	16.4	14.7	14.6	14.2	15.0
f) More than 30	5.1	5.4	5.5	5.8	6.2	7.0	7.3
g) Don't know	12.2	6.3	5.7	5.2	4.5	3.8	3.8

12. Have you voluntarily left a nursing position in the last two years?

	All RNs				
	2006	2007	2008	2009	2010
a) Yes	21.7%	21.5%	20.8%	19.8%	17.9%
b) No	78.3	78.5	79.2	80.2	82.1

13. If you voluntarily left a nursing position in the last two years, was it to... (Mark **one**)

	% of RNs who left a position				
	2006	2007	2008	2009	2010
a) take another nursing position in the same organization?	15.6%	18.0%	16.8%	18.2%	18.3%
b) take another nursing position with a different organization?	56.1	57.4	57.5	56.4	53.1
c) take a position outside of nursing?	8.3	6.8	6.2	5.4	5.2
d) retire/quit nursing?	20.0	17.7	19.5	20.1	23.4

14. If you voluntarily left a nursing position in the last two years, what were the factors that led to this decision? (Mark **all** that apply)

	% of RNs who left a position				
	2006	2007	2008	2009	2010
a) Age	12.6%	12.5%	13.9%	15.0%	16.0%
b) General lack of job satisfaction	40.3	43.0	41.3	38.5	37.5
c) Childbearing/childrearing	10.7	7.5	6.8	5.9	5.2
d) Personal or family concerns	29.8	27.7	27.1	26.6	26.1
e) Increasing administrative burden	10.7	12.7	12.8	10.4	10.7
f) Physical demands of the job	20.3	20.9	21.2	18.9	18.0
g) Employer/employee conflict	14.1	13.0	12.3	11.1	10.9

		% of RNs who left a position				
		2006	2007	2008	2009	2010
h)	Inadequate salary/wages	22.5	22.2	21.0	16.6	15.1
i)	Inadequate benefits	11.9	12.2	11.5	8.7	8.5
j)	Opportunity to work in nursing administration	3.2	3.9	3.9	3.7	4.0
k)	Opportunity to work in nursing education	3.0	3.9	3.1	3.7	3.4
l)	Career promotion	12.7	14.5	14.5	12.9	13.0

15. Where is your primary place of employment? (Mark **one**)

		Active Only					
		2005	2006	2007	2008	2009	2010
a)	Michigan	89.4%	87.9%	89.8%	88.7%	89.7%	89.7%
b)	Other state in the U.S.	9.4	11.4	9.1	10.0	9.0	9.2
c)	Canada	1.0	0.5	1.0	0.9	1.1	0.8
d)	Other nation	0.2	0.2	0.2	0.3	0.2	0.2

16. Where do you live? (Mark **one**)

		Active Only				
		2005	2007	2008	2009	2010
a)	Michigan	87.6%	88.6%	88.0%	89.0%	89.4%
b)	Other state	8.9	8.5	9.4	8.5	8.6
c)	Canada	3.3	2.7	2.2	2.3	1.7
d)	Other nation	0.2	0.1	0.4	0.2	0.2

Note: As a result of a mailing error, the responses to this question were not valid for 2006.

17. If you live in the U.S. or if your primary place of employment is in the U.S., what are the Zip Codes of your residence and primary place of employment?

18. In what year were you born? (Note: Response frequencies are for active nurses only. N = 27,850 in 2010.) Average age = 48.

		Active Only					
Age	2004	2005	2006	2007	2008	2009	2010
<25	1.4%	1.3%	1.6%	1.3%	1.7%	1.7%	1.5%
25–34	18.9	15.9	18.4	13.2	12.8	12.8	12.5
35–44	27.1	24.7	28.8	22.5	21.2	19.4	19.2
45–54	35.2	36.6	32.8	35.7	33.6	33.1	31.1
55–64	15.7	19.3	16.1	23.3	25.6	27.6	29.7
65+	1.6	2.8	2.2	4.0	5.1	5.4	6.0

One of the goals of the Michigan Center for Nursing is to increase diversity within the nursing profession. It would be helpful if you would answer the following questions:

19. What is your gender?

	Active Only						
	2004	2005	2006	2007	2008	2009	2010
a) Female	92.2%	93.2%	92.1%	93.8	94.0%	94.0%	93.9%
b) Male	7.8	6.8	7.9	6.2	6.0	6.0	6.1

20. Are you Spanish/Hispanic/Latino?

	Active Only				
	2006	2007	2008	2009	2010
a) Yes	1.5%	1.3%	1.4%	1.3%	1.4%
b) No	98.5	98.7	98.6	98.7	98.6

21. What is your racial/ethnic background?

	2004	Active Only 2005	Categories	Active Only				
				2006	2007	2008	2009	2010
a) American Indian/ Alaskan Native	1.0%	0.7%	American Indian/ Alaskan Native	1.3%	1.4%	1.5%	1.0%	1.2%
b) Asian or Pacific Islander	3.4	4.0	Asian	3.3	3.9	4.3	4.1	3.9
			Native Hawaiian or Pacific Islander	0.2	0.3	0.2	0.3	0.2
c) Black, non-Hispanic	5.5	6.0	Black or African American	7.6	6.2	5.6	5.8	5.3
d) Hispanic	0.9	1.0						
e) White, non-Hispanic	87.7	86.9	White	86.0	87.4	87.7	87.0	87.6
f) Multiracial	0.8	0.8						
			Middle Easterner (Arab/Chaldean/Other)	0.3	0.3	0.4	0.3	0.4
g) Other/ unknown	0.7	0.7	Some other race/ ethnicity	0.7	1.5	1.5	1.1	1.2

Survey Instrument and LPN Response Frequencies³ 2004–2010⁴

For 2010 survey results, N=6,985

This information is being collected by the Michigan Center for Nursing to describe the supply of and demand for nurses in Michigan. Data from this survey will be used to inform state and local decision making regarding the recruitment, education, and employment of nurses in Michigan. The information you provide will be confidential; the identity of individual respondents will not be shared with anyone. Completion of the questions below is voluntary and does not affect your license. However, this information is important and your participation is encouraged and truly appreciated. *Please complete the survey and return it with your renewal application in the envelope provided.* If you are both an LPN and an RN, complete and return only one survey.

If you renew your license via the Internet, you will have the opportunity to complete this survey online.

Go to www.michigancenterfornursing.org to view survey results and to sign up to receive Michigan Center for Nursing News & Updates electronically.

1. Are you a licensed practical nurse (LPN), a registered nurse (RN), or both? (Mark **one**. If you are both an LPN and an RN, complete and return only one survey.)

NOTE: This question was used only to identify respondents as RNs or LPNs and to determine the proportion of RNs who also hold a diploma/certificate as a LPN.

2. What is your education background? (Mark **all** that apply)

	Active Only					
	2005	2006	2007	2008	2009	2010
a) LPN diploma/ certificate of nursing	78.7%	97.3%	97.1%	97.4%	96.3%	96.9%
LPN certificate of achievement	22.7	—	—	—	—	—
b) RN diploma in nursing	0.7	0.7	0.9	0.8	0.8	0.7
c) Associate's degree in nursing	3.5	3.8	3.9	3.4	4.2	3.5
d) Bachelor's degree in nursing	1.0	1.0	0.9	1.1	1.1	1.2
e) Master's degree in nursing	0.1	0.0	0.1	0.1	0.1	0.1

³ Frequencies reported may not equal 100 percent due to rounding.

⁴ All nurses are required to renew their license every two years after receiving their first license, which results in two approximately equal cohorts of nurses. Analysis of survey data prior to 2009 shows a difference between these two cohorts of nurses in age distribution. Therefore, survey responses that may be affected by age—such as plans to continue practicing nursing—should be compared only to responses received from the same license renewal cohort two years ago (e.g., 2009 compared to 2007, 2008 compared to 2006).

	Active Only					
	2005	2006	2007	2008	2009	2010
f) Master's degree in other field	—	0.4%	0.5%	0.5%	0.5%	0.4%
g) Doctorate in nursing	0.0	0.0	0.0	0.0	0.0	0.0
h) Doctorate in other field	—	—	—	0.1	0.1	0.2
i) Other degree	5.5	7.1	7.5	8.3	6.7	6.4

NOTE: On the 2004 survey, LPNs were not asked for their education background.

3. If you have a doctorate in nursing, please indicate the type of doctorate degree. (Mark all that apply.)

This question is not applicable.

4. Are you currently enrolled in a program to obtain a Bachelor of Science in Nursing (BSN) degree?

	Active Only	
	2009	2010
a) Yes	2.6%	2.3%
b) No	97.4	97.7

5. Are you currently enrolled in a program to obtain a Master of Science in Nursing (MSN) degree?

	Active Only	
	2009	2010
a) Yes	0.1%	0.1%
b) No	99.9	99.9

6. Did you graduate from a nursing school in the United States or in another nation?

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
a) United States	98.6%	98.4%	98.7%	98.2%	98.3%	98.1%	97.9%
b) Other nation	1.4	1.6	1.3	1.8	1.7	1.9	2.1

7. What is your current employment status? (Mark **one**)

	2004	2005	2006	2007	2008	2009	2010
a) 35 or more hours per week in nursing or related area	56.7%	55.0%	57.4%	54.3%	54.3%	51.6%	50.2%
b) Less than 35 hours per week in nursing or related area	24.8	26.3	23.8	26.2	25.2	25.5	24.6

	2004	2005	2006	2007	2008	2009	2010
c) Employed, but not in nursing	5.4	4.8	4.9	4.3	4.8	4.6	4.7
d) Not employed, and seeking employment in nursing or related area	3.3	2.9	3.1	3.2	3.3	4.2	6.2
e) Not employed, and seeking employment outside of nursing	0.1	0.2	0.4	0.3	0.3	0.5	0.5
f) Temporarily not working and not looking for a job	5.0	5.8	6.1	5.6	5.6	6.5	6.5
g) Retired or with no plans to return to work	4.7	5.0	4.2	6.0	6.4	7.0	7.4

8. Identify your current employment setting(s). (Mark **all** that apply)

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
a) None (not active in nursing)	7.3%	0.4%	0.4%	0.4%	0.3%	0.2%	0.3%
b) Hospital inpatient	19.3	21.0	18.4	18.0	17.8	15.5	13.9
c) Hospital outpatient	4.8	5.9	5.7	6.2	5.4	5.7	5.3
d) Non-hospital outpatient	2.1	2.8	2.9	2.7	2.6	2.7	2.8
e) Physician's office	12.1	17.0	16.4	17.0	18.0	18.7	19.1
f) Nursing home/long-term care facility	35.0	44.4	46.9	44.5	44.6	44.1	45.1
g) Home health care	9.8	11.0	12.4	11.9	11.8	12.4	14.1
h) Public/community health	2.0	2.6	2.4	2.3	2.2	2.1	1.1
i) School health	1.6%	1.2%	0.9%	1.2%	0.9	1.3	1.4
j) Hospice	2.1	2.3	2.0	2.9	2.6	2.4	2.7
k) Nursing education	1.8	1.6	1.5	1.5	1.3	1.2	1.3
l) Insurance company/health plan	1.0	0.8	0.9	0.7	0.8	0.7	0.9
m) Traveling/temporary nurse)	1.3%	1.9%	2.4%	1.6%	1.4%	1.1%	1.1%
n) Other	8.4	7.0	6.7	7.1	7.2	7.5	6.5

9. Does your main nursing position involve providing direct care services to patients/families?

	Active Only						
	2004	2005	2006	2007	2008	2009	2010
Yes	82.4%	91.5%	92.3%	91.3%	91.0%	90.6%	90.0%
No	17.6	8.5	7.7	8.7	9.0	9.4	10.0

10. If you provide direct care services, please identify your main practice area. (Mark **one**) (Note: Response frequencies for 2005, 2006, 2007, 2008, 2009, and 2010 are for *active* nurses only.)

	2004	Active only					
		2005	2006	2007	2008	2009	2010
a) Geriatrics/elderly care	—	45.4	47.4	48.0	47.8	47.2	48.5
b) General/family practice	13.8	6.7	5.3	8.6	7.7	10.4	10.8
c) Pediatrics	7.3	4.4	4.7	4.6	5.2	4.7	6.8
d) Med-Surg	24.4	11.1	11.2	9.7	10.3	8.1	6.5
e) Rehabilitation	—	—	—	—	—	—	4.7
f) Obstetrics	3.4	3.6	2.5	3.3	3.0	2.5	3.1
g) Psychiatric/mental health	4.6	2.9	2.4	2.6	2.5	2.6	2.7
h) Surgery	3.0	2.8	2.7	3.0	3.0	3.0	2.5
i) Patient education	5.2	2.5	3.6	1.1	1.3	2.3	2.1
j) Hospice	—	—	—	—	—	—	2.0
k) Emergency/urgent care	2.6	2.2	2.2	2.0	2.1	1.8	1.9
l) Cardiology/cardiac care	—	—	—	—	—	—	1.8
m) Case management	2.8	3.8	7.0	0.8	0.4	1.6	1.1
n) Endoscopy	—	—	—	—	—	—	1.1
o) Oncology	—	0.9	0.6	0.9	0.8	0.6	0.8
p) Critical care	3.1	1.9	1.9	1.8	1.6	1.4	0.7
q) Dialysis/hemodialysis	—	—	—	—	—	—	0.7
r) Neonatal	—	—	—	—	—	—	0.2
s) Anesthesia	—	—	—	—	—	—	0.1
t) Other	29.8	11.6	8.6	13.7	14.3	13.7	1.9

NOTE: "Geriatrics/elderly care" and "Oncology" were added as response options on the 2005 survey. "Anesthesia," "Cardiology/cardiac care," "Endoscopy," "Hospice," "Neonatal," and "Rehabilitation" were added as response options on the 2010 survey.

11. To assist us in projecting the supply of nurses in the future, please tell us how much longer you plan to practice nursing.

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
a) 1–5 years	14.4%	16.7%	17.2%	18.7%	20.8%	20.9%	22.6%
b) 6–10 years	18.2	21.3	21.7	21.9	20.6	22.4	21.9
c) 11–15 years	14.1	17.4	17.2	15.9	15.8	14.5	14.7
d) 16–20 years	15.7	16.0	16.1	15.0	14.0	13.4	12.5
e) 21–30 years	13.5	12.7	13.4	12.5	13.2	12.7	13.2

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
f) More than 30 years	7.8	7.7	7.4	8.3	8.2	8.9	9.3
g) Don't know	16.3	8.2	6.9	7.7	7.4	7.1	5.9

12. Have you voluntarily left a nursing position in the last two years?

	% of all LPNs				
	2006	2007	2008	2009	2010
a) Yes	21.4%	20.9%	21.3%	20.2%	18.5%
b) No	78.6	79.1	78.7	79.8	81.5

13. If you voluntarily left a nursing position in the last two years, was it to... (Mark **one**)

	% of all LPNs who left a position				
	2006	2007	2008	2009	2010
a) take another nursing position in the same organization?	6.4%	6.9%	6.3%	6.2%	5.9%
b) take another nursing position with a different organization?	61.4	63.7	63.2	59.8	57.2
c) take a position outside of nursing?	10.9	9.1	7.8	7.7	8.3
d) retire/quit nursing?	21.4	20.3	22.6	26.2	28.5

14. If you voluntarily left a nursing position in the last two years, what were the factors that led to this decision? (Mark **all** that apply)

	% of all LPNs who left a position				
	2006	2007	2008	2009	2010
a) Age	12.7%	11.7%	17.1%	16.7%	19.9%
b) General lack of job satisfaction	38.6	38.6	36.9	36.6	35.1
c) Childbearing/childrearing	5.4	5.4	4.2	3.8	4.2
d) Personal or family concerns	32.1	28.8	28.2	26.9	25.5
e) Increasing administrative burden	10.5	12.8	12.5	10.5	10.1
f) Physical demands of the job	22.7	23.0	21.3	21.7	20.0
g) Employer/employee conflict	15.7	15.0	14.4	13.3	12.2
h) Inadequate salary/wages	26.0	26.3	24.6	19.3	17.4
i) Inadequate benefits	19.3	18.0	16.3	13.3	11.8
j) Opportunity to work in nursing administration	1.8	2.2	2.1	2.0	2.2
k) Opportunity to work in nursing education	1.9	1.1	1.3	1.1	0.6
l) Career promotion	9.9	7.8	8.6	8.4	7.8

15. Where is your primary place of employment? (Mark **one**)

	Active Only					
	2005	2006	2007	2008	2009	2010
a) Michigan	95.0%	94.4%	94.4	94.6%	94.8%	94.7%
b) Other state in the U.S.	4.9	5.4	5.3	5.3	5.0	5.1
c) Canada	0.1	0.1	0.2	0.1	0.2	0.1
d) Other nation	0.0	0.0	0.1	0.0	0.0	0.1

16. Where do you live? (Mark **one**)

	Active Only					
	2005	2006	2007	2008	2009	2010
a) Michigan	95.5%	94.7%	95.0%	94.8%	95.3%	94.7%
b) Other state	4.3	5.1	4.7	5.0	4.5	5.1
c) Canada	0.1	0.2	0.2	0.2	0.2	0.2
d) Other nation	0.0	0.0	0.0	0.1	0.0	0.0

17. If you live in the U.S. or if your primary place of employment is in the U.S., what are the Zip Codes of your residence and primary place of employment?

18. In what year were you born? (Note: Response frequencies are for active nurses only. N = 5, 183 in 2010.) Average age = 50

Age	Active Only						
	2004	2005	2006	2007	2008	2009	2010
<25	2.0%	5.0%	2.4%	2.1%	2.0%	1.9%	2.6%
25–34	18.0	9.2	16.2	11.2	11.2	11.3	10.8
35–44	24.2	20.6	23.5	18.0	17.0	15.9	15.8
45–54	31.3	35.7	33.1	33.9	30.6	30.4	28.2
55–64	22.0	24.9	20.9	28.7	31.7	32.4	34.5
65+	2.4	4.6	3.9	6.1	7.5	8.1	8.1

One of the goals of the Michigan Center for Nursing is to increase diversity within the nursing profession. It would be helpful if you would answer the following questions:

19. What is your gender?

	2004	Active Only					
		2005	2006	2007	2008	2009	2010
a) Female	94.2%	95.4%	95.6%	94.9%	95.5%	95.2%	95.6%
b) Male	5.8	4.6	4.4	5.1	4.5	4.8	4.4

20. Are you Spanish/Hispanic/Latino?

	Active Only				
	2006	2007	2008	2009	2010
a) Yes	2.1%	1.6%	1.6%	1.5%	1.4%
b) No	97.9	98.4	98.4	98.5	98.6

21. What is your race/ethnicity?

	2004	Active Only		Categories	Active Only				
		2005			2006	2007	2008	2009	2010
a) American Indian/Alaskan Native	1.6%	1.1%		American Indian/Alaskan Native	2.7%	2.4%	2.2%	1.8%	1.7%
b) Asian or Pacific Islander	1.5	1.7		Asian	1.4	1.7	2.0	2.0	2.0
				Native Hawaiian or Pacific Islander	0.1	0.2	0.2	0.2	0.2
c) Black, non-Hispanic	14.2	13.3		Black or African American	17.8	13.5	12.9	12.2	13.5
d) Hispanic	0.9	1.2							
e) White, non-Hispanic	80.5	81.4		White	77.3	82.2	82.8	82.8	81.4
f) Multiracial	0.9	0.8							
				Middle Easterner (Arab/ Chaldean/ Other)	0.2	0.1	0.1	0.1	0.1
g) Other/unknown	0.4	0.6		Some other race/ethnicity	1.0	1.8	1.7	1.3	1.2