



Advanced Practice Registered Nurse (APRN) 2018 Workforce Survey Report

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Completed in 2018, under the leadership of the Illinois Nursing Workforce Center Advisory (INWC) Board of Directors, this survey was the first Illinois Advanced Practice Registered Nurse (APRN) workforce study offered through direct requests to individual email addresses. The acquisition of data was accomplished through the collaboration of the following IDFPR sections: Licensing, the Division of Nursing, the Illinois Nursing Workforce Center and the State of Illinois Department of Innovation and Technology.

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Special thanks to the Advanced Practice Registered Nurses licensed in Illinois who responded to the survey. The feedback provided will make a significant contribution to planning health services in Illinois, specifically those focused on the nursing workforce.

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Talking Points

IL Nursing Workforce Center Advanced Practice Registered Nurse Survey 2018 Based on 2,272 APRN Respondents

APRN Workplace Settings

50% Practice in an ambulatory setting – outpatient clinic, private physician practice, etc.

29% Practice in hospital acute care settings

79% With most of their patients they counsel and educate both patients and families

40% With most of their patients they provide preventive care

Aging of the APRN Workforce

33% of the APRN workforce is over the age of 55 years of age

15% plan to retire in the next ten years

Diversity

More APRNs under the age of 55 years are from culturally and racially diverse backgrounds

Approximately half of Hispanic/Latino APRNs are under 45 years of age

Approximately half of Asian APRNs are under 45 years of age

Approximately forty percent of African American or Black APRNs are under 45 years of age

APRN Billing/Reimbursement

44% Manage a panel of patients

46% Bill exclusively under their National Provider Identifier (NPI) number

13% Bill under the clinic/facility NPI number

88% Accept patients insured by Medicaid

Reimbursement for services is split Medicare (34%), Medicaid (26%), Private Insurance (34%)

Summary

Aging APRN workforce, 15% are planning to retire within 10 years

Increase diversity of APRN workforce among younger age groups

Majority of APRNs work in an ambulatory setting

Approximately forty percent manage a panel of patients and bill under their NPI number

Reimbursement for services is divided amongst Medicare, Medicaid and Private Insurance

Executive Summary

General overview: Data on the characteristics, supply, and distribution of APRNs in the State of Illinois is essential to expanding access to care and planning for provision of essential primary and other health care services. The survey was conducted through an email direct request for participation post license renewal. Participation was voluntary, 16% or 2,272 of the 13,900 Illinois APRNs completed the survey. This report contains data on the demographics of Illinois' current APRN workforce, including type of APRN, the relative numbers of APRNs in each age group, their cultural diversity, and educational preparation. The data quantifies the services APRNs provide, the process that is used to bill for these services, reimbursement for services, and how the required collaborative agreement with an Illinois physician(s) is maintained. Finally, the survey captures the diversity of APRN specialty expertise and settings where patients receive these specialized services.

Aging workforce: The report presents important information about the aging of the Illinois APRN workforce, overall 33% respondents are over the age of 55 years. However, the average age varies based on type of APRN. There are four types of APRNs: Certified Registered Nurse Anesthetist (CRNA), Clinical Nurse Specialist (CNS), Certified Nurse Midwife (CNM) and Certified Nurse Practitioner (NP). For example, 50% of Certified Nurse Practitioners (NPs), 31% of CNMs, and 43% CRNAs are less than 46 years of age. Sixty Five percent of CNSs are 56 years of age or older. Interestingly, years of experience as an APRN does not closely correlate with the age of the APRN -- suggesting the diverse career trajectories of APRNs.

<u>Increasing diversity</u>: In contrast to the increase in cultural and racial diversity in the state of Illinois, data indicate a less culturally diverse Advanced Practice Registered Nursing workforce. Though the majority, 85% of APRNs are White, a higher percent of APRNs under the age of 55 years are from cultural and racially diverse backgrounds compared to APRNs in the older age range. For example, approximately half of Hispanic/Latino and Asian APRNs are under the age of 45 years, while approximately 40% of Black or African American APRNs are younger than 45 years of age. The results are similar to, but slightly higher than data reported in the 2016 APRN survey.

<u>Specialty/Work Place Characteristics</u>: The survey respondents reported on their nursing specialty, and workplace setting. The respondents were provided a choice amongst job settings as well as the option to write in settings that were not listed. Approximately 50% of respondents practice in ambulatory settings; approximately 30% practice in a hospital/inpatient setting. Some APRNs indicated time was split between hospital and outpatient settings. In line with Illinois regulation, APRNs maintain collaborative agreements but within a range of physician-collaborator relationships.

<u>Billing/Reimbursement</u>: Approximately 44% of APRN respondents indicated they manage a panel of patients, this is up from the 2016 survey which indicated that 30% of Illinois APRNs manage a panel of patents. Seventy-nine percent of APRNs indicate that with most of their patients, they counsel and educate both patients and families; in addition, approximately forty percent of respondents note they provide preventive care. Forty-six percent of respondents bill exclusively under their National Provider Identifier (NPI) number; this was followed by 13% billing under the clinic/facility number. With full practice authority, the numbers of APRNs managing a panel of patients in addition to providing education, counseling and preventive care it is anticipated to increase. It is also anticipated that the responses to the billing questions may change.

Summary: The 2018 Illinois APRN survey data will be extremely valuable as health care planners project the human health care capital that will be needed in Illinois. These data will be of great use in estimating the current APRN supply, their demographics, and practice specialties. The anticipated shortage of primary care providers is particularly acute in Illinois. Focused workforce planning is urgently needed to assure access to healthcare for Illinois residents. The full report is available on the Illinois Nursing Workforce Center website http://nursing.illinois.gov/ResearchData.asp

About the Data

The primary source of data for this report was a survey offered to individual Advanced Practice Registered Nurses (APRNs) completing a direct email survey post license renewal. The survey was conducted through one email direct request for participation between November 5 and December 10, 2018. Participation was voluntary, 16% or 2,272 of the 13,900 Illinois APRNs completed the survey. The Illinois Society for Advanced Practice Registered Nursing sent email notification to approximately 5,000 members that they would receive a survey participation request. The direct email request was conducted when the response (approximately 750) was limited with the process where individual APRNs renew at the time of online license renewal.

The survey included 50 questions consistent with the Health Resources and Services Administration (HRSA) designed National Sample Survey of Nurse Practitioners (NSSNP) with additions on language proficiency, billing practices, place-of-work zip codes, retirement, and professional collaboration. A full list of survey questions is provided in Appendix A. Information from the survey is categorized into four areas in this report: demographics (including age), human capital (education, specialties, earnings), and employment, job characteristics (settings, services, collaboration).

Demographics

Demographics are "the statistical characteristics of human populations..." https://www.merriam-webster.com/dictionary/demographic. This section examines the breakdown of select characteristics, such as age, sex, race and ethnicity among the population of Advanced Practice Registered Nurses (APRN) in Illinois.

The overall distribution of APRN survey participants by selected age categories is described below. Data were derived from participant responses to a question asking their date of birth (non-response 2.7%). The age ranges of respondents are similar to the APRN age range in the Illinois Department of Financial and Professional Regulation (IDFPR) licensure data base. Since the age ranges differ based on type of APRN, it is useful for each category to be reviewed separately.

Figure 1 apportions age by type of Advanced Practice Registered Nursing category. It illustrates that for three of the four types of APRNs, approximately one third are 44 years of age or younger. For example, 43% of Certified Registered Nurse Anesthetists (CRNAs) are under 45 years of age. Among the other categories, 31% of the Certified Nurse Midwives (CNMs) are younger than 45 years and a full 50% of Certified Nurse Practitioners (NPs) are younger than 44 years of age. The majority (65%) of Clinical Nurse Specialists (CNSs) are over 55 years of age. The growth of the CNS workforce may be impacted by the limited number of Illinois universities and colleges that offer the CNS certification.

Figure 1 Type of Advanced Practice Registered Nurse (APRN) and age

Type of Advanced	25-35	36-45	46-55	56-65	66-70	71+	Total
Practice Registered Nurse	years	years	years	years	years	years	
Certified Registered	22%	21%	22%	26%	7%	2%	15%
Nurse Anesthetist (CRNA)	72	69	71	84	24	6	326
Certified Clinical	3%	10%	23%	49%	13%	3%	8%
Nurse Specialist (CNS)	5	18	43	89	23	5	183
Certified Nurse	13%	18%	20%	34%	14%	1%	4%
Midwife (CNM)	13	17	19	33	14	1	97
Certified Clinical	25%	25%	22%	23%	4%	2%	72%
Nurse Practitioner (CNP)	400	401	345	360	63	27	1,596
Total responses	490	505	475	566	124	39	2,202

Figure 1: No response: age= 39 respondents

Figure 1: No response: type of APRN= 35 respondents

In Illinois there is one DNP Certified Nurse Midwifery program at the University of Illinois at Chicago, Chicago, Illinois. The number of Illinois APRN Certified Nurse Midwives (CNM) continues to increase, from 406 in 2012 to 502 in 2019. It is important to note that there are Women's Health Nurse Practitioner (WHNP) programs that focus on preparing clinicians who provide comprehensive healthcare throughout women's lives. These WHNP's are providing some of the care that CNM's provide in addition to offering primary care to women of all ages.

Diversity, race and ethnicity reported by survey respondents are illustrated in Figure 2 (below). To capture both race and ethnicity respondents answered the question "are you Hispanic or Latino"; followed by the question "What is your race/ethnicity (mark all that apply)". Summary responses are illustrated in Figure 2 below. (Because U.S. Census Bureau regards the Hispanic ethnonym as a culture, irrespective of race, these data may represent duplicate counts. https://suburbanstats.org/population/how-many-people-live-in-illinois)

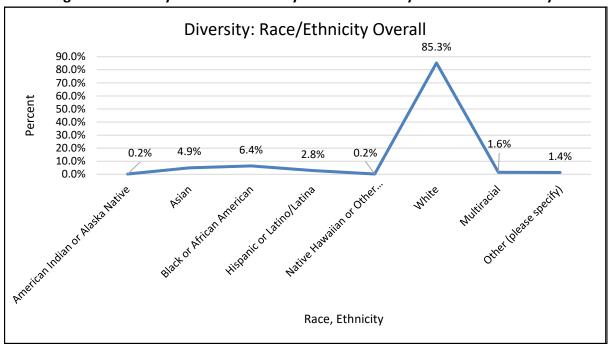


Figure 2: Diversity: race and ethnicity overall summary 2018 data table only

Figure 2: No response: ethnicity, Hispanic or Latino= 19 respondents

Figure 2: No response: race = 21 respondents

The distribution of racial and ethnic diversity of the Illinois Advanced Practice Registered Nurse (APRN) workforce is less robust than the diversity of the general population of the state. The United States (U.S.) Census Bureau in July 2016 reported that the Illinois population totaled 12.8 million.

Of the 12.8 million Illinois residents, 15% are Black/African American. In contrast, Black/African American race was indicated by only 6.4% of APRN respondents. Hispanic/Latinos

comprise 17% of the population of Illinois but only 2.8% of survey respondents. Survey responses indicated a clear majority of APRNs are White (85.3%). Schools of nursing and workforce incentives should seek to recruit and retain student cohorts reflective of the diversity of the general population.

Figure 3: Diversity: Hispanic or Latino ethnicity by age

Diversity: Are you Hispanic or Latino	25-35 years	36-45 years	46-55 years	56-65 years	66-70 years	71+ years	Total N=2,218
Hispanic or Latino Yes (percent)	21%	41%	20%	16%	2%	0%	3%
	13	25	12	10	1	0	61
Hispanic or Latino	22%	22%	22%	26%	6%	2%	97%
No (percent)	483	485	471	556	123	39	2,157
Total responses	495	510	483	566	124	39	2,218

Figure 3 Note: Hispanic is a culture regardless of race so respondent options for Hispanic were not included in the Multiracial category. Figure 3: No response = 19 respondents.

Figure 4: Diversity: Race by age

rigure 4. Diversity. Nace by age											
Diversity: by Age	25-35	36-45	46-55	56-65	66-70	71+	Total				
And Race	years	years	years	years	years	years	N=2,190				
American Indian or	40%	20%	0%	40%	0%	0%	0%				
Alaska Native (percent)	2	1	0	2	0	0	5				
Asian	35%	33%	19%	10%	0%	2%	5%				
	38	36	21	11	0	2	108				
Black or	14%	31%	31%	19%	4%	1%	7%				
African American	20	45	44	27	6	1	143				
Native Hawaiian or	80%	20%	0%	0%	0%	0%	0%				
Other Pacific Islander	4	1	0	0	0	0	5				
White	22%	21%	21%	27%	6%	2%	87%				
	416	405	401	519	120	34	1,895				
Multiracial	33%	32%	32%	21%	12%	0%	2%				
	12	11	11	7	4	0	34				
Total responses	492	499	473	563	126	37	2,190				

Figure 4: No response = 21 respondents

Racial and ethnic diversity increased among younger APRN respondents. A higher percent of APRNs under the age of 56 years are from cultural and racially diverse backgrounds compared

to APRNs in older age ranges. For example, 62% Hispanic/Latino APRNs are under the age of 46 years and 45% of Black or African American APRNs are younger than 46 years of age. This is a similar to the results of the previous 2016 APRN report. The July 1, 2018 United States Census-Illinois for race and Hispanic origin: 61% White, 14.6% Black or African American, 0.6% American Indian and Alaska Native, 5.7% Asian, 0.1% Native Hawaiian and Other Pacific Islander, 17.3% Hispanic or Latino and 2.0% two or more races. While the percent of representation amongst Illinois APRNs does not match that of the Illinois population, is increasing. it https://www.census.gov/quickfacts/fact/table/IL/PST045218

Language proficiency beyond English is a related issue with potential implications for effective healthcare provision to diverse populations. Out of all APRN survey respondents, 22% are proficient in a second language and use this second language at work caring for patients.

Respondents were asked "approximately when do you plan to retire?" Responses, below, indicate that more than half of survey participants (58%) plan to stay in the workforce beyond 10 years. Fifteen percent (15%) indicate they will retire within the next 10 years. This is essentially unchanged from the 2016 APRN Survey report where 57% of the respondents indicated a plan to stay in the workforce more than 10 years.

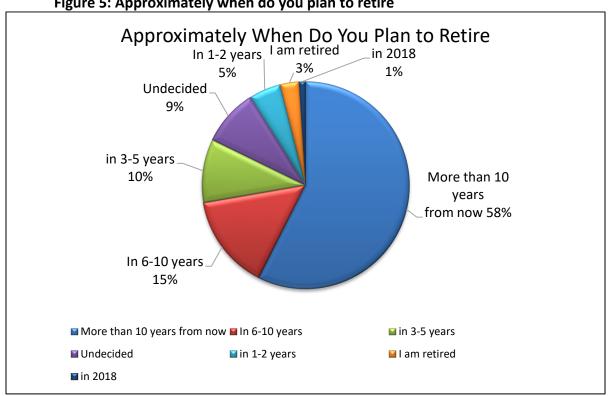


Figure 5: Approximately when do you plan to retire

Figure 5: No response = 280 respondents

Human Capital

Human capital refers to the stock of knowledge, education, experience, habits, social and personality attributes, including creativity, embodied in the ability to perform labor to produce economic value.

In the highly skilled workplace environment of healthcare delivery, patient cases are more complex than in the past, the population is aging, and the technology is increasingly sophisticated. Taken together, these factors mean that the ongoing development of human capital is increasingly important to ensure high quality of care and positive patient outcomes.

The skills, knowledge, education, talents and experiences of Advanced Practice Registered Nurse (APRN) employees (their human capital) are an extremely important intangible asset to the employer and to the entire healthcare system. Human capital is cultivated from continuing professional development, including academic coursework, conferences, workshops, and experience.

Advanced educational credentials are a requirement of the Advanced Practice Registered Nurse (APRN) workforce. In Illinois a minimum requirement of APRN licensure is a masters' degree in nursing and APRN certification. This is reflected in the survey responses: 99% respondents have APRN certification and 91% have a masters' degree or higher. Less than 4% of respondents reported completing a "certificate program" as preparation for licensure as an APRN and these individuals have been grandfathered into Illinois APRN licensure for many years.

In Illinois APRNs must first be licensed in Illinois as a registered nurse (RN) prior to becoming licensed as an APRN. The Illinois Nurse Practice Act (NPA) mandates for licensure as an advanced practice registered nurse in Illinois, is a minimum of a master's degree in nursing (IL NPA Article 65, Section 65-5(4)). Figure 6 below shows the types of degrees that Illinois APRNs have earned, beginning with the educational degree that was received when first licensed as a RN. Respondents checked off that multiple degrees were earned, the degree obtained with both an RN license and APRN license.

Approximately 26% of APRNs began their nursing education through a community college with an associate degree in nursing. Twelve percent of respondents received a diploma in nursing, this low number could be because currently there is only one RN diploma program in Illinois. Eight nine percent of respondents have a bachelor's degree in nursing; for some the bachelor's degree was the first degree obtained prior to becoming licensed as a nurse (RN). For others, who received nursing education through a community college or a diploma program, the bachelor's degree was obtained post-RN licensure. Eighty-nine percent of the respondents also have a master's degree in

nursing. Sixteen percent of the respondents have completed additional education resulting in a doctoral degree of which twelve percent are the Doctorate in Nursing Practice (DNP), a practicefocused doctoral degree that prepares experts in specialized advanced nursing practice. Figure 6 below displays all degrees earned by Illinois APRNs. There are a variety of education articulation pathways amongst nursing education programs leading to graduate education to practice as an Advanced Practice Registered Nurse. This is reflected in the number and type of degrees that Illinois APRNs have acquired prior to becoming licensed as an APRN. The survey did not ask what the highest degree was as a separate question.

The American Association of Nurse Practitioners (AANP) shows a growth in DNP programs nationally. As of 2018 there were 348 DNP programs enrolling students nationwide, and an additional 98 new DNP programs are in the planning stages. DNP programs are now available in all 50 states plus the District of Columbia. States with the most programs (10 or more programs) include California, Florida, Illinois, Massachusetts, Minnesota, New York, Ohio, Pennsylvania and Texas. From 2017 to 2018, the number of students enrolled in DNP programs increased from 29,093 to 32,678. During that same period, the number of DNP graduates increased from 6,090 to 7, 039. https://www.aacnnursing.org/DNP

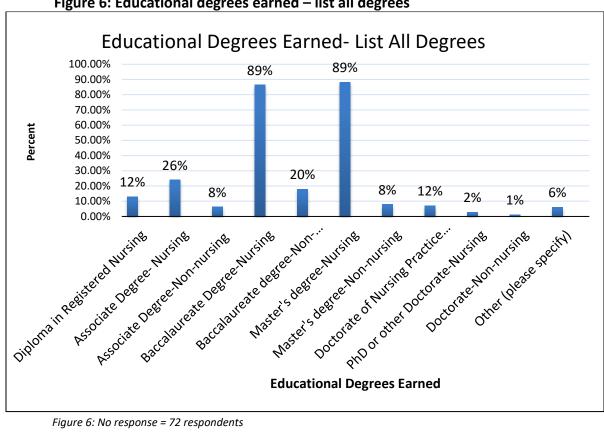


Figure 6: Educational degrees earned – list all degrees

Figure 6: No response = 72 respondents

The majority (60%) of survey respondents indicate becoming licensed as an APRN in the past 10 years (Figure 7 below). Data in Figure 8 below is from the IDFPR licensure database and reflects growth in the number and type of Illinois APRN beginning in 2001. This growth is similar to the increase in survey respondents initial Illinois APRN licensure during a similar time period. (Illinois Nursing Workforce Center http://nursing.illinois.gov/PDF/2018-01 to 2012 APNReport for Website.pdf). Figure 8 illustrates that in 2008 there were 6,164 Illinois APRNs, as of January 23, 2018 there were 13,819 APRNs, a 45% increase in the total number of active APRN licenses including all APRN specialties.

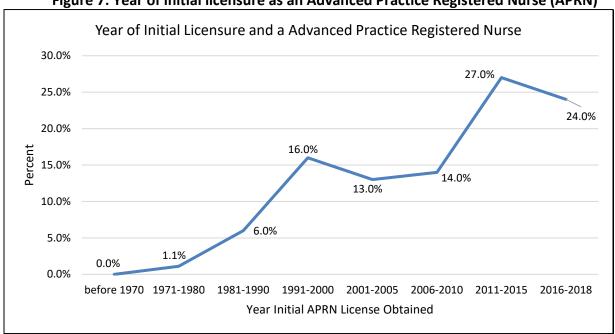


Figure 7: Year of initial licensure as an Advanced Practice Registered Nurse (APRN)

Figure 7: No response = 72 respondents

Figure 8: Type of APRN Specialty – data from the Illinois licensure database*

rigure 6. Type of Arkin Specialty – data from the illinois licensure database											
Type of APRN	2001	2008	2012	2014	2015	2016	2017	2018	2019		
Specialty			Jan	Feb	March	Jan	Feb	Jan	March		
CNS			1,023	1,054	1,034	1,081	1,016	1,056	989		
CRNA			1,924	1,883	1,849	1,997	1,945	2,076	2,044		
CNM			406	447	445	486	489	525	502		
CNP			4,682	5,917	6,411	7,697	8,777	10,162	11,175		
Total APRNs	1,976	6,164	7,833	9,301	9,739	11,261	12,227	13,819	14,710		

^{*}Figure 8: the number of APRNs indicated reflects the total number of APRNs licensed in Illinois on the date listed. Type of APRN was not available until 2012.

Data regarding APRN employment within medical specialty areas were categorized by practice specialties in the areas of Primary Care, Total Subspecialties, Surgical, and Other Specialty. Similar to the 2016 APRN survey, there are specialty areas of significant need (Psychiatric- Mental Health, Long Term Care) which contain a relatively small number of licensed APRNs.

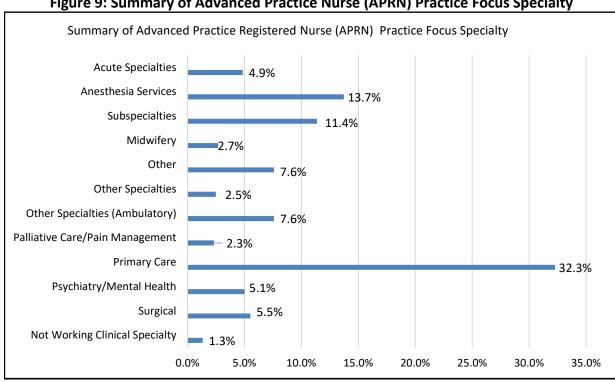


Figure 9: Summary of Advanced Practice Nurse (APRN) Practice Focus Specialty

Figure 9: No response = 335 respondents

A summary of Advanced Practice Registered Nurse (APRN) Practice Focus Specialty is described in Figure 9 (above); this summary reflects a combining of practice specialty responses based on similarities in specialty, acuity or - location of service. Certain specialties are shown separately due to the uniqueness of their care or setting (e.g. Anesthesia Services, Emergency, Midwifery, Palliative Care, Psychiatry/Mental Health). The specialties that were combined are as follows: Acute Specialties: Hospitalist (2.0%), Intensive Care (1.6%), Neonatal (1.3%), Other (0.4%)

- **Anesthesia Services:** (13.8%)
- **Emergency, Trauma** (3.7%)
- Subspecialties: Advance Disease Management (0.2%), Cardiology (3.77%), Endocrinology (1.55%), Gastroenterology (1.3%), Hematology/Oncology (2.5%), Infectious Disease (0.67%), Pulmonary/Respiratory (0.8%), Renal/Nephrology (0.7%), Rheumatology (0.1%)
- **Midwifery:** (2. 8%)
- **Other**: respondents listed individual specialty titles (0.7%)
- Other Specialties: Allergy and Immunology (0.3%), Dermatology (0.4%), Interventional Radiology (0.2%), Neurology (0.7%), Wound/Ostomy (0.8%), Other (1.3%)

- Other Specialties (Ambulatory Settings): Long Term Care (0.7%), Occupational Health (1.2%), Rehabilitation (0.7%), School Health (0.5%), Urgent Care (4.4%), Other (1.2%)
- Palliative Care, Hospice (2.9%)
- Primary Care includes Pediatrics through Gerontology/Geriatrics: Internal Medicine (4.8%), Family Practice (15.7%), Geriatrics (3.5%), General Pediatrics (2.7%), Pediatric Specialties (1.1%), OB/GYN Women's Health (4.6%)
- Psychiatric/Mental Health (5. 2%)
- **Surgical:** General Surgery (0.8%), Urological Surgery (0.6%), Orthopedic Surgery (1.6%), Other Surgery (2.5%), Other (1.7%)
- Not Working in a Clinical specialty: (3.4%)

Overall pre-tax earnings reported by respondents are illustrated in Figure 10. The median income for APRNs in Illinois with full time hours is approximately \$100,000 to \$105,000 range. That finding is consistent with national data from the United States Department of Labor, Bureau of Labor Statistics, which reports that the "median annual wage for nurse anesthetists, nurse midwives, and nurse practitioners was \$110,930 in May 2017. The median wage is the wage at which half the workers in an occupation earned more than that amount, and half earned less. The lowest 10 percent earned less than \$76,830, and the highest 10 percent earned more than \$180,460." (https://www.bls.gov/ooh/healthcare/nurse-anesthetists-nurse-midwives-and-nurse-practitioners.htm#tab-5)

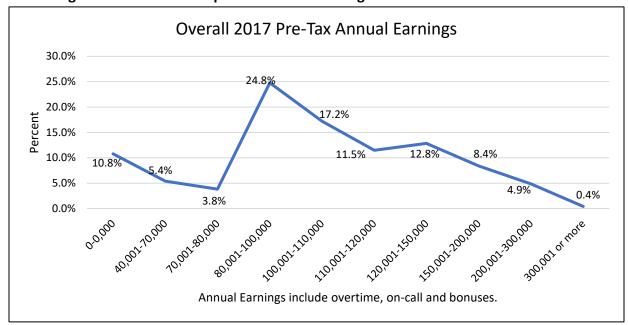


Figure 10: Overall 2017 pre-tax annual earnings

Figure 10: No response = 129 respondents

Information about annual salaries was reported by approximately 95% of the survey respondents, and information about typical weekly hours for primary positions was provided by

nearly 75% of survey respondents. Among the many survey questions, participants were asked about the number of hours worked in a typical work week, how and when they were paid, the estimated pre-tax annual earnings, and whether or not they worked overtime and on-call hours. The majority (72%) of Illinois APRNs reported that they work one job full-time, 31-40 hours per week, and are a salaried employee providing direct patient care. Approximately twenty-eight percent of APRNs work between 41-50 hours per week; 6.2% work more than 50 hours per week. Approximately 21% respondents indicated that they worked a second job. The salary question did not ask if the APRN was working full-time or part-time. Of the 2,264 total participants 129 did not respond, a 95% response rate. Salaries at the lower end of the scale may be associated with employment at less than full-time hours.

Respondents indicated 2017 pre-tax annual earnings, including overtime, on-call earnings, and bonuses. Those responses were categorized by salary ranges and by APRN type in Figure 11. The range of salaries varies by type of APRN: CRNA, CNS, CNM and NP.

Figure 11: Type of Advanced Practice Registered Nurse (APRN) and salary range

	Type of Advanced Practice Registered Nurse (APRN) and Salary Range											
Type of Advanced Practice Registered Nurse	\$0- 40,000	\$40,001- 70,000	\$70,001- 80,000	\$80,001 -100,000	\$100,001 -110,000	\$110,001 -120,000	\$120,001 -150,000	\$150,001 - 200,000	\$200,001 -300,000	\$300,001 and above	Total	
Certified Registered Nurse Anesthetist	5% 15	1% 3	1% 3	3% 10	2% 6	2% 7	12% 37	41% 127	31% 95	2% 5	14% 308	
Clinical Nurse Specialist	18% 32	7% 12	4% 7	22% 40	18% 33	13% 24	15% 27	3% 5	0% 0	0% 0	8% 180	
Certified Nurse Midwife	15% 14	4% 4	3% 3	32% 30	16% 15	12% 11	16% 15	3% 3	0% 0	0% 0	4% 115	
Certified Nurse Practitioner	11% 170	6% 97	4% 69	29% 451	20% 315	13% 204	13% 196	3% 45	1% 9	0% 4	73% 1,560	
Total Responses	231	116	82	531	369	246	275	180	104	9	2,143	

Figure 11: No response = 94 respondents

Figure 12 summarizes how APRNs are paid. Responses to the survey show that Advanced Practice Registered Nurses (APRNs) are typically paid an annual salary. Seventy-three per cent indicate they receive an annual salary rather than an hourly rate or a percentage of billing. This, too, is consistent with the national trend, according to the United States Department of Labor. The

Bureau of Labor Statistics reports that "most advanced practice registered nurses (APRNs) work full time. APRNs working in physicians' offices typically work during normal business hours. Those working in hospitals and various other healthcare facilities may work in shifts to provide round-the-clock patient care. They may work nights, weekends, and holidays. Some APRNs, especially those who work in critical care or those who deliver babies, also may be required to be on call." (https://www.bls.gov/ooh/healthcare/nurse-anesthetists-nurse-midwives-and-nurse-practitioners.htm#tab-5 (United States Department of Labor, Bureau of Labor Statistics Occupational Outlook Handbook, 2018, Nurse Anesthetists, Nurse Midwives, and Nurse Practitioners).

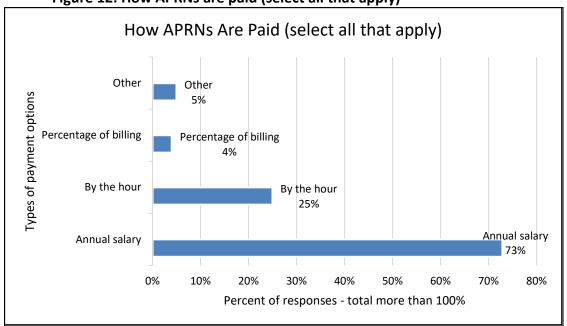


Figure 12: How APRNs are paid (select all that apply)

Figure 12: No response = 444 respondents

Of those APRNs who responded to working "on call", nearly 38% reported that they do take evening or weekend call. APRNs (79%) also reported that they either are not compensated for taking evening or weekend call, or taking call is included as part of the annual salary compensation. Seventy-three percent of APRNs are paid by annual salary, twenty four percent by the hour, four percent as percentage of billing, and five percent other. Though the majority of APRNs indicate that they are not reimbursed for working on-call, this may be because they are salaried and working on-call is included in their salary.

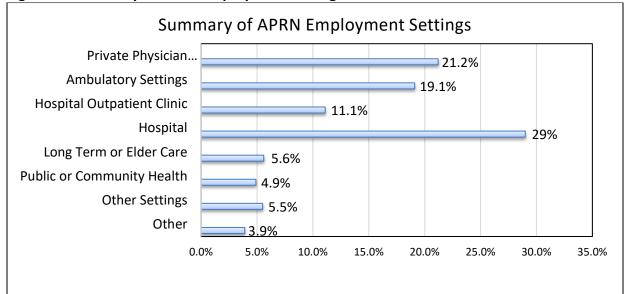


Figure 18: Summary of APRN Employment Settings

Figure 18: No response = 340 respondents

The practice settings (Figure 18 above) in the survey were grouped into six broad categories: private physician office or practice, ambulatory, hospital, long term and elder care, public or community health and other. A majority of APRNs (29%) work in a hospital setting. Amongst the various hospital settings, most APRNs work either in an inpatient unit (24%) or emergency department (3%), inpatient unit includes those working in the operating room (OR). The major ambulatory settings where APRNs are employed are either a private physician office or practice (21.2%), a hospital outpatient clinic (11.1%) or an ambulatory setting (19.1%). For a detailed description please see below.

- The survey offered twenty-eight different options to choose from to describe the
 employment setting as well as the opportunity to write in individual responses. If the
 individual response fit into a previously listed category, the response was moved into that
 category and the response percentages were adjusted. For purposes of this report the
 responses were combined as follows:
- Private physician office/practice: (21.2%)
- Ambulatory settings: Private APRN practice (2.4%), Nurse managed clinic (0.5%), Retail based clinic (2.3%), Urgent care clinic (4.2%), Ambulatory surgery center (2.9%), Federal clinic (FQHC, VA, Military, NIH, IHS) (6.8%)
- Hospital outpatient clinic: (not an emergency department) (11.1%)
- **Hospital inpatient settings:** Hospital inpatient unit (24.2%), Hospital emergency department (3.4%), Federal hospital (Military, VA, NIH, IHS) (0.6%), Hospital administration (0.3%), Hospital educator/education of staff and/or patients (0.5%)

- Long term and elder care: long-term care facility (2.8%), Advance disease management (0.7%), Hospice (0.5%), Palliative care (0.6%), Home care agency (1.0%)
- **Public or Community Health**: Community clinic (2.1%), Correctional facility (0.4%), Health department (0.5%), Mental health center (0.8%), Rural health clinic (1.1%)
- Other settings: Academic (university/college) education program (2.9%), Health maintenance organization/managed care (0.5%), Occupational/employee health (1.1%), School/college health service (1.0%)
- Other (written descriptions): (3.9%)

The largest number of responses from the "other" category that were moved were APRNs that worked in the operating room or peri-operative area; these were moved to "hospital inpatient unit", though some indicated that they worked in both inpatient and outpatient settings. Other responses included telehealth, research, industry, pharmacy, insurance, government and many listed specific clinic specialties. The next survey will include the operating room as a practice setting and may need to include inpatient and outpatient as a combined practice setting. The per cent responses in both ARPN 2016 and 2018 surveys were similar, for example, APRNs in private physician practice setting (2016: 19.2%; 2018: 21.2%) and hospital outpatient settings (2016: 9.8%; 2018: 11.18%) were similar as were the percent employed in hospital inpatient settings, 29% in 2018 and 30.4% in 2016. The overwhelming majority of APRNs work in either private physician practice, hospital inpatient, hospital outpatient or an ambulatory setting. Other settings showed similar results in past survey reports that were completed in 2015 and 2016. (The 2016 Illinois Nursing Workforce Center APRN report and the 2015 IHAC APRN report are available on the Illinois Nursing Workforce Center website: www.nursing.illinois.gov).

To determine how APRNs divided their time in the various settings, APRNs were provided four role options to choose from as to how their work time was spent. The total for each respondent was required to add up to 100%. Regardless of workplace setting, the vast majority of time was spent providing patient care/documentation (81%), followed by teaching/precepting/orienting (11%), supervision/administration (6.91%) and other (2%).

Services provided are summarized in Figure 19. Responses are ordered by frequency in the "most patients" column. The top five responses include; "counsel and educate patients and families", "conduct physical exams and obtain medical histories", "order, perform and interpret tests, diagnostic studies", "prescribe drugs for acute and chronic illnesses" and "diagnosis, treatment, management of acute illnesses".

Figure 19: Summary of Services Provided by APRNs

Summary of Services Provided by Advanced Practice Registered Nurses (APRNs)									
Type of Service	Most Patients	Some Patients	Few Patients	No Patients	Total*				
Diagnosis,	63.3%	18.2%	7.2%	11.4%	1,861				
treatment,	1,177	338	134	212	,				
management of acute illnesses	_, _, ,								
Diagnosis,	55.7%	20.6%	10.1%	13.7%	1,860				
treatment,		383	187	255	1,000				
management of	1,035	383	187	255					
chronic illnesses									
Conduct physical exams, obtain	82.1%	8.6%	2.9%	6.4%	1,859				
medical histories	1,526	160	54	119					
Order, perform,	68.3%	18.6%	6.1%	7.0%	1,874				
interpret lab tests,	1,652	467	170	315	_,~.				
x-rays, EKGs, other	1,032	407	170	313					
diagnostic studies Prescribe drugs for	CC 20/	12 50/	2.70/	17.70/	1.000				
acute and chronic	66.2%	12.5%	3.7%	17.7%	1,862				
illnesses	1,232	232	68	330					
Provide preventive	40.8%	17.6%	13.8%	27.85%	1,856				
care including	758	323	256	515					
screening and immunizations		0_0		0 = 0					
IIIIIIuiiizatioiis									
Type of Service	Most Patients	Some Patients	Few Patients	No Patients	Total*				
Deliver	14.8%	2.1%	5.1%	78.0%	1,855				
Anesthesia	275	38	95	1,447					
Provide	4.9%	11.7%	12.3%	71.1%	1,826				
psychotherapy	90	214	224	1,298					
Counsel and	79.0%	12.3%	3.8%	5.0%	1,868				
educate patients	1,475	230	70	93					
and families Perform	18.3%	30.5%	23.1%	28.1%	1,855				
procedures	340	566	428	521	1,655				
Type of Service	Most Patients	Some Patients	Few Patients	No Patients	Total*				
LIVUE OF SELVICE	INIUSERAUCIIES								
Provide care	47.6%	28.1%	12.2%	12.8%	1,859				
Provide care coordination	47.6% 885	28.1% 523	12.2% 227	12.8% 224	1,859				
Provide care	47.6% 885 34.9%	28.1% 523 38.6%	12.2% 227 13.0%	12.8% 224 13.5%					
Provide care coordination Make referrals	47.6% 885 34.9% 878	28.1% 523 38.6% 962	12.2% 227 13.0% 337	12.8% 224 13.5% 406	1,859 1,867				
Provide care coordination Make referrals Participate in	47.6% 885 34.9% 878 32.3%	28.1% 523 38.6% 962 33.4%	12.2% 227 13.0% 337 19.1%	12.8% 224 13.5% 406 15.2%	1,859				
Provide care coordination Make referrals Participate in practice	47.6% 885 34.9% 878	28.1% 523 38.6% 962	12.2% 227 13.0% 337	12.8% 224 13.5% 406	1,859 1,867				
Provide care coordination Make referrals Participate in practice improvement	47.6% 885 34.9% 878 32.3%	28.1% 523 38.6% 962 33.4%	12.2% 227 13.0% 337 19.1%	12.8% 224 13.5% 406 15.2%	1,859 1,867				
Provide care coordination Make referrals Participate in practice	47.6% 885 34.9% 878 32.3%	28.1% 523 38.6% 962 33.4%	12.2% 227 13.0% 337 19.1%	12.8% 224 13.5% 406 15.2%	1,859 1,867				

^{*}Total indicates the number of respondents that perform a service; the number may vary from line to line depending on the number of respondents that answered affirmatively

Figure 19: no response = 374 respondents

The APRNs were asked how many patients they provided services to in an average day, providing care as described above. Most APRNs indicated the number of patients seen in an average day; (48%) see between 0-10 patients, 41% see between 11-20 patients in an average day. A panel of patients is the number of individual patients under the care of a specific provider, in this survey, the provider is an Advanced Practice Registered Nurse (APRN). Approximately 44% of respondents indicated they manage a panel of patients, this is up from the 2016 Illinois APRN survey which indicated that 30% of Illinois APRNs manage a panel of patients. Of those with a panel, 29% see 200 patients, and approximately 19% see between 75-200 patients. 79% of APRNs indicate that with most of their patients, they counsel and educate both patients and families. This is in addition to approximately 40% APRNs provide preventive care. With full practice authority, the numbers of APRNs managing a panel of patients in addition to providing education, counseling and preventive care it is anticipated that these numbers will increase with less restrictive practice.

One survey question asked: "Do you have prescriptive authority, the ability and authority to prescribe medications and treatments to patients?" Eighty four percent of APRNs do have prescriptive authority, up from seventy seven percent in 2016. Approximately sixty seven percent of those who do not have prescriptive authority are CRNAs providing anesthesia services who work primarily in an inpatient or outpatient setting and do not need to prescribe medications. Twenty-three percent of the respondents who answered that they did not have prescriptive authority indicated that they did not need it to perform their job, that they worked in administration, research, education, insurance, pharmacy, government, or industry. Clinical Nurse Specialists (CNS) often work in inpatient settings where they may not need prescriptive authority; 13% of CNSs responded that they did not need prescriptive authority to perform their job. Of those nurses who have prescriptive authority, 77% have a controlled substance license, up from 65% in the 2016 Illinois APRN report. Approximately the same number (79%) also have a DEA number, which allows the APRN to prescribe certain controlled substances; this is also up from the 2016 Illinois APRN report (66%).

In the Spring of 2018 when these data were collected, according to Illinois statute, APRNs were required to work with a physician in a collaborative agreement unless they were practicing in hospital settings, ambulatory surgical treatment centers, or hospital affiliates (Illinois Nurse Practice Act, Article 65, Section 65-45). This is reflected in the responses as to how often a physician is present on site to discuss patient problems as they occur. Fifty percent (49.7%) responded that physicians are present 76-100% of the time. See Figure 20 (below) for a summary of the amount of time physicians are present with the APRNs while they are treating patients.

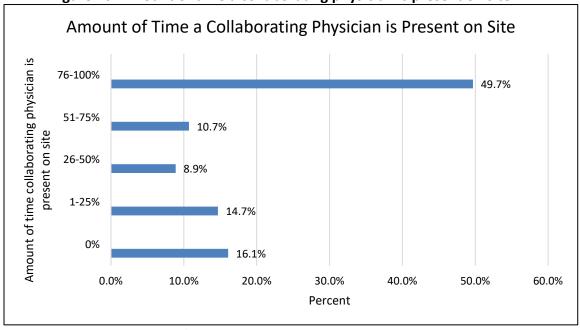


Figure 20: Amount of time a collaborating physician is present on site

Figure 20: No response = 412 respondents

The survey requested the specific type of professional relationship the APRN has with the collaborating physician and respondents could choose more than one option. The majority of APRNs (60%) responded that they collaborated with a physician who was on site. The next top three collaborations arrangements were: the collaborating physician is the medical director who oversees the practice (20% of APRNs), 21% collaborate with a physician at another site and for (16%) there is no hierarchy, physician and APRN are equal colleagues. In response to a separate question, the majority of APRNs (75%) do not pay the collaborating physician or physicians a fee. Only 5% of respondents indicated they do pay the collaborating physician a fee. With the change in the Illinois Nurse Practice Act (Sec 65-43) supporting Full Practice Authority, there may be an increase in the payment of physician collaboration fees.

The respondents were asked "to what extent would you agree or disagree that you are allowed to practice to the fullest extent of your state's legal scope of practice?" The second question asks about the extent of agreement with "...my APRN skills are being fully utilized." (See Figure 21). Though the 2018 Illinois Nurse Practice Act (NPA) expanded full practice authority for APRNs, the Rules or details of initiating full practice authority were not in place at the time data were collected for this survey. The responses to the two questions below may change with the 2020 Illinois APRN survey.

legal scope of practice and belief that APRN skills are being fully utilized Agreement regarding being allowed to practice to fullest extent of state's legal scope of practice and belief that APRN skills are being fully utilized 50.00% 40.00%

Figure 21: Agreement regarding being allowed to practice to fullest extent of state's

Figure 21: No response: "practice to the fullest extent of state's legal scope" = 413 respondents Figure 21: No response: "my APRN skills are being fully utilized" = 415 respondents

Agree

■ legal scope
■ fully utilized

30.00% 20.00% 10.00% 0.00%

Strongly agree

Survey responses to billing arrangements and the use of a National Provider Identifier (NPI) number were derived from two questions. The response rate to the first question, "Do you have an NPI number?", was 97% (in 2015 - 73.5%). The second question asked, "Which of the following best describes your billing arrangements for your principal APRN position?" Options include "Bill under a physician's number", "Bill under my clinic/ facility number", "Bill under my provider number", "No billing, cash only", and "No, billing, grant supported/ free clinic". For clarity of presentation the two questions were combined into one graphic, Figure 22.

Disagree

Strongly disagree

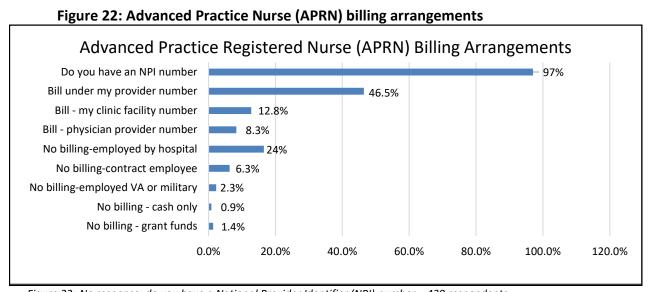


Figure 22: No response: do you have a National Provider Identifier (NPI) number = 439 respondents Figure 22: No response: billing arrangements = 406 respondents

Survey respondents indicated reimbursement for APRN services is from Medicare (34%), Medicaid (26%), private insurance (34%), no insurance (4%) and a small percent of APRNs are not involved in direct patient care (3%). Services provided to Medicaid recipients are particularly important since it is anticipated that one-third of MDs will not accept any new Medicaid Patients.

Emerging Trends: Workplace Violence

The Illinois General Assembly (IGA) recently passed the Health Care Violence Prevention Act (Public Act #100-1051) to combat the violence that occurs against health care workers in nearly all care settings. To better understand workplace violence, three questions were added. The questions were prefaced by the Emergency Nurses Association (ENA) definition of violence: an act of aggression directed toward persons at work or on duty that ranges from offensive or threatening to homicide. Workplace violence is commonly understood as any physical assault, emotional or verbal abuse, or threatening, harassing, or coercive behavior in the work setting that causes physical or emotional harm. Both the questions and the definition were used with permission from the Emergency Nurses Association.²

The three workplace violence questions are in the appendix of this report. In summary, 31% of APRNs reported experiencing physical or verbal abuse (based on the ENA definition) at least quarterly; 27% have never attended workplace violence training and the clear majority, 77%, know that the facility where they work has a policy for reporting workplace violence. Approximately 450 respondents skipped each of these questions.

Limitations

There are several limitations to this survey report. First, there was an initial low response rate (6%), approximately 800 respondents, during the license renewal period. The renewal period ran from March 4 – May 31, 2018. During that time period, there were 13,353 Advanced Practice Registered Nurses (APRNs) in Illinois. The Illinois Nursing Workforce Center requested additional distribution of the survey, and the request for participation was sent by the Illinois Department of Financial and Professional Regulation (IDFPR) Licensing Section to the 13,934 Illinois APRNs via email once on November 5, 2018. The survey was closed to data collection on December 9, 2018; the overall response rate was 2,284 (16%). The approximately 800 survey responses that were collected during license renewal were not included in this report.

The survey data were compared to the IDFPR licensure database for validity. The voluntary responses were reflective of the Illinois APRNs with respect to age. For all categories the percentage of respondents in each age range was similar.

Discussion

The 2018 Illinois Advanced Practice Registered Nursing survey report provides valuable data on this important workforce. The size of the Illinois APRN workforce has grown by approximately 34% since 2014. Most of this increase can be attributed to the Certified Nurse Practitioner (NP) specialty group which increased by 47% (from 5,917 in 2014 to 11,175 in 2019). Two of the other three types of APRN specialties increase as followed: Certified Registered Nurse Anesthetist increased by 8% (from 1,883 in 2014 to 2,044 in 2019); Certified Nurse Midwives (from 447 in 2014 to 502 in 2019) 11%. The Clinical Nurse Specialist APRN decrease by 6 % from 2014 to 2019 (from 1,054 to 989).³

Yet even with this overall growth, Illinois NPs remain at approximately 60 per 100,000 population. Considering that 42% of the APRN population is over 55 years of age, there is reason for concern about the availability of APRNs to address the needs of Illinois citizens, particularly within Illinois' 229 Health Professional Shortage Areas.⁴ These concerns heighten considering Psychiatric Mental Health (PMH) NPs; a small percent of NPs (5%) challenged to address the 126 Illinois Mental Health Professional Shortage areas. With our ever increasing 65 years and over group (15.2%),⁴ also concerning is the small percent of APRNs practicing in Geriatrics (3.5%) and in long term care (0.72%). The complex needs of theses populations and the growing shortages of physicians compound the workforce needs for this group. ⁴

Schools/Colleges of Nursing must continue efforts to recruit and enroll diverse student cohorts. While cultural diversity is improving slightly in younger APRN age groups, the workforce remains largely female and the majority Caucasian/White (85. 3%). This is of particular concern considering the cultural and racial diversity of the State: 17 % Hispanic or Latino and 14.6 % Black or African American; and 5.7% Asian.⁵

The majority of APRNs provide direct care (94%) in a variety of ambulatory and inpatient services. APRNS are providing the basics of primary care, diagnosis/treatment/management, physical exams and prescribing medications. A large part of their role is also educating families and providing care coordination. Most see between 10 and 20 patients per day; indicating that these APRNS are valuable providers for basic health needs of Illinois Citizens. In addition, a large portion of APRN services are to Medicare (34%) and Medicaid (26%) recipients, which research demonstrates is of high quality yet with a less intensive use of costly health services.⁶

Finally, with the anticipated change in the Illinois practice laws, these data serve as an important baseline for gauging the impact of increased practice authority. Billing may be one area to monitor. While 97% of APRNs have an NPI number only 47% bill under this provider number. Data indicate a greater percent of APRNs who do not work within an MD practice use their NPI

number.⁷ Currently 61% of APRNs collaborate with a physician on site, so it will be interesting to monitor how this changes with independent practice and how this change impacts billing practices and patient panels.

The 2018 Illinois APRN survey results indicate relatively low numbers of APRNs and primary care providers in the state. It is important to continue to recruit and train a diverse APRN workforce to address the human health care capital that will be needed in Illinois. This will be critical to low income and low access areas of the state. Continued data collection and focused workforce planning are vital to assure access to healthcare for all Illinois residents.

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Appendix A

Questions from the 2018 APRN Voluntary License Renewal Survey

- 1. What is your gender?
- 2. Are you Hispanic/Latino? (Yes or No)
- 3. Select one of the following races that apply to you.
- 4. If you are proficient in a language other than English, do you utilize this language in your current position? (If you are not proficient in a language other than English, lease skip this question).
- 5. What is your year of birth?
- 6. Which educational program(s) did you complete for your APRN preparation? (Check all that apply)
- 7. What is your APRN license?
- 8. In which state(s) or U.S. territories do you currently have certification/licensure/recognition to practice as an APRN? (Select up to 3)
- 9. In which area(s) have you ever received certification from a national certifying organization for APNs? (Check all that apply)
- 10. In what year did you receive your initial APRN license?
- 11. In what year did you obtain your initial RN/registered nurse license?
- 12. Please check all educational degrees that you have earned:
- 13. Please estimate our 2017 pre-tax annual earnings from our APRN primary position. Include overtime, on-call earnings, and bonuses.
- 14. If you are not working as an APRN, what are the reasons? (Check all that apply)
- 15. In how many positions are you currently employed as an APRN?
- 16. Functioning in your primary APRN position, check the one term below that best describes the focus of your practice/facility. Choose from Primary Care, Subspecialties, Surgical Specialties, Other Specialties or check "Not working in a clinical specialty".
- 17. For this survey, your primary position refers to the APRN position in which you work the most hours per week and are compensated monetarily. Do not include volunteer positions or adjunct faculty status. Describe your primary position? Check only one.
- 18. In what type of setting do you work in your primary APRN position? (*Please select only one*)
- 19. Functioning in your primary APRN position, do you provide direct patient care?
- 20. Functioning in your primary APRN position, what percentage of your time is spent in each of the following roles? The total must equal 100%.
- 21. Regarding your primary APN position, for how many patients do you provide the following services?
- 22. Which of the following best describes your billing arrangements for your primary APRN position?
- 23. How often is a physician present on site to discuss patient problems as they occur in your primary APRN position?

- 24. What type of professional relationship do you have with the physician(s) in your primary APRN position? (Select all that apply)
- 25. Do you pay your collaborating physician a fee?
- 26. If you do pay your collaborating physician a fee, how would you define the fee schedule (Check all that apply)? Is it:
- 27. Are you privileged and credentialed at your primary place of employment?
- 28. To what extent would you agree or disagree with the following: In my primary APN position I am able to practice to the fullest extent of my state's legal scope of practice.
- 29. To what extent would you agree or disagree with the following: In my primary APRN position, my APRN skills are being fully utilized.
- 30. I receive adequate administrative support in my primary APRN position in order that my APRN skills are fully utilized.
- 31. How many patients do you see on an average day?
- 32. Do you have a panel of patients you manage and for whom you are the primary provider?
- 33. Are you required to take evening or weekend call for any of your APRN positions?
- 34. Are you compensated for taking evening or weekend call for any of your APRN positions?
- 35. Are you covered by malpractice insurance?
- 36. Who pays for your malpractice insurance?
- 37. Do you have prescriptive authority?
- 38. If you don't have prescriptive authority why not?
- 39. Do you have a National Provider Identifier (NPI) number?
- 40. Do you have a controlled substance license in Illinois?
- 41. Do you currently have a personal drug enforcement administration (DEA) number?
- 42. Do you and/or your practice accept Medicaid?
- 43. Regarding patients for whom you provide care, who pays the majority of the cost?
- 44. How are you paid for your primary APRN position? (Select all that apply)
- 45. In a typical week, how many hours do you work in your primary position?
- 46. What is the ZIP code(s) where you practice your APRN primary position? You may enter up to three zip codes, each followed by a comma. If you do not know the zip code, lease supply the county
- 47. How often have you experienced patient/visitor/family physical or verbal abuse while at work?
- 48. Where have you attended workplace violence training?
- 49. Does your hospital/facility have a policy in place for reporting workplace violence incidents?
- 50. Approximately when do you plan to retire from nursing and ARN work?