

**COMMITTEE OF THE JOINT BOARDS OF NURSING AND MEDICINE
AND ADVISORY COMMITTEE OF THE JOINT BOARDS**

Department of Health Professions
Henrico, Virginia 23233

BUSINESS MEETING AGENDA

Wednesday, February 28, 2024, at 9:00 A.M.- **Board Room 2**

***DHP Mission** – the mission of the Department of Health Professions is to ensure safe and competent patient care by licensing health professionals, enforcing standards of practice, and providing information to health care practitioners and the public.*

Call To Order – Cindy M. Swineford, RN, MSN, CNE; Chair

Establishment of Quorum

Welcome New Members

Joint Boards Committee Members:

- John R. (“Randy”) Clements, DPM
- Karen A. Ransone, MD

Advisory Committee Member:

- Adam T. Kaul, MD

Dialogue with DHP Director – Mr. Owens

Staff Reports – (Dr. Hills)

- New Profession Update - Licensed Certified Midwife
- APRN Tab on BON website
- APRN Licensure & Discipline Update

Public Comment

A. Discipline Minutes

- October 25, 2023 – information only

B. Legislation/Regulations – Ms. Barrett

- Chart of Regulatory Actions (distributed day of meeting)
- Report of the 2024 General Assembly (distributed day of meeting)

C. New Business

- Healthcare Workforce Data Center (HWDC) Reports
Presentation: Yetty Shobo, PhD, Executive Director
Barbara Hodgdon, PhD, Deputy Director
 - ❖ APRN Workforce Report: 2023
 - ❖ APRN Specialties Comparison Report: 2023

Environmental Scan – Advisory Committee Members (verbal report)

Adjourn

Next Meeting – Wednesday, April 24, 2024, at 9:00 A.M in Board Room 2

**10:30 A.M. – Consideration of Agency Subordinate Recommendations
Members of the Committee of the Joint Boards ONLY**

DRAFT

Virginia's Licensed Advanced Practice Registered Nurse Workforce: Comparison by Specialty

Healthcare Workforce Data Center

December 2023

Virginia Department of Health Professions
Healthcare Workforce Data Center
Perimeter Center
9960 Mayland Drive, Suite 300
Henrico, VA 23233
804-597-4213, 804-527-4466(fax)
E-mail: HWDC@dhp.virginia.gov

Follow us on Tumblr: www.vahwdc.tumblr.com

Get a copy of this report from:

<http://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/ProfessionReports/>

Over 12,000 Licensed Advanced Practice Registered Nurse voluntarily participated in the 2021 and 2022 surveys. Without their efforts the work of the center would not be possible. The Department of Health Professions, the Healthcare Workforce Data Center, and the Joint Boards of Nursing and Medicine express our sincerest appreciation for their ongoing cooperation.

Thank You!

Virginia Department of Health Professions

Arne Owens, MS
Director

James Jenkins, BS/N, RN, SCRN
Chief Deputy Director

Healthcare Workforce Data Center Staff:

Yetty Shobo, PhD
Executive Director

Barbara Hodgdon, PhD
Deputy Director

Rajana Siva, MBA
Data Analyst

Christopher Coyle, BA
Research Assistant

Joint Boards of Nursing and Medicine

Members

Laurie Buchwald, MSN, WHNP, NCMP, FNP
Radford

Blanton L. Marchese
North Chesterfield

Helen M. Parke, DNP, FNP-BC
Concord

Joel Silverman, MD
Richmond

Ryan Williams, MD
Suffolk

Executive Director, Board of Medicine

William Harp, MD

Executive Director, Board of Nursing

Jay P. Douglas, MSM, RN, CSAC, FRE

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Results in Brief

This is a special report created for the Committee of the Joint Boards of Nursing and Medicine. The report uses data from the 2022 and 2023 Advanced Practice Registered Nurse Surveys. The Virginia Department of Health Professions' Healthcare Workforce Data Center (HWDC) administers the survey during the license renewal process, which takes place during a two-year renewal cycle on the birth month of each respondent. Therefore, approximately half of all APRNs have access to the survey in any given year. Two years' worth of data, therefore, will allow all eligible Advanced Practice Registered Nurses (APRNs) the opportunity to complete the survey. The 2022 survey occurred between October 2021 and September 2022; the 2023 survey occurred between October 2022 and September 2023. The survey was available to all renewing APRNs who held a Virginia license during the survey period and who renewed their licenses online. It was not available to those who did not renew, including APRNs who were newly licensed during the survey period.

This report breaks down survey findings for certified registered nurse anesthetists (CRNA), certified nurse midwives (CNM), and certified nurse practitioners (CNP). CNPs make up the highest proportion of APRNs. Over 80% of APRNs are CNPs and CNMs constitute only 3% of APRNs. The full time equivalency units are also similarly distributed by specialty.

Nine of ten APRNs are female; CNMs are all female whereas approximately 71% of CRNAs are female; 92% of CNPs are female. The median age of all APRNs is 44. The median age of CRNAs is 46 and the median age for CNMs and CNPs is 44. In a random encounter between two APRNs, there is a 44% chance that they would be of different races or ethnicities, a measure known as the diversity index. CNMs were the least diverse with 36% diversity index; CRNAs and CNPs had 41% and 45% diversity indices, respectively. Overall, 11% of APRNs work in rural areas. CNPs had the highest rural workforce participation; 13% of CNPs work in rural areas compared to 6% and 7% of CRNAs and CNMs, respectively.

CRNAs had the highest educational attainment with 19% reporting a doctor of nursing practice degree; only 10% of CNMs and 10% of CNPs did. However, CNMs reported the highest median education debt of \$95k and half of CNMs had education debt. Over half of CNPs also reported education debt although they had the lowest median at \$60k-\$70k. CRNAs had \$80-\$90k in education debt but only 40% of all CRNAs carried education debt.

CRNAs reported the highest median annual income, \$120k or more per year, which reflected the median for all APRNs. Further, 87% of CRNAs reported \$120,000 or more in annual income compared to 38% of CNMs and 24% of CNPs. However, only 68% of CRNAs received at least one employer-sponsored benefit compared to 81% of CNMs and 80% of CNPs. Overall, 93% of APRNs are satisfied with their current employment situation. However, only 89% of CNMs were satisfied compared to 97% of CRNAs and 93% of CNPs. Almost a third of all APRNs reported employment instability in the year prior to the survey, with CNMs being most likely to report employment instability.

CRNAs had the highest participation in the private sector, 92% of them worked in the sector compared to 87% of CNMs and CNPs. Meanwhile, CRNAs had the lowest percent working in federal, state, or local government. CRNAs and CNMs were most likely to be working in the inpatient department of hospitals whereas CNPs were most likely to work in primary care clinics. Only 13% of CRNAs used at least one form of electronic health record or telehealth compared to 42% of CNMs and 45% of CNPs. More than one in four CRNAs plan to retire within the next decade compared to 21% of CNMs and 18% of CNPs. About 50%, 36% and 40% of CRNAs, CNMs, and CNPs, respectively, plan to retire by the age of 65. Meanwhile, 3%, 4%, and 6% of CRNAs, CNMs, and CNPs, respectively, do not intend to retire.

A Closer Look:

At a Glance:

Licensed APRNs

| | |
|--------|--------|
| Total: | 21,235 |
| CRNA: | 2,771 |
| CNM: | 531 |
| CNP: | 17,933 |

Response Rates

| | |
|---------------------------------|-----|
| All Licensees: (2022 & 2023) | 61% |
|---------------------------------|-----|

Source: Va. Healthcare Workforce Data Center

This report uses data from the 2022 and 2023 APRN Surveys, and licensure data retrieved in October 2023. Two years of survey data were used to get a complete portrait of the APRN workforce since APRNs are surveyed every two years in their birth month. Thus, every APRN would have been eligible to complete a survey in only one of the two years. Newly licensed APRNs do not complete the survey, so they are excluded from the survey. From the licensure data, 2,771 of APRNs reported their first specialty as CRNA; 531 had a first specialty of CNM, and 17,933 had other first specialties. However, 86 CNMs reported one additional specialty. 28 CRNAs also reported one other specialty. “At a Glance” shows the break down by specialty. Over 80% are CNPs, 13% are CRNAs, and about 3% are CNMs.

| Response Rates | | | | |
|-------------------------------------|------------|------------|------------|--------------|
| | CRNA | CNM | CNP | Total |
| Completed Surveys 2022 | 830 | 160 | 4,780 | 5,770 |
| Completed Surveys 2023 | 965 | 170 | 5,965 | 7,100 |
| Response Rate, all licensees | 65% | 62% | 60% | 61% |

Source: Va. Healthcare Workforce Data Center

Our surveys tend to achieve very high response rates. An average of 61% of APRNs submitted a survey in both 2022 and 2023. As shown above, the response rate was highest for CRNAs and lowest for CNPs.

| Not in Workforce in Past Year | | | | |
|---|------|-----|-----|------------|
| | CRNA | CNM | CNP | All 2022 |
| % of Licensees not in VA Workforce | 31% | 19% | 26% | 19% |
| % in Federal Employee or Military: | 7% | 21% | 11% | 13% |
| % Working in Virginia Border State or DC | 15% | 15% | 22% | 20% |

Source: Va. Healthcare Workforce Data Center

CRNAs were most likely to not be working in the state workforce whereas CNPs were most likely to be working in border states.

Definitions

- 1. The Survey Period:** The survey was conducted between October 2021 and September 2022, and between October 2022 and September 2023, on the birth month of each renewing practitioner.
- 2. Target Population:** All APRNs who held a Virginia license at some point during the survey period.
- 3. Survey Population:** The survey was available to APRNs who renewed their licenses online. It was not available to those who did not renew, including APRNs newly licensed during the survey time frame.

A Closer Look:

At a Glance:

2021 and 2022 Workforce

Virginia's APRN

Workforce: 15,591

FTEs: 13,435

Workforce by Specialty

CRNA: 2,173

CNM: 427

CNP: 12,991

FTE by Specialty

CRNA: 1,869

CNM: 409

CNP: 11,176

Source: Va. Healthcare Workforce Data Center

Definitions

- 1. Virginia's Workforce:** A licensee with a primary or secondary work site in Virginia at any time during the survey timeframe or who indicated intent to return to Virginia's workforce at any point in the future.
- 2. Full Time Equivalency Unit (FTE):** The HWDC uses 2,000 (40 hours for 50 weeks) as its baseline measure for FTEs.
- 3. Licensees in VA Workforce:** The proportion of licensees in Virginia's Workforce.
- 4. Licensees per FTE:** An indication of the number of licensees needed to create 1 FTE. Higher numbers indicate lower licensee participation.
- 5. Workers per FTE:** An indication of the number of workers in Virginia's workforce needed to create 1 FTE. Higher numbers indicate lower utilization of available workers.

| Virginia's APRN Workforce | | | | | | | | |
|--|--------------|-------------|------------|-------------|---------------|-------------|---------------|-------------|
| Status | CRNA | | CNM | | CNP | | All (2023) | |
| | # | % | # | % | # | % | # | % |
| Worked in Virginia in Past Year | 2,162 | 99% | 409 | 96% | 12,737 | 98% | 15,308 | 98% |
| Looking for Work in Virginia | 11 | 1% | 18 | 4% | 254 | 2% | 283 | 2% |
| Virginia's Workforce | 2,173 | 100% | 427 | 100% | 12,991 | 100% | 15,591 | 100% |
| Total FTEs | 1,869 | | 409 | | 11,176 | | 13,435 | |
| Licensees | 2,771 | | 531 | | 17,933 | | 21,235 | |

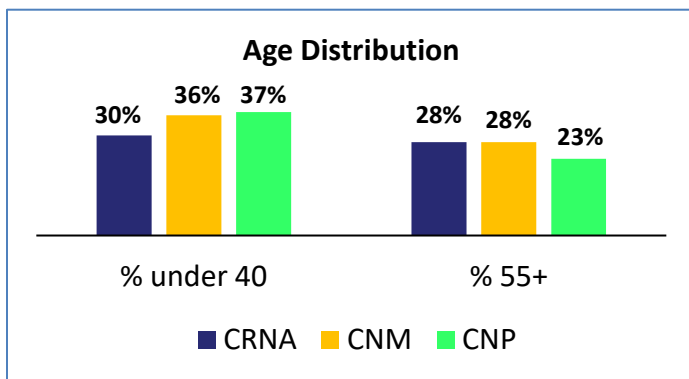
Source: Va. Healthcare Workforce Data Center

CNPs provided 83% of the nurse practitioner FTEs in the state. CRNAs provided 14% whereas CNMs provided 3% of the FTEs. 4% of CNMs in the state's workforce were looking for work compared to 2% or less of the other APRNs.

A Closer Look (All Nurse Practitioners in 2023):

| Age & Gender | | | | | | |
|-----------------|--------------|------------|---------------|------------|---------------|----------------|
| Age | Male | | Female | | Total | |
| | # | % Male | # | % Female | # | % in Age Group |
| Under 30 | 33 | 8% | 381 | 92% | 414 | 3% |
| 30 to 34 | 163 | 9% | 1,766 | 92% | 1,929 | 16% |
| 35 to 39 | 187 | 9% | 1,939 | 91% | 2,125 | 17% |
| 40 to 44 | 216 | 11% | 1,816 | 89% | 2,032 | 16% |
| 45 to 49 | 181 | 13% | 1,269 | 88% | 1,450 | 12% |
| 50 to 54 | 161 | 11% | 1,326 | 89% | 1,486 | 12% |
| 55 to 59 | 107 | 11% | 879 | 89% | 986 | 8% |
| 60 + | 220 | 11% | 1,767 | 89% | 1,987 | 16% |
| Total | 1,269 | 10% | 11,142 | 90% | 12,411 | 100% |

Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

At a Glance:

Gender

- % Female: 90%
- % Under 40 Female: 92%

% Female by Specialty

- CRNA: 71%
- CNM: 100%
- CNP: 93%

% Female <40 by Specialty

- CRNA: 77%
- CNM: 100%
- CNP: 93%

Source: Va. Healthcare Workforce Data Center

CNMs have and CNPs have a median age of 44. The median age of CRNAs is 46.

| Age & Gender by Specialty | | | | | | | | | | | | |
|---------------------------|--------------|------------|--------------|----------------|------------|-------------|------------|----------------|---------------|------------|---------------|----------------|
| Age | CRNA | | | | CNM | | | | CNP | | | |
| | Female | | Total | | Female | | Total | | Female | | Total | |
| | # | % Female | # | % in Age Group | # | % Female | # | % in Age Group | # | % Female | # | % in Age Group |
| Under 30 | 5 | 100% | 5 | 0% | 11 | 100% | 11 | 3% | 361 | 90% | 401 | 4% |
| 30 to 34 | 195 | 78% | 250 | 14% | 44 | 100% | 44 | 12% | 1,545 | 93% | 1,661 | 15% |
| 35 to 39 | 205 | 77% | 269 | 15% | 69 | 100% | 69 | 19% | 1,840 | 95% | 1,947 | 18% |
| 40 to 44 | 228 | 73% | 314 | 17% | 71 | 98% | 73 | 20% | 1,734 | 91% | 1,907 | 17% |
| 45 to 49 | 177 | 69% | 257 | 14% | 34 | 100% | 34 | 9% | 1,213 | 91% | 1,329 | 12% |
| 50 to 54 | 181 | 71% | 256 | 14% | 41 | 100% | 41 | 11% | 1,240 | 92% | 1,342 | 12% |
| 55 to 59 | 117 | 68% | 173 | 9% | 19 | 100% | 19 | 5% | 732 | 93% | 791 | 7% |
| 60 + | 204 | 63% | 322 | 17% | 79 | 100% | 79 | 21% | 1,516 | 93% | 1,631 | 15% |
| Total | 1,313 | 71% | 1,847 | 100% | 369 | 100% | 370 | 100% | 10,181 | 93% | 11,010 | 100% |

Source: Va. Healthcare Workforce Data Center

A Closer Look (All APRNs in 2023):

| Race & Ethnicity (2023) | | | | | |
|-------------------------|-------------|---------------|-------------|----------------|-------------|
| Race/ Ethnicity | Virginia* | APRNs | | APRNs under 40 | |
| | % | # | % | # | % |
| White | 59% | 9,662 | 73% | 3,385 | 73% |
| Black | 18% | 1,866 | 14% | 560 | 12% |
| Asian | 7% | 794 | 6% | 326 | 7% |
| Other Race | 1% | 137 | 1% | 35 | 1% |
| Two or more races | 5% | 297 | 2% | 106 | 2% |
| Hispanic | 10% | 468 | 4% | 209 | 5% |
| Total | 100% | 13,224 | 100% | 4,621 | 100% |

* Population data in this chart is from the US Census, Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States, States, and Counties: July 1, 2022.

Source: Va. Healthcare Workforce Data Center

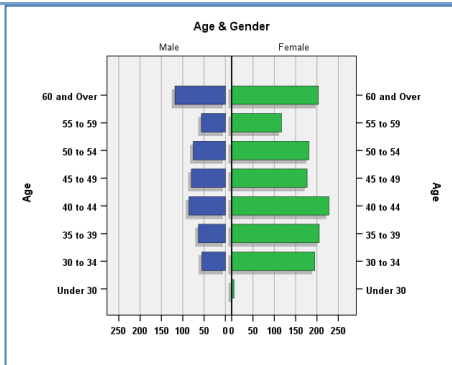
At a Glance:

2023 Diversity
 Diversity Index: 44%
 Under 40 Div. Index: 44%

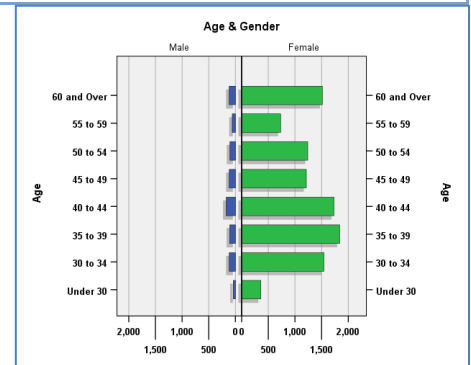
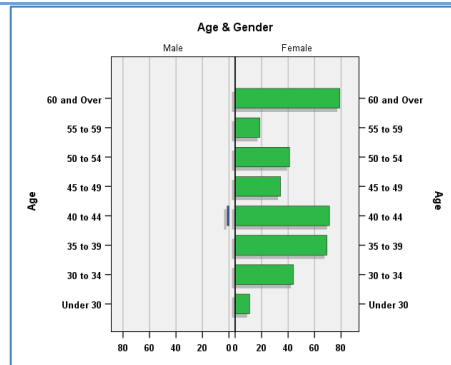
Diversity by Specialty
 CRNA: 41%
 CNM: 36%
 CNP: 45%

Source: Va. Healthcare Workforce Data Center

| Age, Race, Ethnicity & Gender | | | | | | | | | | | | | |
|----------------------------------|--------------|-------------|----------------|-------------|------------|-------------|----------------|-------------|---------------|-------------|----------------|-------------|--|
| Race/ Ethnicity | CRNA | | | | CNM | | | | CNP | | | | |
| | APRNs | | APRNs under 40 | | APRNs | | APRNs under 40 | | APRNs | | APRNs under 40 | | |
| | # | % | # | % | # | % | # | % | # | % | # | % | |
| White | 1,393 | 76% | 380 | 73% | 290 | 79% | 104 | 81% | 7,979 | 72% | 2,902 | 73% | |
| Black | 162 | 9% | 44 | 8% | 46 | 13% | 18 | 14% | 1,658 | 15% | 498 | 13% | |
| Asian | 119 | 6% | 40 | 8% | 1 | 0% | 0 | 0% | 674 | 6% | 286 | 7% | |
| Other Race | 19 | 1% | 2 | 0% | 4 | 1% | 0 | 0% | 115 | 1% | 33 | 1% | |
| Two or more races | 63 | 3% | 24 | 5% | 8 | 2% | 2 | 2% | 225 | 2% | 80 | 2% | |
| Hispanic | 89 | 5% | 31 | 6% | 19 | 5% | 5 | 4% | 360 | 3% | 174 | 4% | |
| Total | 1,845 | 100% | 521 | 100% | 368 | 100% | 129 | 100% | 11,011 | 100% | 3,973 | 100% | |



Source: Va. Healthcare Workforce Data Center



A Closer Look:

At a Glance:

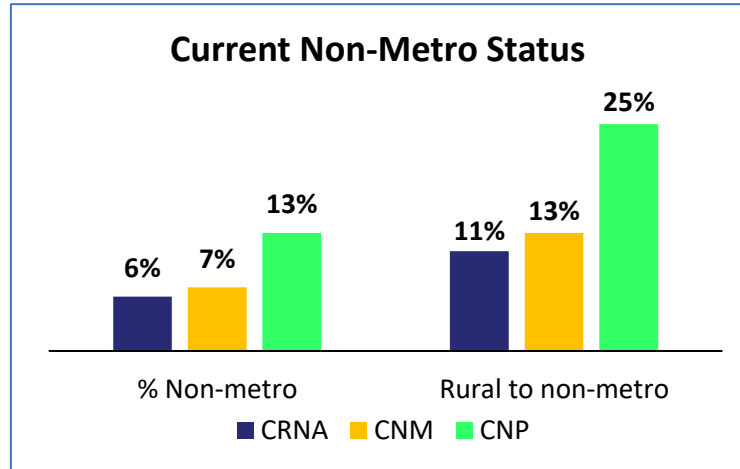
Rural Childhood

| | |
|-------|-----|
| CRNA: | 28% |
| CNM: | 27% |
| CNP: | 36% |
| All: | 34% |

Non-Metro Location

| | |
|-------|-----|
| CRNA: | 6% |
| CNM: | 7% |
| CNP: | 13% |
| All: | 11% |

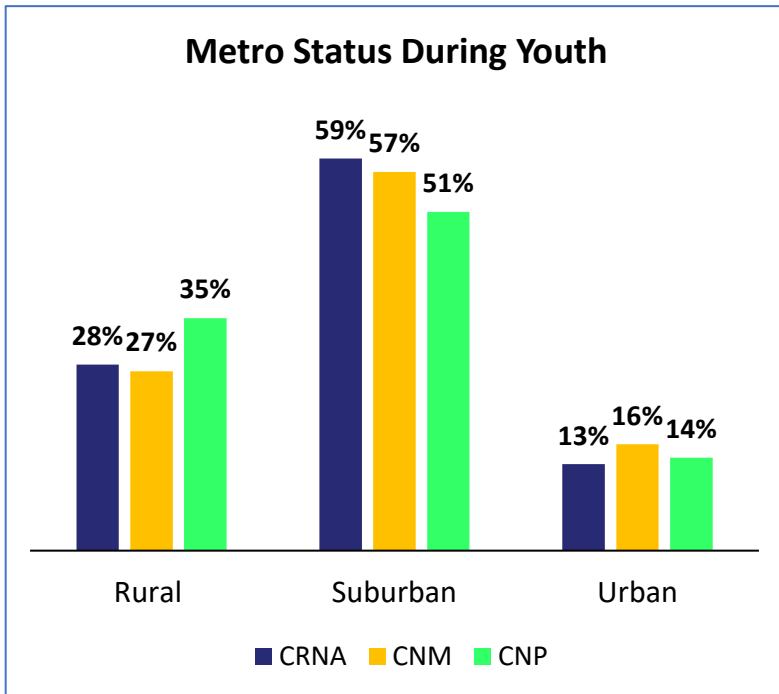
Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

| | HS in VA | Prof. Ed. in VA | HS or Prof in VA | APRN Degree in VA |
|-------------------|------------|-----------------|------------------|-------------------|
| CRNA | 29% | 30% | 35% | 36% |
| CNM | 31% | 32% | 39% | 24% |
| CNP | 47% | 54% | 59% | 53% |
| All (2022) | 43% | 50% | 55% | 49% |

Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

CNPs were most likely to have been educated in the state. CNMs were least likely to have obtained their APRN education in the state. Also, CNPs had the highest percent reporting a non-metro work location.

Education

A Closer Look:

At a Glance:

Median Educational Debt

| | |
|-------|--------------|
| CRNA: | \$80k-\$90k |
| CNM: | \$90k-\$100k |
| CNP: | \$60k-\$70k |

Source: Va. Healthcare Workforce Data Center

CNPs were most likely to carry education debt; 53% of all CNPs and 63% of CNPs under age 40 had education debt. However, CNPs had the lowest median education debt. CNMs had the highest median debt at \$90k-\$100K. Additionally, 50% of all CNMs, and 66% of CNMs under 40 reported education debt.

| Degree | Highest Degree | | | | | | | |
|--------------------|----------------|-------------|------------|-------------|---------------|-------------|---------------|-------------|
| | CRNA | | CNM | | CNP | | All (2023) | |
| | # | % | # | % | # | % | # | % |
| NP Certificate | 111 | 6% | 13 | 4% | 112 | 1% | 236 | 2% |
| Master's Degree | 1,187 | 66% | 275 | 74% | 8,388 | 78% | 9,850 | 76% |
| Post-Masters Cert. | 18 | 1% | 34 | 9% | 907 | 8% | 960 | 7% |
| Doctorate of NP | 351 | 19% | 38 | 10% | 1,094 | 10% | 1,484 | 11% |
| Other Doctorate | 134 | 7% | 10 | 3% | 296 | 3% | 441 | 3% |
| Post-Ph.D. Cert. | 0 | 0% | 0 | 0% | 3 | 0% | 3 | 0% |
| Total | 1,801 | 100% | 370 | 100% | 10,800 | 100% | 12,974 | 100% |

Source: Va. Healthcare Workforce Data Center

| Amount Carried | Educational Debt | | | | | | | |
|---------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | CRNA | | CNM | | CNP | | All (2023) | |
| | All | Under 40 | All | Under 40 | All | Under 40 | All | Under 40 |
| None | 60% | 35% | 50% | 34% | 47% | 37% | 49% | 36% |
| \$20,000 or less | 6% | 4% | 4% | 3% | 7% | 8% | 7% | 7% |
| \$20,000-\$29,999 | 2% | 2% | <1% | 0% | 4% | 5% | 4% | 5% |
| \$30,000-\$39,999 | 2% | 3% | 3% | 3% | 4% | 5% | 4% | 5% |
| \$40,000-\$49,999 | 3% | 5% | 3% | 4% | 4% | 6% | 4% | 5% |
| \$50,000-\$59,999 | 2% | 1% | 2% | 4% | 4% | 5% | 4% | 5% |
| \$60,000-\$69,999 | 2% | 4% | 2% | 1% | 4% | 6% | 4% | 6% |
| \$70,000-\$79,999 | 2% | 4% | 3% | 6% | 4% | 5% | 4% | 5% |
| \$80,000-\$89,999 | 3% | 5% | 3% | 3% | 4% | 4% | 3% | 4% |
| \$90,000-\$99,999 | 1% | 2% | 3% | 3% | 3% | 4% | 3% | 3% |
| \$100,000-\$109,999 | 2% | 3% | 4% | 4% | 3% | 3% | 3% | 4% |
| \$110,000-\$119,999 | 1% | 2% | 4% | 11% | 2% | 3% | 2% | 3% |
| \$120,000 or more | 14% | 29% | 4% | 3% | 10% | 8% | 10% | 11% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

At a Glance:

Employed in Profession

| | |
|-------|-----|
| CRNA: | 98% |
| CNM: | 91% |
| CNP: | 96% |

Involuntary Unemployment

| | |
|-------|----|
| CRNA: | 0% |
| CNM: | 1% |
| CNP: | 0% |

Source: Va. Healthcare Workforce Data Center

A Closer Look:

| Hours | Current Weekly Hours | | | |
|-------------------------|----------------------|-------------|-------------|-------------|
| | CRNA | CNM | CNP | All (2023) |
| 0 hours | 1% | 7% | 3% | 3% |
| 1 to 9 hours | 1% | 2% | 1% | 1% |
| 10 to 19 hours | 3% | 5% | 3% | 3% |
| 20 to 29 hours | 8% | 4% | 7% | 7% |
| 30 to 39 hours | 24% | 15% | 20% | 20% |
| 40 to 49 hours | 53% | 37% | 49% | 49% |
| 50 to 59 hours | 7% | 14% | 11% | 11% |
| 60 to 69 hours | 2% | 11% | 4% | 4% |
| 70 to 79 hours | <1% | 3% | 1% | 1% |
| 80 or more hours | <1% | 3% | 2% | 2% |
| Total | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

Over half of CRNAs work 40-49 hours and approximately 10% work more than 50 hours whereas about 37% of CNMs work 40-49 hours and 31% work more than 50 hours. Close to half of CNPs work 40-49 hours and 18% work more than 50 hours.

Current Positions

| Positions | CRNA | | CNM | | CNP | | All (2023) | |
|--|--------------|-------------|-----------|------------|---------------|-------------|---------------|-------------|
| | # | % | # | % | # | % | # | % |
| No Positions | 19 | 1% | 25 | 7% | 289 | 3% | 333 | 3% |
| One Part-Time Position | 254 | 14% | 6 | 2% | 1,383 | 13% | 1,679 | 13% |
| Two Part-Time Positions | 101 | 6% | 17 | 5% | 429 | 4% | 550 | 4% |
| One Full-Time Position | 1,056 | 59% | 14 | 4% | 6,925 | 65% | 8,203 | 64% |
| One Full-Time Position & One Part-Time Position | 244 | 14% | 54 | 15% | 1,293 | 12% | 1,578 | 12% |
| Two Full-Time Positions | 10 | 1% | 132 | 37% | 43 | 0% | 53 | <1% |
| More than Two Positions | 117 | 6% | 49 | 14% | 211 | 2% | 338 | 3% |
| Total | 1,801 | 100% | 41 | 11% | 10,573 | 100% | 12,734 | 100% |

Source: Va. Healthcare Workforce Data Center

A Closer Look:

| Benefit | Employer-Sponsored Benefits* | | | |
|-------------------------------------|------------------------------|------------|------------|------------|
| | CRNA | CNM | CNP | All (2023) |
| Signing/Retention Bonus | 30% | 20% | 15% | 17% |
| Dental Insurance | 50% | 59% | 58% | 57% |
| Health Insurance | 51% | 61% | 60% | 59% |
| Paid Leave | 53% | 70% | 68% | 66% |
| Group Life Insurance | 45% | 47% | 46% | 46% |
| Retirement | 62% | 72% | 67% | 66% |
| Receive at least one benefit | 68% | 81% | 80% | 78% |

*Wage and salaried employees receiving from any employer at time of survey.

Source: Va. Healthcare Workforce Data Center

At a Glance:

Median Income

CRNA: \$120k or more
 CNM: \$100k-\$110k
 CNP: \$90k-\$100K
 All (2022): \$120k or More

Percent Satisfied

CRNA: 97%
 CNM: 89%
 CNP: 93%

Source: Va. Healthcare Workforce Data Center

CRNAs reported \$120k or more in median income. All other NPs, including CNMs, reported \$90k-\$110k in median income. CNMs were the least satisfied with their current employment situation whereas CRNAs were the most satisfied. Approximately 1% of CRNAs, CNMs, and CNPs reported being very dissatisfied.

| Annual Income | Income | | | |
|----------------------------|-------------|-------------|-------------|-------------|
| | CRNA | CNM | CNP | All (2023) |
| Volunteer Work Only | 0% | 1% | 1% | 1% |
| Less than \$40,000 | 1% | 6% | 4% | 4% |
| \$40,000-\$49,999 | 0% | 2% | 2% | 2% |
| \$50,000-\$59,999 | 1% | 5% | 2% | 2% |
| \$60,000-\$69,999 | 0% | 1% | 3% | 3% |
| \$70,000-\$79,999 | 1% | 3% | 5% | 4% |
| \$80,000-\$89,999 | 2% | 8% | 7% | 6% |
| \$90,000-\$99,999 | 2% | 10% | 10% | 9% |
| \$100,000-\$109,999 | 3% | 16% | 17% | 15% |
| \$110,000-\$119,999 | 2% | 11% | 15% | 13% |
| \$120,000 or more | 87% | 38% | 34% | 41% |
| Total | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

Labor Market

A Closer Look:

| Employment Instability in Past Year | | | | |
|---|------------|------------|------------|------------|
| In the past year did you . . . ? | CRNA | CNM | CNP | All (2023) |
| Experience Involuntary Unemployment? | 1% | 1% | 1% | 1% |
| Experience Voluntary Unemployment? | 3% | 11% | 5% | 5% |
| Work Part-time or temporary positions, but would have preferred a full-time/permanent position? | 1% | 4% | 3% | 3% |
| Work two or more positions at the same time? | 23% | 20% | 18% | 19% |
| Switch employers or practices? | 6% | 10% | 10% | 9% |
| Experienced at least 1 | 30% | 35% | 30% | 30% |

Source: Va. Healthcare Workforce Data Center

At a Glance:

Involuntarily Unemployed

| | |
|-------|----|
| CRNA: | 1% |
| CNM: | 1% |
| CNP: | 1% |

Underemployed

| | |
|-------|-----|
| CRNA: | 3% |
| CNM: | 11% |
| CNP: | 5% |

Over 2 Years Job Tenure

| | |
|-------|-----|
| CRNA: | 64% |
| CNM: | 46% |
| CNP: | 53% |

Source: Va. Healthcare Workforce Data Center

| Tenure | Job Tenure at Location | | | | | |
|---|------------------------|-------------|-------------|-------------|-------------|-------------|
| | CRNA | | CNM | | CNP | |
| | Primary | Secondary | Primary | Secondary | Primary | Secondary |
| Not Currently Working at this Location | 2% | 5% | 5% | 6% | 2% | 6% |
| < 6 Months | 6% | 11% | 8% | 15% | 11% | 16% |
| 6 Months-1 yr | 9% | 11% | 14% | 11% | 13% | 15% |
| 1 to 2 Years | 23% | 20% | 27% | 30% | 23% | 22% |
| 3 to 5 Years | 22% | 24% | 21% | 20% | 24% | 22% |
| 6 to 10 Years | 15% | 15% | 14% | 10% | 14% | 10% |
| > 10 Years | 23% | 14% | 11% | 9% | 14% | 8% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

80% of CNMs were be paid by salary or commission, as compared to 49% of CRNAs and 68% of CNPs. This makes CNMs the most likely to be paid in this way.

| Primary Work Site | Forms of Payment | | | |
|---------------------------|------------------|-------------|-------------|-------------|
| | CRNA | CNM | CNP | All (2023) |
| Salary/ Commission | 49% | 80% | 68% | 66% |
| Hourly Wage | 36% | 16% | 25% | 27% |
| By Contract | 14% | 3% | 6% | 7% |
| Unpaid | <1% | 1% | 1% | <1% |
| Total | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

A Closer Look

At a Glance:

% in Top 3 Regions

CRNA: 77%
 CNM: 68%
 CNP: 68%

2 or More Locations Now

CRNA: 32%
 CNM: 23%
 CNP: 24%

Source: Va. Healthcare Workforce Data Center

For primary work locations, Northern Virginia has the highest proportion of CNMs whereas CRNAs and CNPs were most concentrated in both the Central and Northern Virginia regions.

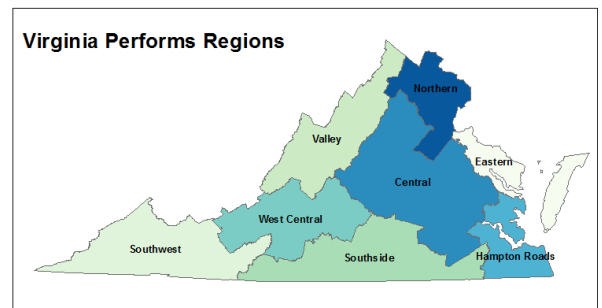
| Regional Distribution of Work Locations | | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Virginia Performs Region | CRNA | | CNM | | CNP | |
| | Primary | Secondary | Primary | Secondary | Primary | Secondary |
| Central | 26% | 17% | 18% | 31% | 25% | 17% |
| Eastern | 1% | 0% | 1% | 1% | 2% | 1% |
| Hampton Roads | 24% | 26% | 17% | 19% | 17% | 17% |
| Northern | 27% | 30% | 33% | 14% | 27% | 24% |
| Southside | 2% | 2% | 4% | 1% | 4% | 3% |
| Southwest | 2% | 3% | 1% | 1% | 7% | 7% |
| Valley | 4% | 3% | 10% | 16% | 6% | 5% |
| West Central | 9% | 6% | 11% | 10% | 10% | 9% |
| Virginia Border State/DC | 1% | 2% | 2% | 1% | 1% | 4% |
| Other US State | 3% | 9% | 4% | 7% | 2% | 12% |
| Outside of the US | 0% | 0% | 0% | 0% | 0% | 0% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

| Locations | Number of Work Locations Now* | | | | | |
|--------------|-------------------------------|-------------|------------|-------------|---------------|-------------|
| | CRNA | | CNM | | CNP | |
| | # | % | # | % | # | % |
| 0 | 27 | 2% | 2 | 8% | 383 | 4% |
| 1 | 1,180 | 66% | 356 | 66% | 7,596 | 72% |
| 2 | 306 | 17% | 29 | 17% | 1,687 | 16% |
| 3 | 194 | 11% | 235 | 6% | 692 | 7% |
| 4 | 41 | 2% | 60 | 2% | 66 | 1% |
| 5 | 18 | 1% | 23 | 0% | 39 | 0% |
| 6 + | 16 | 1% | 7 | 1% | 66 | 1% |
| Total | 1,782 | 100% | 356 | 100% | 10,529 | 100% |

Source: Va. Healthcare Workforce Data Center

*At survey completion (birth month of respondents)



A Closer Look:

| Sector | Location Sector | | | | | | | |
|---------------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | CRNA | | CNM | | CNP | | All (2023) | |
| | Primary | Sec | Primary | Sec | Primary | Sec | Primary | Sec |
| For-Profit | 54% | 68% | 55% | 50% | 54% | 63% | 54% | 63% |
| Non-Profit | 38% | 28% | 32% | 40% | 33% | 27% | 34% | 27% |
| State/Local Government | 4% | 2% | 7% | 7% | 8% | 7% | 7% | 6% |
| Veterans Administration | 2% | 1% | 0% | 0% | 3% | 1% | 2% | 1% |
| U.S. Military | 3% | 2% | 3% | 3% | 2% | 1% | 2% | 1% |
| Other Federal Government | <1% | 0% | 2% | 0% | 1% | 1% | 1% | 1% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

CRNAs had the highest participation in the private sector, 92% of them worked in the sector compared to 87% of CNMs and CNPs. Meanwhile, CRNAs had the lowest percent working in state, local or federal government.

**At a Glance:
(Primary Locations)**

For-Profit Primary Sector

CRNA: 54%
CNM: 55%
CNP: 54%

Top Establishments

CRNA: Inpatient Department
CNM: Inpatient Department
CNP: Clinic, Primary Care

Source: Va. Healthcare Workforce Data Center

| Electronic Health Records (EHRs) and Telehealth | | | | |
|---|------------|------------|------------|------------|
| | CRNA | CNM | CNP | All (2023) |
| Meaningful use of EHRs | 12% | 30% | 31% | 28% |
| Remote Health, Caring for Patients in Virginia | 1% | 22% | 29% | 25% |
| Remote Health, Caring for Patients Outside of Virginia | <1% | 7% | 7% | 6% |
| Use at least one | 13% | 42% | 45% | 40% |

Source: Va. Healthcare Workforce Data Center

More than a quarter of the state APRN workforce used at least one EHR. 25% also provided remote health care for Virginia patients. CNPs were most likely to report using at least one EHR or telehealth whereas CRNAs were least likely to report doing so, likely because of the

| Establishment Type | Location Type | | | | | | | |
|---|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | CRNA | | CNM | | CNP | | All (2023) | |
| | Primary | Sec | Primary | Sec | Primary | Sec | Primary | Sec |
| Clinic, Primary Care or Non-Specialty | 1% | 3% | 13% | 23% | 23% | 16% | 19% | 14% |
| Hospital, Inpatient Department | 39% | 29% | 19% | 23% | 14% | 13% | 18% | 16% |
| Physician Office | 1% | 3% | 6% | 2% | 8% | 4% | 7% | 4% |
| Academic Institution (Teaching or Research) | 11% | 6% | 9% | 5% | 6% | 8% | 7% | 7% |
| Private practice, group | 2% | 3% | 17% | 11% | 7% | 5% | 6% | 5% |
| Hospital, Outpatient Department | 14% | 11% | 4% | 0% | 6% | 3% | 7% | 4% |
| Clinic, Non-Surgical Specialty | 1% | 1% | 5% | 1% | 5% | 5% | 4% | 4% |
| Ambulatory/Outpatient Surgical Unit | 19% | 33% | 3% | 5% | 1% | 1% | 4% | 6% |
| Long Term Care Facility, Nursing Home | 0% | 0% | 0% | 0% | 4% | 5% | 3% | 4% |
| Hospital, Emergency Department | 3% | 2% | 1% | 2% | 3% | 4% | 3% | 4% |
| Mental Health, or Substance Abuse, Outpatient Center | 0% | 0% | 0% | 0% | 5% | 6% | 4% | 5% |
| Private practice, solo | 0% | 1% | 3% | 6% | 2% | 3% | 2% | 3% |
| Hospice | 0% | 0% | 0% | 0% | 1% | 3% | 1% | 3% |
| Other Practice Setting | 9% | 8% | 18% | 21% | 15% | 24% | 14% | 21% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

The inpatient department of a hospital was the most mentioned primary work establishment for CRNAs and CNMs. For CNPs, primary care clinic was the most mentioned primary work establishment, followed by the inpatient department.

At a Glance: (Primary Locations)

Patient Care Role

| | |
|-------|-----|
| CRNA: | 95% |
| CNM: | 80% |
| CNP: | 87% |

Education Role

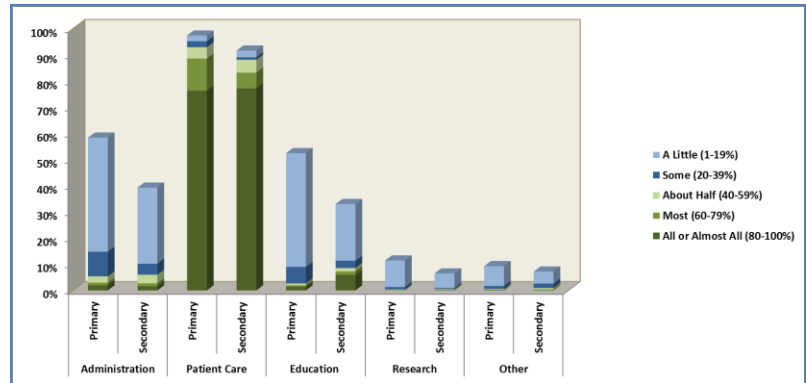
| | |
|-------|-----|
| CRNA: | <1% |
| CNM: | 3% |
| CNP: | 2% |

Admin Role

| | |
|-------|----|
| CRNA: | 2% |
| CNM: | 4% |
| CNP: | 3% |

Source: Va. Healthcare Workforce Data Center

A Closer Look:



Source: Va. Healthcare Workforce Data Center

On average, 87% of all APNs fill a patient care role, defined as spending 60% or more of their time on patient care activities. CRNAs were most likely to fill a patient care role; 95% of CRNAs filled such role compared to 80% of CNMs and 87% CNPs.

| Time Spent | Patient Care Time Allocation | | | | | | | |
|------------------------------------|------------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| | CRNA | | CNM | | CNP | | All (2023) | |
| | Prim. Site | Sec. Site | Prim. Site | Sec. Site | Prim. Site | Sec. Site | Prim. Site | Sec. Site |
| All or Almost All (80-100%) | 89% | 93% | 62% | 79% | 71% | 72% | 74% | 76% |
| Most (60-79%) | 6% | 2% | 19% | 7% | 15% | 9% | 14% | 8% |
| About Half (40-59%) | 2% | 1% | 10% | 3% | 5% | 5% | 5% | 4% |
| Some (20-39%) | 1% | 0% | 5% | 2% | 3% | 2% | 3% | 2% |
| A Little (1-20%) | 1% | 1% | 2% | 2% | 3% | 3% | 2% | 3% |
| None (0%) | 2% | 1% | 3% | 5% | 3% | 8% | 3% | 7% |

Source: Va. Healthcare Workforce Data Center

A Closer Look:

| | Future Plans | | | | | |
|--------------------------------|--------------|-----|-----|-----|-------|-----|
| | CRNA | | CNM | | CNP | |
| 2 Year Plans: | # | % | # | % | # | % |
| Decrease Participation | | | | | | |
| Leave Profession | 19 | 1% | 13 | 3% | 119 | 1% |
| Leave Virginia | 56 | 3% | 12 | 3% | 298 | 2% |
| Decrease Patient Care Hours | 249 | 11% | 61 | 14% | 1,262 | 10% |
| Decrease Teaching Hours | 6 | 0% | 1 | 0% | 106 | 1% |
| Increase Participation | | | | | | |
| Increase Patient Care Hours | 112 | 5% | 47 | 11% | 1,461 | 11% |
| Increase Teaching Hours | 99 | 5% | 56 | 13% | 1,440 | 11% |
| Pursue Additional Education | 77 | 4% | 52 | 12% | 1,660 | 13% |
| Return to Virginia's Workforce | 4 | 0% | 8 | 2% | 91 | 1% |

Source: Va. Healthcare Workforce Data Center

At a Glance:

Retirement within 2 Years

| | |
|-------|----|
| CRNA: | 8% |
| CNM: | 8% |
| CNP: | 5% |

Retirement within 10 Years

| | |
|-------|-----|
| CRNA: | 26% |
| CNM: | 21% |
| CNP: | 18% |

Source: Va. Healthcare Workforce Data Center

50%, 36% and 40% of CRNAs, CNMs, and CNPs, respectively, expect to retire by the age of 65. Further, 35%, 24%, and 24% of CRNAs, CNMs, and CNPs, respectively, aged 50 or over expect to retire by the same age. Meanwhile, 3%, 4%, and 6% of CRNAs, CNMs, and CNPs, respectively, do not plan to retire at all.

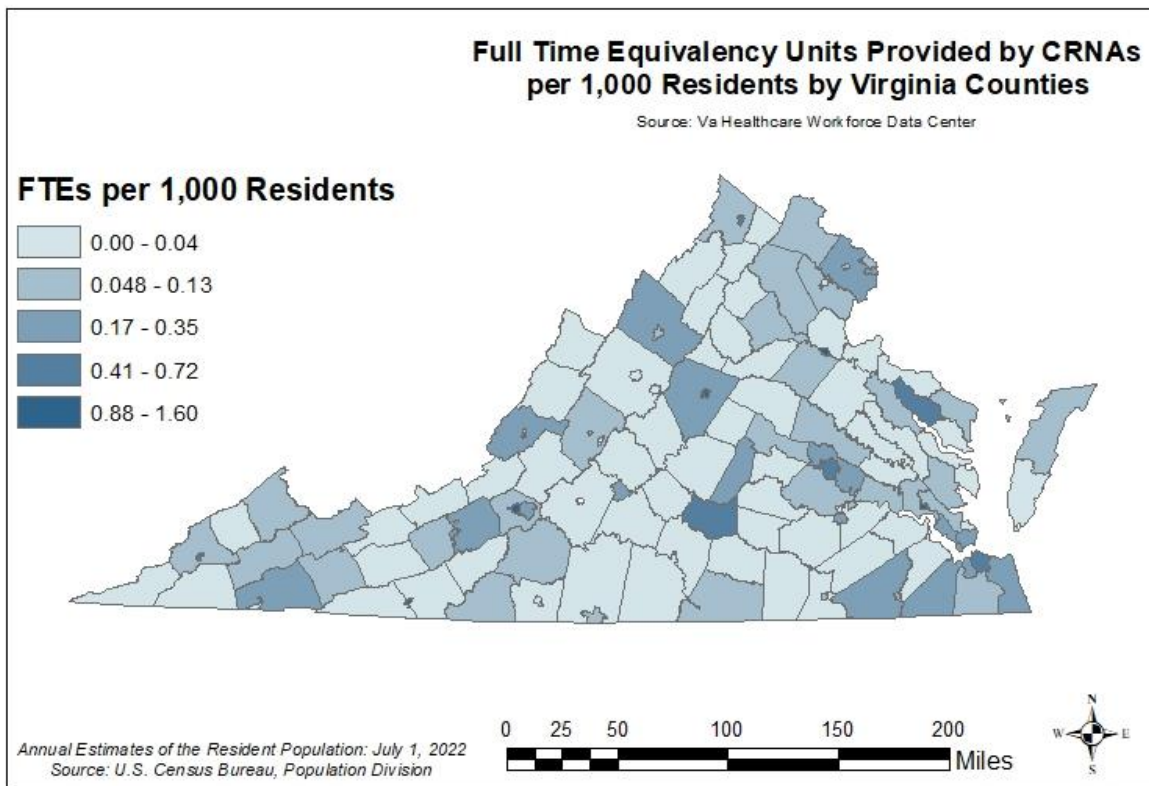
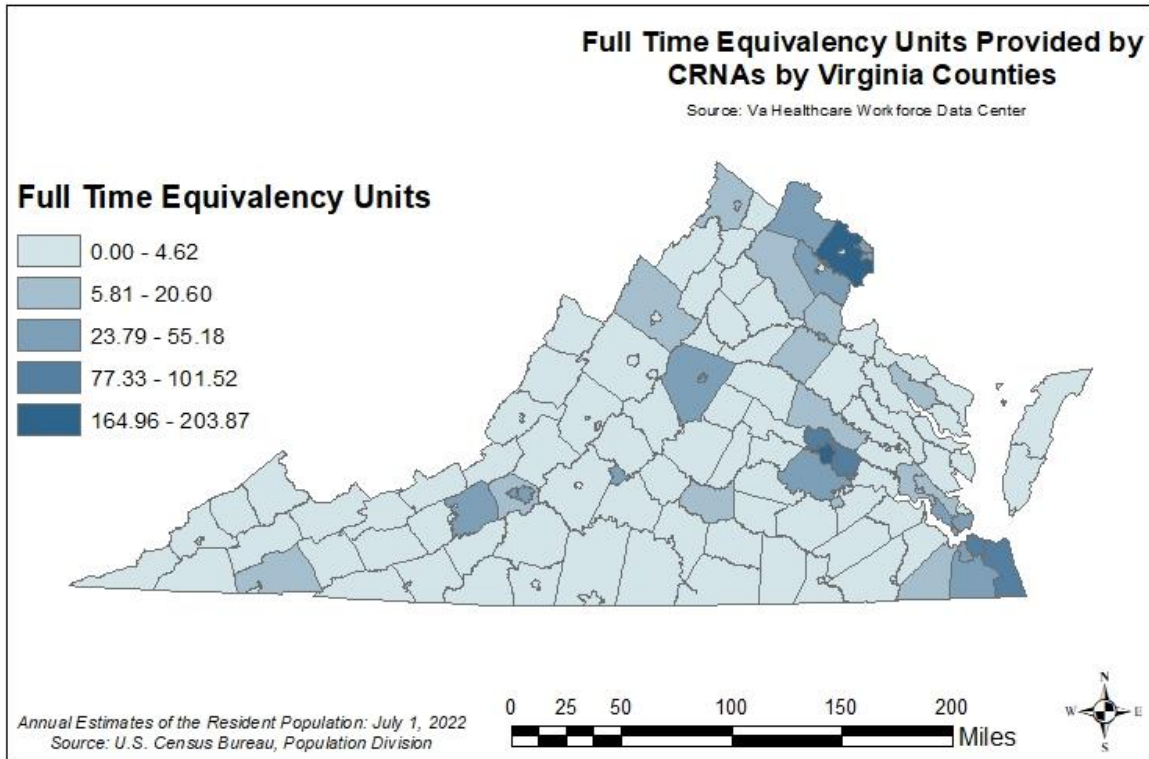
| Expected Retirement Age | CRNA | | CNM | | CNP | | All (2023) | |
|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | All | >50 yrs | All | >50 yrs | All | >50 yrs | All | >50 yrs |
| Under age 50 | 1% | - | 5% | - | 2% | - | 2% | - |
| 50 to 54 | 4% | 1% | 4% | 0% | 4% | 0% | 4% | 1% |
| 55 to 59 | 12% | 6% | 7% | 6% | 9% | 4% | 9% | 4% |
| 60 to 64 | 33% | 28% | 20% | 18% | 25% | 20% | 26% | 21% |
| 65 to 69 | 34% | 40% | 36% | 39% | 37% | 40% | 36% | 40% |
| 70 to 74 | 10% | 16% | 16% | 24% | 13% | 19% | 12% | 19% |
| 75 to 79 | 3% | 5% | 5% | 12% | 4% | 7% | 4% | 6% |
| 80 or over | 0% | 0% | 2% | 0% | 1% | 2% | 1% | 1% |
| I do not intend to retire | 3% | 4% | 4% | 1% | 6% | 8% | 6% | 7% |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Source: Va. Healthcare Workforce Data Center

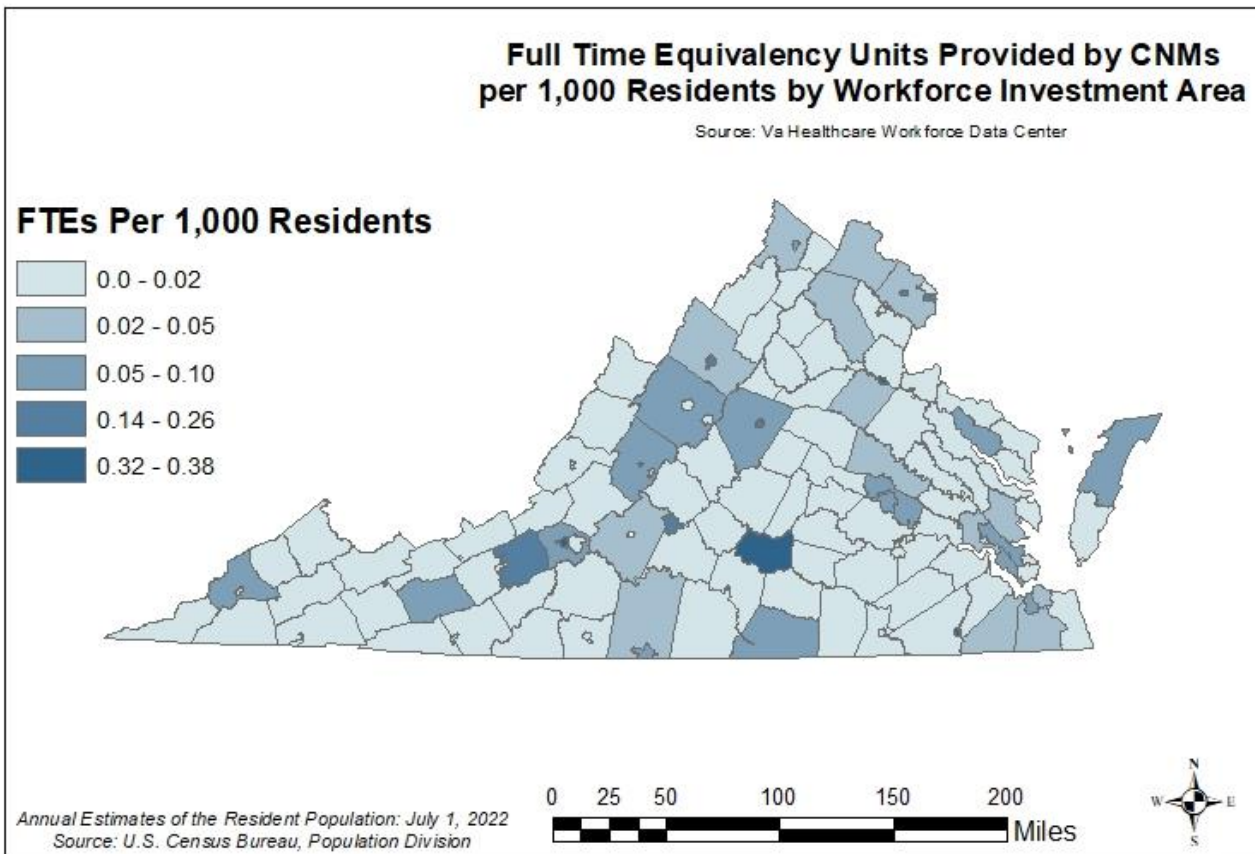
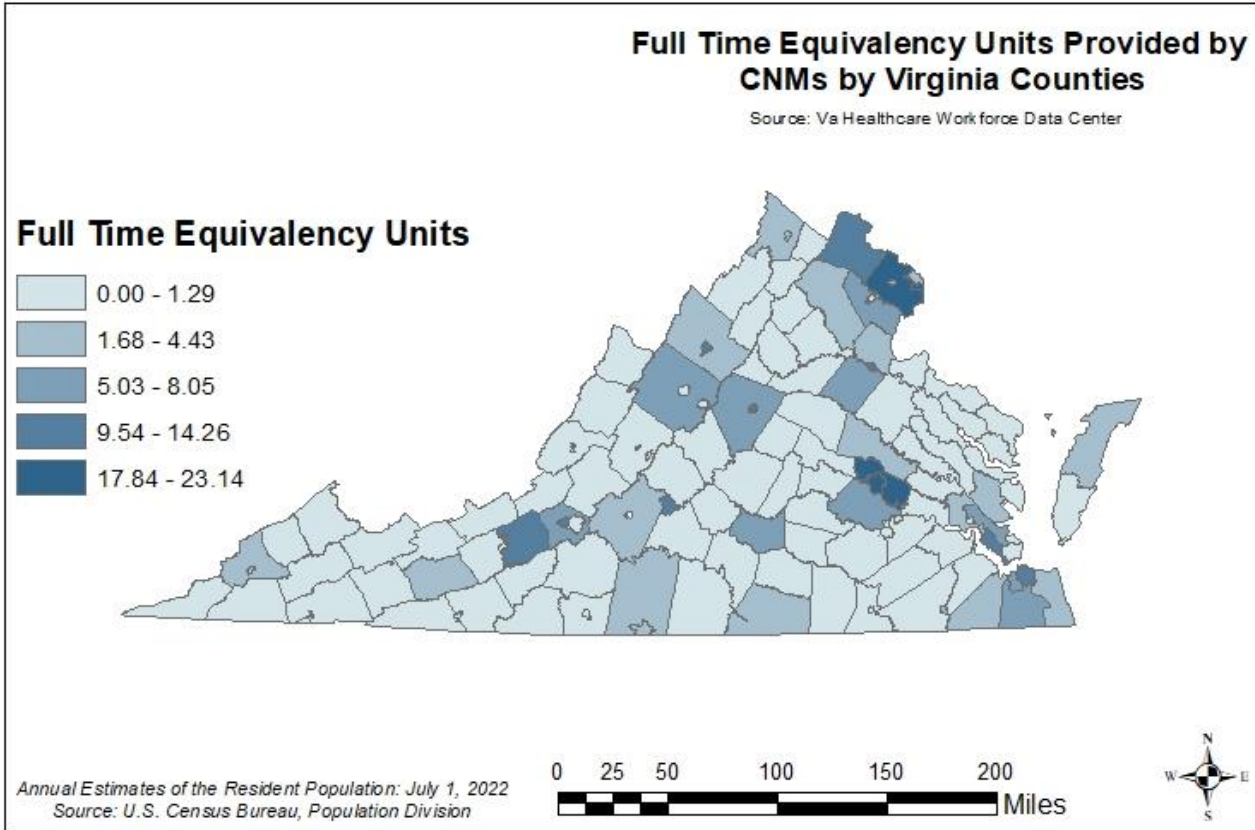
| Expect to retire within. . . | Time to Retirement | | | | | | | |
|--------------------------------|--------------------|-------------|------------|-------------|--------------|-------------|---------------|-------------|
| | CRNA | | CNM | | CNP | | All (2023) | |
| | # | % | # | % | # | % | # | % |
| 2 years | 130 | 8% | 25 | 8% | 431 | 5% | 586 | 5% |
| 5 years | 56 | 4% | 13 | 4% | 299 | 3% | 369 | 3% |
| 10 years | 220 | 14% | 29 | 9% | 894 | 10% | 1,144 | 10% |
| 15 years | 201 | 13% | 37 | 12% | 1,079 | 12% | 1,316 | 12% |
| 20 years | 234 | 15% | 41 | 13% | 1,076 | 12% | 1,352 | 12% |
| 25 years | 261 | 16% | 35 | 11% | 1,395 | 15% | 1,691 | 15% |
| 30 years | 203 | 13% | 47 | 15% | 1,354 | 15% | 1,604 | 14% |
| 35 years | 184 | 12% | 50 | 16% | 1,172 | 13% | 1,405 | 13% |
| 40 years | 53 | 3% | 7 | 2% | 575 | 6% | 635 | 6% |
| 45 years | 6 | 0% | 9 | 3% | 207 | 2% | 221 | 2% |
| 50 years | 0 | 0% | 2 | 1% | 66 | 1% | 67 | 1% |
| 55 years | 0 | 0% | 0 | 0% | 9 | 0% | 9 | 0% |
| In more than 55 years | 0 | 0% | 6 | 2% | 14 | 0% | 20 | 0% |
| Do not intend to retire | 40 | 3% | 14 | 4% | 593 | 6% | 647 | 6% |
| Total | 1,588 | 100% | 316 | 100% | 9,162 | 100% | 11,066 | 100% |

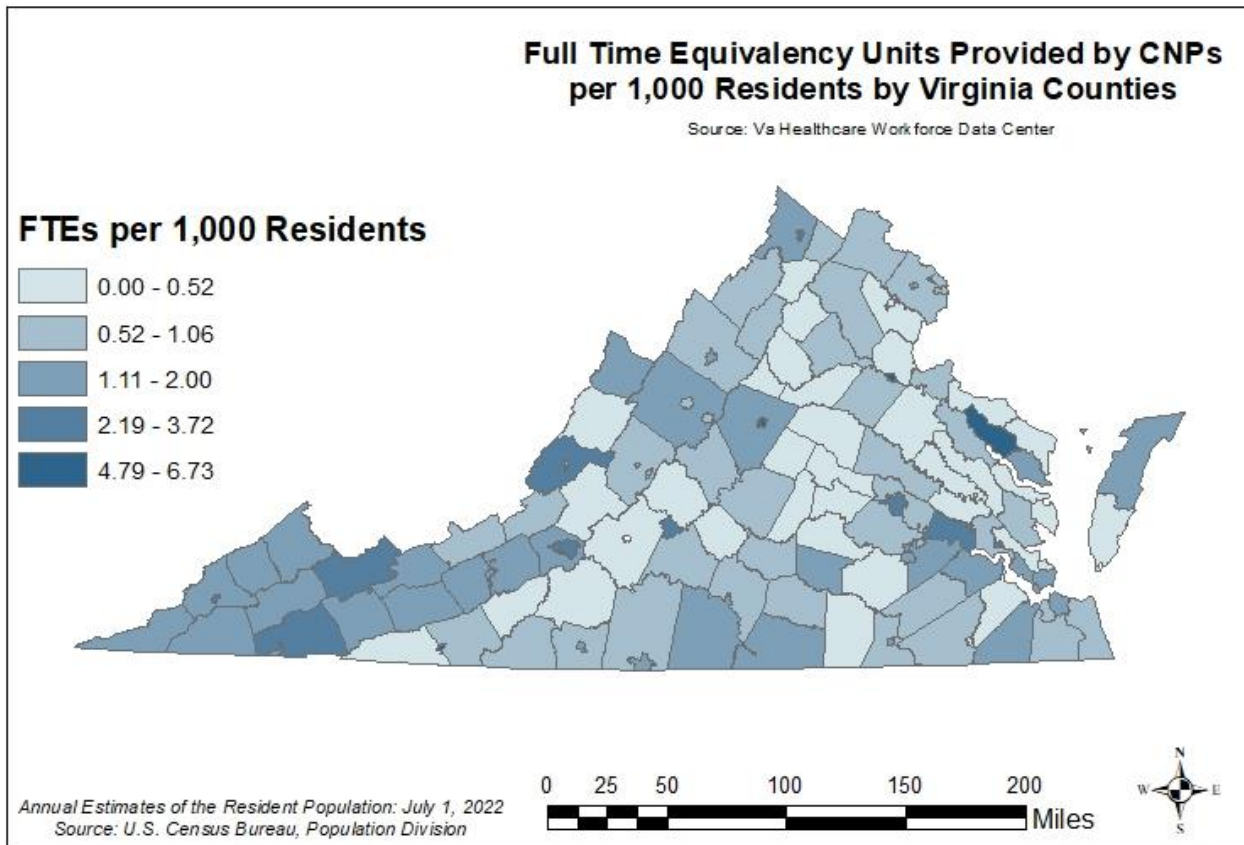
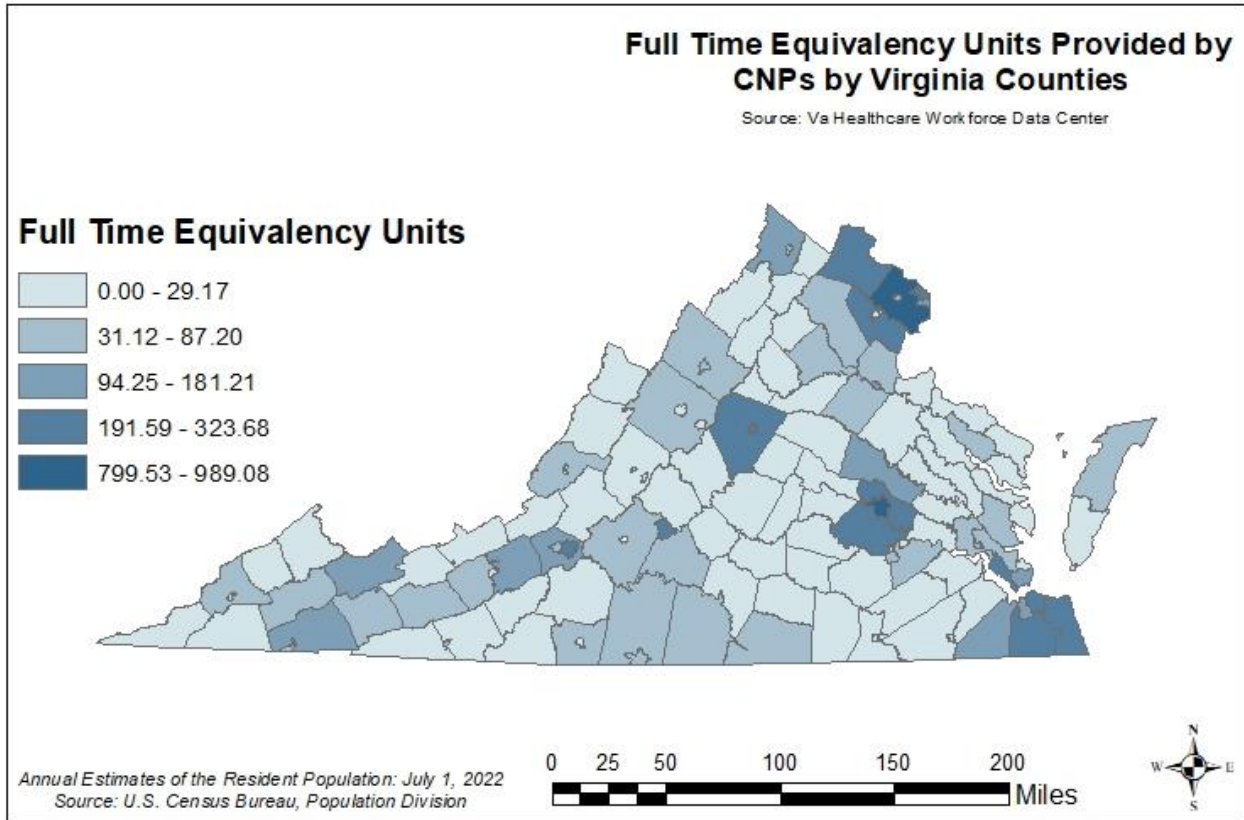
Source: Va. Healthcare Workforce Data Center

Using these estimates, retirement will begin to reach over 10% of the current workforce every 5 years by 2033. Retirement will peak at 15% of the current workforce around 2048 before declining to under 10% of the current workforce again around 2063.



Note: Maps show reported work hours in primary and secondary locations of respondents who provided a response to the relevant question. Map may not reflect hours worked by all nurse practitioners licensed in the state since response rate was less than 100%.





DRAFT

Virginia's Licensed Advanced Practice Registered Nurse Workforce: 2023

Healthcare Workforce Data Center

November 2023

Virginia Department of Health Professions
Healthcare Workforce Data Center
Perimeter Center
9960 Mayland Drive, Suite 300
Henrico, VA 23233
804-597-4213, 804-527-4466(fax)
E-mail: HWDC@dhp.virginia.gov

Follow us on Tumblr: www.vahwdc.tumblr.com

Get a copy of this report from:

<http://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/ProfessionReports/>

7,102 Licensed Advanced Practice Registered Nurses voluntarily participated in this survey. Without their efforts the work of the center would not be possible. The Department of Health Professions, the Healthcare Workforce Data Center, and the Board of Nursing express our sincerest appreciation for their ongoing cooperation.

Thank You!

Virginia Department of Health Professions

Arne E. Owens, MS

Director

James L. Jenkins, Jr., RN

Chief Deputy Director

Healthcare Workforce Data Center Staff:

Yetty Shobo, PhD
Director

Barbara Hodgdon, PhD
Deputy Director

Rajana Siva, MBA
Data Analyst

Christopher Coyle, BA
Research Assistant

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The Licensed Advanced Practice Registered Nurse Workforce: At a Glance:

The Workforce

| | |
|-----------------------|--------|
| Licenses: | 20,485 |
| Virginia's Workforce: | 14,837 |
| FTEs: | 12,313 |

Survey Response Rate

| | |
|-------------------------|-----|
| All Licensees: | 35% |
| Renewing Practitioners: | 91% |

Demographics

| | |
|------------------|-----|
| Female: | 90% |
| Diversity Index: | 45% |
| Median Age: | 44 |

Background

| | |
|---------------------|-----|
| Rural Childhood: | 34% |
| HS Degree in VA: | 44% |
| Prof. Degree in VA: | 50% |

Education

| | |
|---------------------|-----|
| Master's Degree: | 76% |
| Post-Masters Cert.: | 7% |

Finances

| | |
|----------------------|---------------|
| Median Income: | \$110k-\$120k |
| Health Benefits: | 61% |
| Under 40 w/ Ed debt: | 64% |

Current Employment

| | |
|-----------------------|-----|
| Employed in Prof.: | 96% |
| Hold 1 Full-time Job: | 64% |
| Satisfied?: | 94% |

Job Turnover

| | |
|----------------------|-----|
| Switched Jobs: | 9% |
| Employed over 2 yrs: | 53% |

Time Allocation

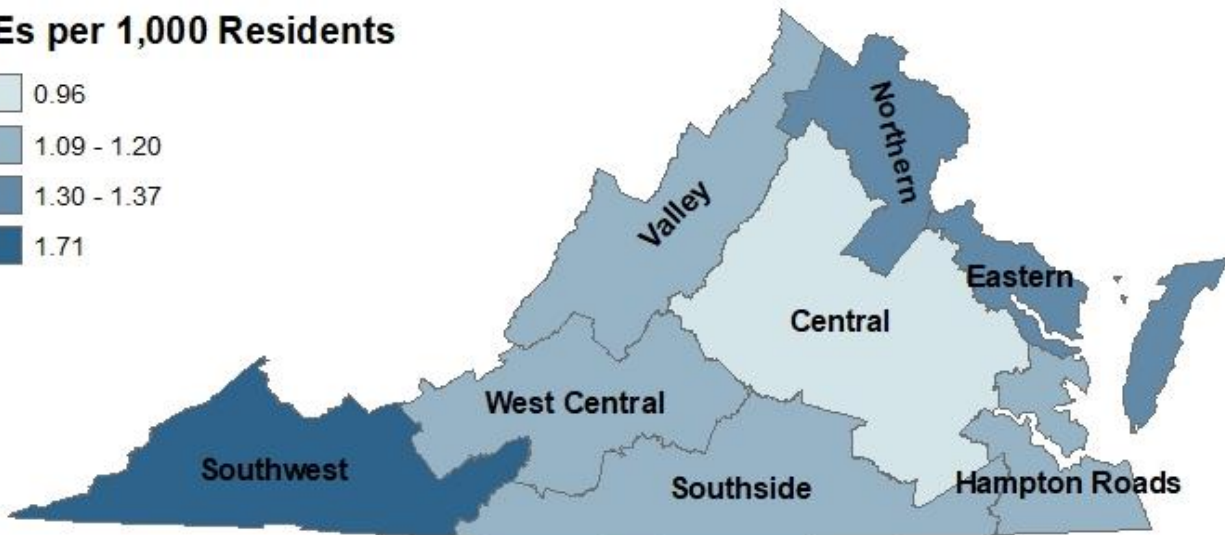
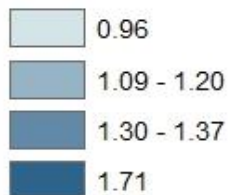
| | |
|--------------------|---------|
| Patient Care: | 90%-99% |
| Patient Care Role: | 88% |
| Admin. Role: | 3% |

Source: Va. Healthcare Workforce Data Center

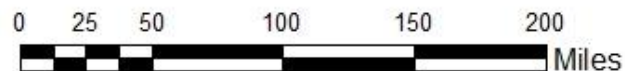
Full Time Equivalency Units Provided by Advanced Practice Registered Nurses per 1,000 Residents by Virginia Performs Areas

Source: Va Healthcare Work force Data Center

FTEs per 1,000 Residents



Annual Estimates of the Resident Population: July 1, 2021
Source: U.S. Census Bureau, Population Division



Over 7,000 Licensed Advanced Practice Registered Nurse (APRNs) voluntarily took part in the 2023 Licensed Nurse Practitioner Workforce Survey¹. The Virginia Department of Health Professions' Healthcare Workforce Data Center (HWDC) administers the survey during license renewal, which takes place during a two-year renewal cycle in the birth month of each respondent. About half of all APRNs have access to the survey every year. The 2023 survey respondents represent 35% of the 20,485 APRNs who are licensed in the state and 91% of renewing practitioners. This report includes any advanced practice registered nurse. Detailed information on APRNs, nurse anesthetists, and/or certified nurse midwives is available as a separate report.

The HWDC estimates that 14,837 APRNs participated in Virginia's workforce during the survey period, which is defined as those who worked at least a portion of the year in the state or who live in the state and intend to return to work as an APRN at some point in the future. Between October 2022 and September 2023, Virginia's APRN workforce provided 12,313 "full-time equivalency units" (FTEs), which the HWDC defines simply as working 2,000 hours a year.

Nine out of 10 APRNs are female, and the median age of all APRNs is 44. In a random encounter between two APRNs, there is a 45% chance that they would be of different races or ethnicities; this measure is known as the diversity index. This makes Virginia's APRN workforce less diverse than the state's overall population which has a diversity index of 60%. The diversity index is 45% among APRNs under age 40. Over one-third of APRNs grew up in a rural area, and 24% of these professionals currently work in non-Metro areas of the state. Overall, 11% of APRNs work in rural areas. Meanwhile, 44% of Virginia's APRNs graduated from high school in Virginia, and 50% of APRNs earned their initial professional degree in the state. In total, 55% of Virginia's APRN workforce have some educational background in the state.

Over three quarters of all APRNs hold a Master's degree as their highest professional degree and over 20% have additional education or certifications beyond a Master's degree. Over half of all APRNs currently carry educational debt, including 64% of those under the age of 40. The median debt for those APRNs with educational debt is between \$70,000 and \$80,000.

Summary of Trends

Several significant changes have occurred in the APRN workforce in the past six years. In 2018, a policy change authorized the Committee of the Joint Boards of Nursing and Medicine (the Joint Boards) to promulgate regulations that permit qualified nurse practitioners to practice autonomously after the completion of five years of clinical experience as a nurse practitioner. In 2020, the General Assembly reduced the required clinical experience to two years before autonomous practice. This change sunset July 1, 2022; the prerequisite years of clinical experience is 5 years, again. The number of licensed APRNs in the state has more than doubled since 2014; the number in the state's workforce also has more than doubled, and the FTEs provided increased by 113%. Compared to 2020, the response rate of renewing APRNs increased from 77% to 91%. The percent of APRNs working in non-metro areas decreased from a high of 14% in 2022 to compared to 11% in 2023.

The percent female has stayed consistently around 90%. The diversity index continues to increase from 28% in 2014 to a high of 45% in 2023, though the diversity index is still lower than the statewide diversity index (60%). Median age declined from 48 years in 2014 to 44 years in 2020 and has stayed at 44 through 2023. In 2023, the percent of APRNs with a doctorate APRN is 11%, which is higher than the 2014 level of 4%. The percent carrying debt also has increased across the years; 52% of all APRNs carry debt compared to 40% in 2014. Median debt increased from \$40,000-\$50,000 in 2014 to \$70,000-\$80,000. Median income also increased to \$110,000-\$120,000 since 2022. Retirement expectations have declined over time; and 19% of APRNs intend to retire within a decade of the survey, as compared to 24% in 2014.

¹ To reduce respondents' burden, HWDC changed its procedure in 2019 so that nurses now complete a survey for the highest profession in which they are practicing. This may have resulted in more APRNs responding. This distinction should be kept in mind when comparing this year's survey to previous years.

A Closer Look:

| Licensees | | |
|-----------------------------------|---------------|-------------|
| License Status | # | % |
| Renewing Practitioners | 6,720 | 33% |
| New Licensees | 2,912 | 14% |
| Non-Renewals | 978 | 5% |
| Renewal date not in survey period | 9,578 | 47% |
| All Licensees | 20,485 | 100% |

Source: Va. Healthcare Workforce Data Center

Our surveys tend to achieve very high response rates. More than nine of every ten renewing APRNs submitted a survey. These represent 35% of APRNs who held a license at some point during the licensing period.

Definitions

- 1. The Survey Period:** The survey was conducted between October 2022 and September 2023 in the birth month of each renewing practitioner.
- 2. Target Population:** All APRNs who held a Virginia license at some point during the survey period.
- 3. Survey Population:** The survey was available to APRNs who renewed their licenses online. It was not available to those who did not renew, including APRNs newly licensed during the

| Statistic | Response Rates | | Response Rate |
|-------------------------|-----------------|--------------|---------------|
| | Non Respondents | Respondent | |
| By Age | | | |
| Under 30 | 462 | 84 | 15% |
| 30 to 34 | 1,692 | 873 | 34% |
| 35 to 39 | 2,706 | 1,082 | 29% |
| 40 to 44 | 2,048 | 1,346 | 40% |
| 45 to 49 | 1,883 | 870 | 32% |
| 50 to 54 | 1,486 | 995 | 40% |
| 55 to 59 | 1,163 | 577 | 33% |
| 60 and Over | 1,943 | 1,275 | 40% |
| Total | 13,383 | 7,102 | 35% |
| New Licenses | | | |
| Issued After Sept. 2021 | 2,746 | 166 | 6% |
| Metro Status | | | |
| Non-Metro | 961 | 603 | 39% |
| Metro | 6,881 | 4,685 | 41% |
| Not in Virginia | 5,541 | 1,813 | 25% |

Source: Va. Healthcare Workforce Data Center

| Response Rates | |
|------------------------------|-------|
| Completed Surveys | 7,102 |
| Response Rate, all licensees | 35% |
| Response Rate, Renewals | 91% |

Source: Va. Healthcare Workforce Data Center

At a Glance:

Licensed APRNs

Number: 20,485
 New: 14%
 Not Renewed: 5%

Response Rates

All Licensees: 35%
 Renewing Practitioners: 91%

Source: Va. Healthcare Workforce Data Center

At a Glance:

Workforce

Virginia's APRN Workforce: 14,837
 FTEs: 12,313

Utilization Ratios

Licenses in VA Workforce: 72%
 Licenses per FTE: 1.66
 Workers per FTE: 1.20

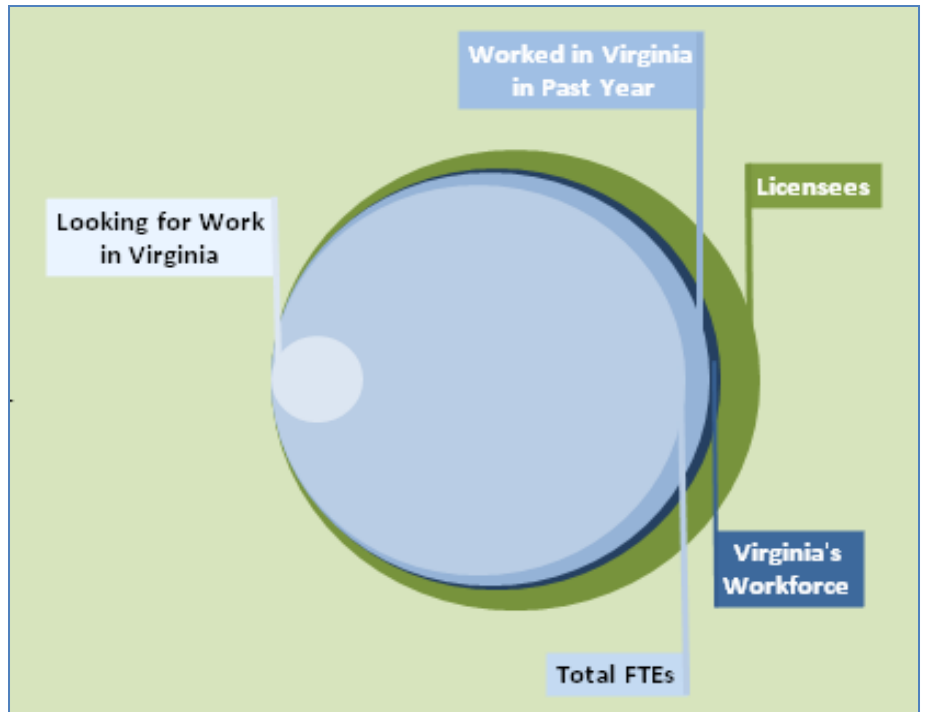
Source: Va. Healthcare Workforce Data Center

Definitions

- 1. Virginia's Workforce:** A licensee with a primary or secondary work site in Virginia at any time during the survey timeframe or who indicated intent to return to Virginia's workforce at any point in the future.
- 2. Full Time Equivalency Unit (FTE):** The HWDC uses 2,000 (40 hours for 50 weeks) as its baseline measure for FTEs.
- 3. Licenses in VA Workforce:** The proportion of licenses in Virginia's Workforce.
- 4. Licenses per FTE:** An indication of the number of licenses needed to create 1 FTE. Higher numbers indicate lower licensee participation.
- 5. Workers per FTE:** An indication of the number of workers in Virginia's workforce needed to create 1 FTE. Higher numbers indicate lower utilization of available workers.

| Virginia's APRN Workforce | | |
|---------------------------------|--------|------|
| Status | # | % |
| Worked in Virginia in Past Year | 14,561 | 98% |
| Looking for Work in Virginia | 275 | 2% |
| Virginia's Workforce | 14,837 | 100% |
| Total FTEs | 12,313 | |
| Licenses | 20,485 | |

Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

This report uses weighting to estimate the figures in this report. Unless otherwise noted, figures refer to the Virginia Workforce only. For more information on HWDC's methodology visit:

www.dhp.virginia.gov/hwdc

A Closer Look:

| Age & Gender | | | | | | |
|--------------|--------------|------------|---------------|------------|---------------|----------------|
| Age | Male | | Female | | Total | |
| | # | % Male | # | % Female | # | % in Age Group |
| Under 30 | 26 | 7% | 358 | 93% | 384 | 3% |
| 30 to 34 | 144 | 9% | 1,445 | 91% | 1,589 | 13% |
| 35 to 39 | 174 | 8% | 2,115 | 92% | 2,289 | 19% |
| 40 to 44 | 234 | 11% | 1,817 | 89% | 2,052 | 17% |
| 45 to 49 | 188 | 11% | 1,467 | 89% | 1,655 | 13% |
| 50 to 54 | 159 | 11% | 1,305 | 89% | 1,464 | 12% |
| 55 to 59 | 108 | 11% | 877 | 89% | 986 | 8% |
| 60 + | 212 | 11% | 1,656 | 89% | 1,868 | 15% |
| Total | 1,245 | 10% | 11,041 | 90% | 12,286 | 100% |

Source: Va. Healthcare Workforce Data Center

| Race & Ethnicity | | | | | |
|--------------------|-------------|---------------|-------------|----------------|-------------|
| Race/ Ethnicity | Virginia* | APRNs | | APRNs under 40 | |
| | % | # | % | # | % |
| White | 59% | 8,952 | 73% | 3,174 | 75% |
| Black | 18% | 1,762 | 14% | 476 | 11% |
| Asian | 7% | 735 | 6% | 269 | 6% |
| Other Race | 1% | 120 | 1% | 32 | 1% |
| Two or more races | 5% | 280 | 2% | 91 | 2% |
| Hispanic | 10% | 460 | 4% | 200 | 5% |
| Total | 100% | 12,309 | 100% | 4,242 | 100% |

*Population data in this chart is from the U.S. Census, Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States, States, and Counties: July 1, 2022.

Source: Va. Healthcare Workforce Data Center

At a Glance:

Gender
 % Female: 90%
 % Under 40 Female: 92%

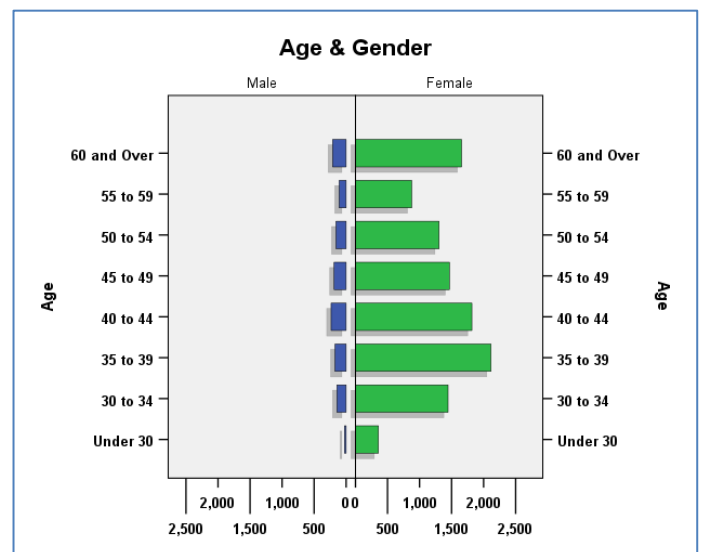
Age
 Median Age: 44
 % Under 40: 35%
 % 55+: 23%

Diversity
 Diversity Index: 45%
 Under 40 Div. Index: 42%

Source: Va. Healthcare Workforce Data Center

In a chance encounter between two APRNs, there is a 45% chance they would be of a different race/ethnicity (a measure known as the Diversity Index), compared to a 60% chance for Virginia's population as a whole.

35% of APRNs are under the age of 40. 92% of these professionals are female. In addition, the diversity index among APRNs under the age of 40 is 42%, which is slightly lower than the diversity index among Virginia's overall APRN workforce.



Source: Va. Healthcare Workforce Data Center

At a Glance:

Childhood

Urban Childhood: 13%
 Rural Childhood: 34%

Virginia Background

HS in Virginia: 44%
 Prof. Ed. in VA: 50%
 HS or Prof. Ed. in VA: 55%
 Initial NP Degree in VA: 51%

Location Choice

% Rural to Non-Metro: 24%
 % Urban/Suburban to Non-Metro: 5%

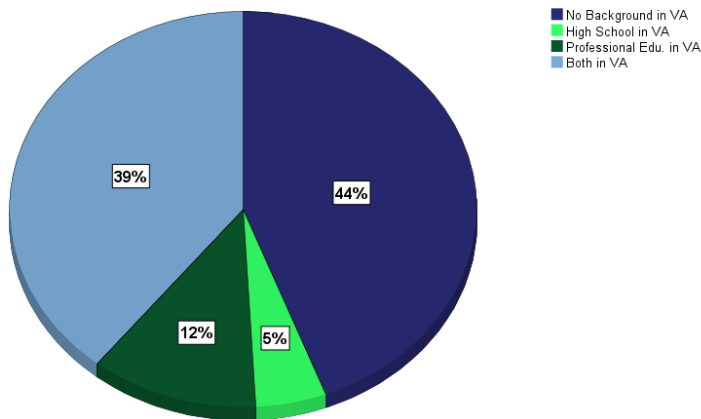
Source: Va. Healthcare Workforce Data Center

A Closer Look:

| Primary Location: USDA Rural Urban Continuum | | Rural Status of Childhood Location | | |
|---|---|---------------------------------------|------------|------------|
| Code | Description | Rural | Suburban | Urban |
| Metro Counties | | | | |
| 1 | Metro, 1 million+ | 23.4% | 61.2% | 15.4% |
| 2 | Metro, 250,000 to 1 million | 53.6% | 38.4% | 8.0% |
| 3 | Metro, 250,000 or less | 44.1% | 45.4% | 10.6% |
| Non-Metro Counties | | | | |
| 4 | Urban pop 20,000+, Metro adjacent | 65.2% | 25.9% | 9.0% |
| 6 | Urban pop, 2,500-19,999, Metro adjacent | 66.3% | 29.2% | 4.4% |
| 7 | Urban pop, 2,500-19,999, non adjacent | 87.5% | 9.3% | 3.2% |
| 8 | Rural, Metro adjacent | 72.5% | 22.2% | 5.2% |
| 9 | Rural, non adjacent | 52.0% | 34.7% | 13.3% |
| Overall | | 34% | 53% | 13% |

Source: Va. Healthcare Workforce Data Center

Educational Background in Virginia



Source: Va. Healthcare Workforce Data Center

34% of all APRNs grew up in self-described rural areas, and 24% of these professionals currently work in non-metro counties. Overall, 11% of all APRNs currently work in non-metro counties.

Top Ten States for Licensed Nurse Practitioner Recruitment

| Rank | All APRNs | | | | | |
|------|------------------------|-------|------------------------|-------|------------------|-------|
| | High School | # | Init. Prof Degree | # | Init. NP Degree | # |
| 1 | Virginia | 5,334 | Virginia | 6,088 | Virginia | 6,147 |
| 2 | Outside of U.S./Canada | 1,026 | Pennsylvania | 522 | Washington, D.C. | 627 |
| 3 | New York | 586 | New York | 508 | Tennessee | 597 |
| 4 | Maryland | 474 | Tennessee | 456 | Pennsylvania | 439 |
| 5 | Pennsylvania | 471 | Maryland | 455 | North Carolina | 434 |
| 6 | North Carolina | 458 | North Carolina | 449 | Maryland | 315 |
| 7 | Florida | 325 | Florida | 341 | New York | 298 |
| 8 | Tennessee | 276 | Outside of U.S./Canada | 311 | Florida | 276 |
| 9 | West Virginia | 255 | West Virginia | 266 | Illinois | 261 |
| 10 | Ohio | 248 | Ohio | 233 | Minnesota | 258 |

Source: Va. Healthcare Workforce Data Center

| Rank | Licensed in the Past 5 Years | | | | | |
|------|------------------------------|-------|------------------------|-------|------------------|-------|
| | High School | # | Init. Prof Degree | # | Init. NP Degree | # |
| 1 | Virginia | 2,381 | Virginia | 3,028 | Virginia | 2,876 |
| 2 | Outside of U.S./Canada | 558 | Maryland | 301 | Tennessee | 329 |
| 3 | Maryland | 233 | Pennsylvania | 252 | Washington, D.C. | 286 |
| 4 | New York | 232 | North Carolina | 245 | North Carolina | 225 |
| 5 | Pennsylvania | 206 | Tennessee | 219 | Pennsylvania | 202 |
| 6 | North Carolina | 198 | New York | 193 | Illinois | 202 |
| 7 | Florida | 197 | Florida | 179 | Maryland | 198 |
| 8 | Tennessee | 149 | Outside of U.S./Canada | 168 | Minnesota | 191 |
| 9 | New Jersey | 131 | West Virginia | 129 | Florida | 155 |
| 10 | Minnesota | 120 | Ohio | 117 | Massachusetts | 145 |

Source: Va. Healthcare Workforce Data Center

28% of Virginia's licensees did not participate in Virginia's APRN workforce during the past year. Ninety-five percent of these licensees worked at some point in the past year, including 91% who worked in a nursing-related capacity.

At a Glance:

Not in VA Workforce

| | |
|----------------------|-------|
| Total: | 5,651 |
| % of Licensees: | 28% |
| Federal/Military: | 9% |
| Va. Border State/DC: | 19% |

Source: Va. Healthcare Workforce Data Center

A Closer Look:

| Highest Degree | | |
|--------------------|---------------|-------------|
| Degree | # | % |
| NP Certificate | 220 | 2% |
| Master's Degree | 9,146 | 76% |
| Post-Masters Cert. | 887 | 7% |
| Doctorate of NP | 1,377 | 11% |
| Other Doctorate | 423 | 4% |
| Post-Ph.D. Cert. | 2 | 0% |
| Total | 12,055 | 100% |

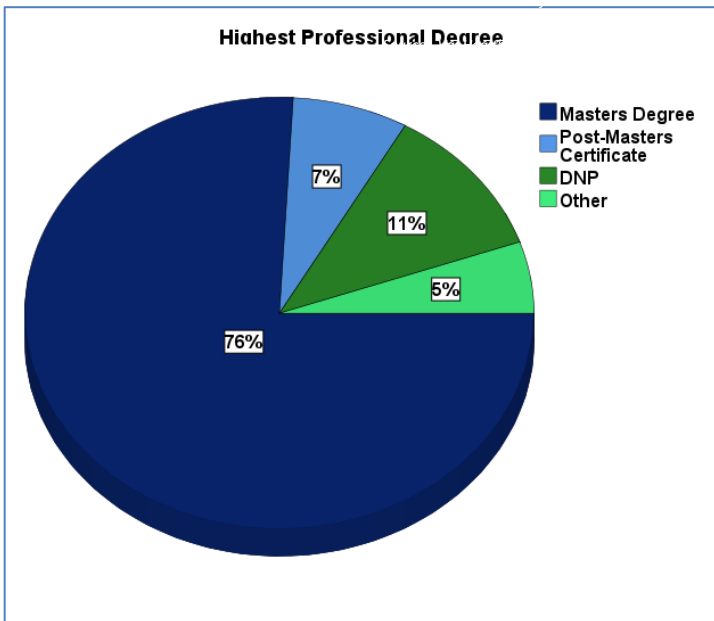
Source: Va. Healthcare Workforce Data Center

At a Glance:

Education
 Master's Degree: 76%
 Post-Masters Cert.: 7%

Educational Debt
 Carry debt: 52%
 Under age 40 w/ debt: 64%
 Median debt: \$70k-\$80k

Source: Va. Healthcare Workforce Data



Source: Va. Healthcare Workforce Data Center

More than three-quarters of all AP RNs hold a Master's degree as their highest professional degree. Half of AP RNs carry education debt, including 64% of those under the age of 40. The median debt burden among AP RNs with educational debt is between \$70,000 and \$80,000.

| Amount Carried | Educational Debt | | | |
|---------------------|------------------|-------------|-----------------|-------------|
| | All AP RNs | | AP RNs under 40 | |
| | # | % | # | % |
| None | 5,240 | 48% | 1,343 | 36% |
| \$10,000 or less | 380 | 3% | 151 | 4% |
| \$10,000-\$19,999 | 379 | 3% | 134 | 4% |
| \$20,000-\$29,999 | 403 | 4% | 186 | 5% |
| \$30,000-\$39,999 | 442 | 4% | 200 | 5% |
| \$40,000-\$49,999 | 415 | 4% | 193 | 5% |
| \$50,000-\$59,999 | 397 | 4% | 190 | 5% |
| \$60,000-\$69,999 | 423 | 4% | 219 | 6% |
| \$70,000-\$79,999 | 411 | 4% | 179 | 5% |
| \$80,000-\$89,999 | 357 | 3% | 161 | 4% |
| \$90,000-\$99,999 | 322 | 3% | 144 | 4% |
| \$100,000-\$109,999 | 320 | 3% | 128 | 3% |
| \$110,000-\$119,999 | 235 | 2% | 92 | 2% |
| \$120,000 or more | 1,210 | 11% | 451 | 12% |
| Total | 10,934 | 100% | 3,771 | 100% |

Source: Va. Healthcare Workforce Data Center

At a Glance:

Primary Specialty

| | |
|--------------------------------|-----|
| Family Health: | 29% |
| RN Anesthetist: | 14% |
| Psychiatric/ Mental Health: | 9% |

Credentials

| | |
|---|-----|
| AANPCP – Family NP: | 22% |
| ANCC – Family NP: | 19% |
| ANCC – Family Psychiatric- Mental Health NP: | 4% |

Source: Va. Healthcare Workforce Data Center

| Specialty | Primary | |
|--|---------------|-------------|
| | # | % |
| Family Health | 3,504 | 29% |
| Certified Registered Nurse Anesthetist | 1,606 | 14% |
| Psychiatric/Mental Health | 1,055 | 9% |
| Acute Care/Emergency Room | 957 | 8% |
| Pediatrics | 778 | 7% |
| Adult Health | 726 | 6% |
| OB/GYN - Women's Health | 378 | 3% |
| Geriatrics/Gerontology | 358 | 3% |
| Surgical | 343 | 3% |
| Medical Specialties (Not Listed) | 270 | 2% |
| Certified Nurse Midwife | 230 | 2% |
| Neonatal Care | 166 | 1% |
| Clinical Nurse Specialist | 129 | 1% |
| Gastroenterology | 117 | 1% |
| Other | 1,278 | 11% |
| Total | 11,895 | 100% |

Source: Va. Healthcare Workforce Data Center

Credentials

| Credential | # | % |
|--|--------------|------------|
| AANPCP: Family NP | 3,320 | 22% |
| ANCC: Family NP | 2,766 | 19% |
| ANCC: Family Psychiatric- Mental Health NP | 566 | 4% |
| ANCC: Adult-Gerontology Acute Care NP | 497 | 3% |
| ANCC: Adult Psychiatric-Mental Health NP | 453 | 3% |
| ANCC: Adult NP | 334 | 2% |
| ANCC: Acute Care NP | 332 | 2% |
| NCC: Women's Health Care NP | 316 | 2% |
| ANCC: Adult-Gerontology Primary Care NP | 294 | 2% |
| ANCC: Pediatric NP | 261 | 2% |
| AANPCP: Adult-Gerontology Primary Care NP (A-GNP-C) | 227 | 2% |
| NCC: Neonatal NP | 157 | 1% |
| AANPCP: Adult NP | 120 | 1% |
| All Other Credentials | 111 | 1% |
| At Least One Credential | 9,106 | 61% |

Source: Va. Healthcare Workforce Data Center

Approximately 30% of all APRNs had a primary specialty in family health, while another 14% had a primary specialty as a Certified RN Anesthetist. 61% of all APRNs also held at least one credential. AANPCP: Family NP was the most reported credential held by Virginia's APRN workforce.

At a Glance:

Employment

Employed in Profession: 96%
 Involuntarily Unemployed: <1%

Positions Held

1 Full-time: 64%
 2 or More Positions: 19%

Weekly Hours:

40 to 49: 50%
 60 or more: 6%
 Less than 30: 12%

Source: Va. Healthcare Workforce Data

A Closer Look:

| Current Work Status | | |
|---|---------------|-------------|
| Status | # | % |
| Employed, capacity unknown | 9 | <1% |
| Employed in a nursing- related capacity | 11,111 | 96% |
| Employed, NOT in a nursing-related capacity | 62 | 1% |
| Not working, reason unknown | 0 | 0% |
| Involuntarily unemployed | 15 | <1% |
| Voluntarily unemployed | 288 | 3% |
| Retired | 112 | 1% |
| Total | 11,596 | 100% |

Source: Va. Healthcare Workforce Data Center

96% of APRNs are currently employed in their profession. 64% of APRNs hold one full-time job, while 19% currently have multiple jobs. Half of all APRNs work between 40 and 49 hours per week, while 6% work at least 60 hours per week.

| Current Weekly Hours | | |
|----------------------|---------------|-------------|
| Hours | # | % |
| 0 hours | 2 | <1% |
| 1 to 9 hours | 166 | 1% |
| 10 to 19 hours | 313 | 3% |
| 20 to 29 hours | 858 | 7% |
| 30 to 39 hours | 2,464 | 21% |
| 40 to 49 hours | 5,756 | 50% |
| 50 to 59 hours | 1,178 | 10% |
| 60 to 69 hours | 500 | 4% |
| 70 to 79 hours | 98 | 1% |
| 80 or more hours | 137 | 1% |
| Total | 11,472 | 100% |

Source: Va. Healthcare Workforce Data Center

| Current Positions | | |
|---|---------------|-------------|
| Positions | # | % |
| No Positions | 303 | 3% |
| One Part-Time Position | 1,618 | 14% |
| Two Part-Time Positions | 518 | 4% |
| One Full-Time Position | 7,629 | 64% |
| One Full-Time Position & One Part-Time Position | 1,427 | 12% |
| Two Full-Time Positions | 45 | <1% |
| More than Two Positions | 311 | 3% |
| Total | 11,851 | 100% |

Source: Va. Healthcare Workforce Data Center

A Closer Look:

| Income | | |
|---------------------|--------------|-------------|
| Hourly Wage | # | % |
| Volunteer Work Only | 57 | 1% |
| Less than \$40,000 | 352 | 4% |
| \$40,000-\$49,999 | 157 | 2% |
| \$50,000-\$59,999 | 206 | 2% |
| \$60,000-\$69,999 | 232 | 3% |
| \$70,000-\$79,999 | 335 | 4% |
| \$80,000-\$89,999 | 574 | 6% |
| \$90,000-\$99,999 | 804 | 9% |
| \$100,000-\$109,999 | 1,334 | 14% |
| \$110,000-\$119,999 | 1,151 | 12% |
| \$120,000 or more | 4,196 | 45% |
| Total | 9,398 | 100% |

Source: Va. Healthcare Workforce Data Center

At a Glance:

Earnings
Median Income: \$110k-\$120k

Benefits
Retirement: 71%
Health Insurance: 61%

Satisfaction
Satisfied: 94%
Very Satisfied: 62%

Source: Va. Healthcare Workforce Data Center

| Job Satisfaction | | |
|-----------------------|---------------|-------------|
| Level | # | % |
| Very Satisfied | 7,336 | 62% |
| Somewhat Satisfied | 3,877 | 33% |
| Somewhat Dissatisfied | 535 | 5% |
| Very Dissatisfied | 137 | 1% |
| Total | 11,884 | 100% |

Source: Va. Healthcare Workforce Data Center

The typical APRN had an annual income of between \$110,000 and \$120,000. Among APRNs who received either a wage or salary as compensation at their primary work location, 71% also had access to a retirement plan and 61% received health insurance.

| Employer-Sponsored Benefits* | | | |
|-------------------------------------|--------------|------------|----------------------------|
| Benefit | # | % | % of Wage/Salary Employees |
| Paid Leave | 7,431 | 85% | 71% |
| Retirement | 7,525 | 86% | 71% |
| Health Insurance | 6,607 | 75% | 61% |
| Dental Insurance | 6,357 | 72% | 59% |
| Group Life Insurance | 5,193 | 59% | 49% |
| Signing/Retention Bonus | 2,002 | 23% | 18% |
| Receive at least one benefit | 8,799 | 79% | 82% |

*From any employer at time of survey.

Source: Va. Healthcare Workforce Data Center

A Closer Look:

| Employment Instability in Past Year | | |
|---|--------------|------------|
| In the past year did you . . . ? | # | % |
| Experience Involuntary Unemployment? | 102 | 1% |
| Experience Voluntary Unemployment? | 647 | 4% |
| Work Part-time or temporary positions, but would have preferred a full-time/permanent position? | 386 | 3% |
| Work two or more positions at the same time? | 2,717 | 18% |
| Switch employers or practices? | 1,338 | 9% |
| Experienced at least 1 | 4,329 | 29% |

Source: Va. Healthcare Workforce Data Center

Only 1% of Virginia’s APRNs experienced involuntary unemployment at some point in the prior year. By comparison, Virginia’s average monthly unemployment rate was 2.9% during the same period.¹

| Location Tenure | | | | |
|---|---------------|-------------|---------------|-------------|
| Tenure | Primary | | Secondary | |
| | # | % | # | % |
| Not Currently Working at this Location | 235 | 2% | 183 | 6% |
| Less than 6 Months | 1,132 | 10% | 474 | 15% |
| 6 Months to 1 Year | 1,455 | 13% | 459 | 14% |
| 1 to 2 Years | 2,645 | 23% | 741 | 23% |
| 3 to 5 Years | 2,655 | 23% | 687 | 22% |
| 6 to 10 Years | 1,626 | 14% | 345 | 11% |
| More than 10 Years | 1,798 | 16% | 280 | 9% |
| Subtotal | 11,546 | 100% | 3,169 | 100% |
| Did not have location | 299 | | 11,587 | |
| Item Missing | 2,992 | | 81 | |
| Total | 14,837 | | 14,837 | |

Source: Va. Healthcare Workforce Data Center

65% of APRNs receive a salary at their primary work location, while 27% receive an hourly wage.

At a Glance:

Unemployment Experience

Involuntarily Unemployed: 1%
Underemployed: 4%

Turnover & Tenure

Switched Jobs: 9%
New Location: 30%
Over 2 years: 53%
Over 2 yrs, 2nd location: 41%

Employment Type

Salary: 65%
Hourly Wage: 27%

Source: Va. Healthcare Workforce Data Center

53% of APRNs have worked at their primary location for more than 2 years—the job tenure normally required to get a conventional mortgage loan.

| Employment Type | | |
|----------------------------------|--------------|-----|
| Primary Work Site | # | % |
| Salary/ Commission | 5,621 | 65% |
| Hourly Wage | 2,353 | 27% |
| By Contract | 618 | 7% |
| Business/ Practice Income | 0 | 0% |
| Unpaid | 37 | <1% |
| Subtotal | 8,629 | |
| Missing location | 299 | |
| Item missing | 5,546 | |

Source: Va. Healthcare Workforce Data Center

¹ As reported by the U.S. Bureau of Labor Statistics. Over the past year, the non-seasonally adjusted monthly unemployment rate has fluctuated between a low of 2.5% and a high of 3.3%. At the time of publication, the unemployment rate for September 2023 was still preliminary.

At a Glance:

Concentration

| | |
|----------------|-----|
| Top Region: | 27% |
| Top 3 Regions: | 70% |
| Lowest Region: | 2% |

Locations

| | |
|------------------------|-----|
| 2 or more (Past Year): | 28% |
| 2 or more (Now*): | 26% |

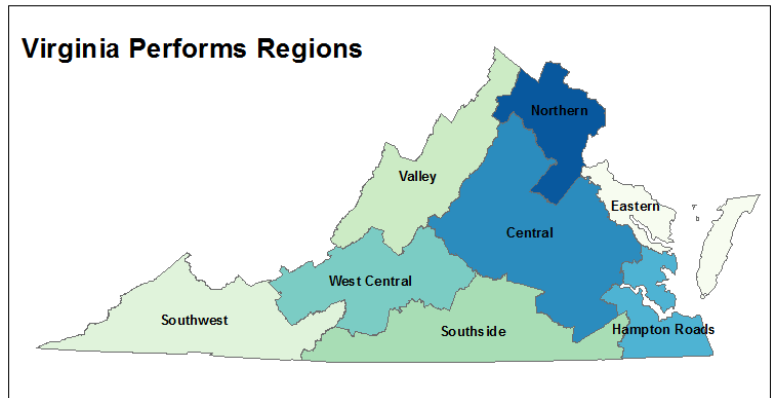
Source: Va. Healthcare Workforce Data Center

Northern Virginia has the highest number of APRNs in the state, while Eastern Virginia has the fewest number of APRNs in Virginia.

A Closer Look:

| Regional Distribution of Work Locations | | | | |
|---|------------------|-------------|--------------------|-------------|
| Virginia Performs Region | Primary Location | | Secondary Location | |
| | # | % | # | % |
| Central | 2,787 | 24% | 513 | 16% |
| Eastern | 178 | 2% | 33 | 1% |
| Hampton Roads | 2,100 | 18% | 631 | 20% |
| Northern | 3,143 | 27% | 788 | 24% |
| Southside | 426 | 4% | 131 | 4% |
| Southwest | 684 | 6% | 215 | 7% |
| Valley | 748 | 6% | 162 | 5% |
| West Central | 1,113 | 10% | 282 | 9% |
| Virginia Border State/DC | 117 | 1% | 112 | 3% |
| Other US State | 250 | 2% | 345 | 11% |
| Outside of the US | 3 | 0% | 11 | 0% |
| Total | 11,549 | 100% | 3,223 | 100% |
| Item Missing | 2,989 | | 28 | |

Source: Va. Healthcare Workforce Data Center



26% of all APRNs had just one work location during the past year, while 28% of APRNs had multiple work locations.

| Number of Work Locations | | | | |
|--------------------------|-----------------------------|-------------|---------------------|-------------|
| Locations | Work Locations in Past Year | | Work Locations Now* | |
| | # | % | # | % |
| 0 | 273 | 2% | 401 | 3% |
| 1 | 8,249 | 70% | 8,348 | 71% |
| 2 | 1,928 | 16% | 1,927 | 16% |
| 3 | 957 | 8% | 851 | 7% |
| 4 | 180 | 2% | 110 | 1% |
| 5 | 65 | 1% | 42 | <1% |
| 6 or More | 108 | 1% | 81 | 1% |
| Total | 11,761 | 100% | 11,761 | 100% |

*At the time of survey completion (Oct. 2022 - Sept. 2023, birth month of respondent).

Source: Va. Healthcare Workforce Data Center

A Closer Look:

| Sector | Location Sector | | | |
|---------------------------------|------------------|-------------|--------------------|-------------|
| | Primary Location | | Secondary Location | |
| | # | % | # | % |
| For-Profit | 5,925 | 54% | 1,941 | 64% |
| Non-Profit | 3,641 | 33% | 807 | 26% |
| State/Local Government | 770 | 7% | 183 | 6% |
| Veterans Administration | 279 | 3% | 34 | 1% |
| U.S. Military | 211 | 2% | 65 | 2% |
| Other Federal Government | 109 | 1% | 16 | 1% |
| Total | 10,935 | 100% | 3,046 | 100% |
| Did not have location | 299 | | 11,587 | |
| Item Missing | 3,603 | | 204 | |

Source: Va. Healthcare Workforce Data Center

At a Glance: (Primary Locations)

Sector

| | |
|-------------|-----|
| For Profit: | 54% |
| Federal: | 5% |

Top Establishments

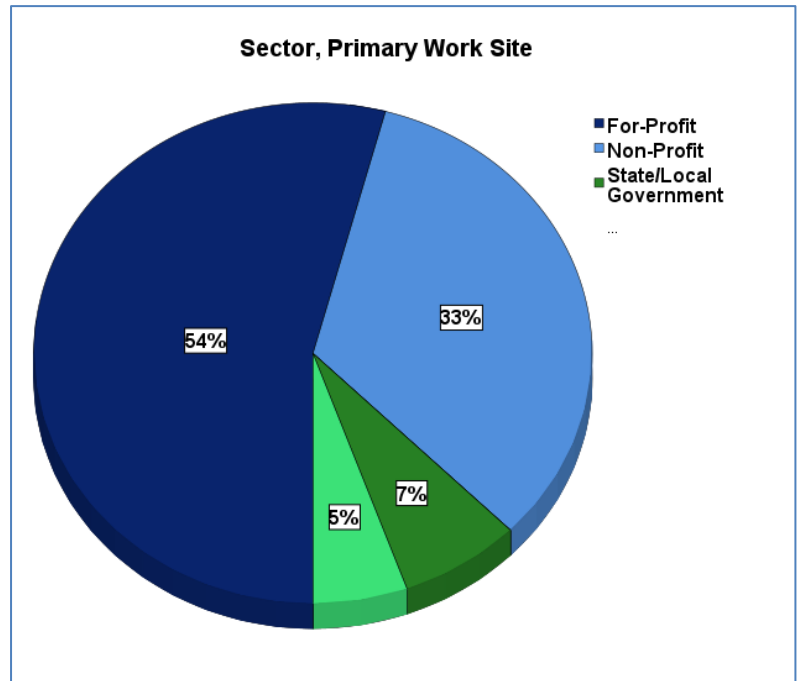
| | |
|-----------------------|-----|
| Hospital, Inpatient: | 20% |
| Clinic, Primary Care: | 17% |
| Academic Institution: | 7% |

Source: Va. Healthcare Workforce Data Center

More than 85% of all APRNs work in the private sector, including 54% in for-profit establishments. Meanwhile, 7% of APRNs work for state or local governments, and 5% work for the federal government.

| Electronic Health Records (EHRs) and Telehealth | | |
|---|--------------|------------|
| | # | % |
| Meaningful use of EHRs | 4,164 | 28% |
| Remote Health, Caring for Patients in Virginia | 3,717 | 25% |
| Remote Health, Caring for Patients Outside of Virginia | 938 | 6% |
| Use at least one | 5,946 | 40% |

Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

Over a quarter of the state's APRN workforce use EHRs. 25% also provide remote health care for Virginia patients.

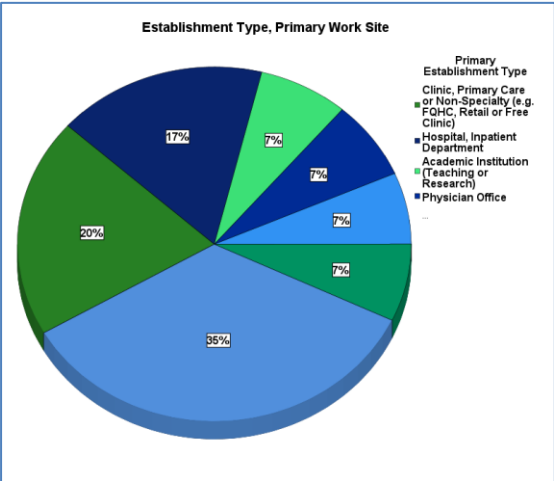
| Establishment Type | Location Type | | | |
|--|------------------|-------------|--------------------|-------------|
| | Primary Location | | Secondary Location | |
| | # | % | # | % |
| Clinic, Primary Care or Non-Specialty | 2,126 | 20% | 407 | 14% |
| Hospital, Inpatient Department | 1,834 | 17% | 428 | 15% |
| Academic Institution (Teaching or Research) | 786 | 7% | 222 | 8% |
| Physician Office | 765 | 7% | 116 | 4% |
| Hospital, Outpatient Department | 693 | 7% | 106 | 4% |
| Private practice, group | 600 | 6% | 118 | 4% |
| Clinic, Non-Surgical Specialty | 506 | 5% | 132 | 5% |
| Mental Health, or Substance Abuse, Outpatient Center | 488 | 5% | 177 | 6% |
| Ambulatory/Outpatient Surgical Unit | 368 | 3% | 189 | 7% |
| Long Term Care Facility, Nursing Home | 347 | 3% | 119 | 4% |
| Hospital, Emergency Department | 272 | 3% | 117 | 4% |
| Private practice, solo | 233 | 2% | 85 | 3% |
| Home Health Care | 172 | 2% | 77 | 3% |
| Other Practice Setting | 1,452 | 14% | 612 | 21% |
| Total | 10,642 | 100% | 2,905 | 100% |
| Did Not Have a Location | 299 | | 11,587 | |

Source: Va. Healthcare Workforce Data Center

The single largest employer of Virginia's APRNs is primary care or non-specialty clinics of hospitals, where 20% of all APRNs have their primary work location. Inpatient hospital departments, academic institutions, physicians' offices, and outpatient hospital departments were also common primary establishment types for Virginia's APRN workforce.

Among those APRNs who also have a secondary work location, 15% work at the inpatient department of a hospital and 14% work in a primary care/non-specialty clinic.

92% of APRNs who responded to the question about forms of payment reported accepting private insurance as a form of payment for services rendered.



Source: Va. Healthcare Workforce Data Center

| Accepted Forms of Payment | | |
|---------------------------|-------|----------------|
| Payment | # | % of Workforce |
| Private Insurance | 8,553 | 92% |
| Medicaid | 7,912 | 85% |
| Medicare | 7,885 | 85% |
| Cash/Self-Pay | 7,513 | 81% |

Source: Va. Healthcare Workforce Data Center

At a Glance: (Primary Locations)

Typical Time Allocation

Patient Care: 90%-99%
Administration: 1%-9%
Education: 1%-9%

Roles

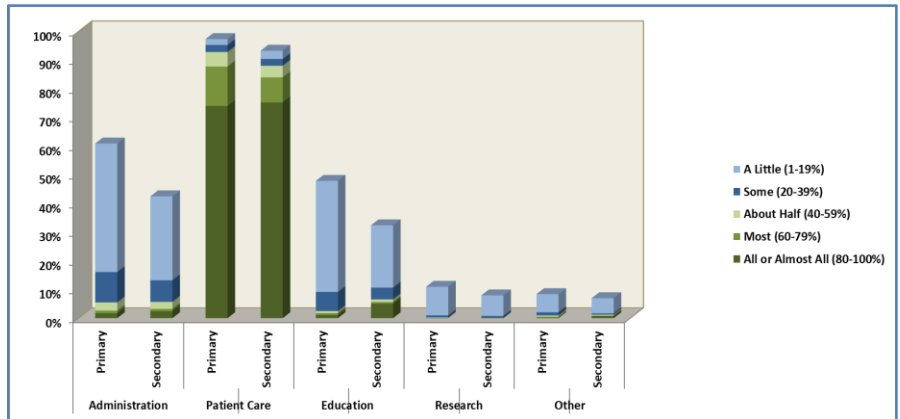
Patient Care: 88%
Administration: 3%
Education: 2%

Patient Care APRNs

Median Admin Time: 1%-9%
Ave. Admin Time: 1%-9%

Source: Va. Healthcare Workforce Data Center

A Closer Look:



Source: Va. Healthcare Workforce Data Center

A typical APRN spends most of her time on patient care activities, with most of the remaining time split between administrative and educational tasks. 88% of all APRNs fill a patient care role, defined as spending 60% or more of their time on patient care activities.

| Time Allocation | | | | | | | | | | | |
|------------------------------------|------------|-----------|--------------|-----------|------------|-----------|------------|-----------|------------|-----------|--|
| Time Spent | Admin. | | Patient Care | | Education | | Research | | Other | | |
| | Prim. Site | Sec. Site | Prim. Site | Sec. Site | Prim. Site | Sec. Site | Prim. Site | Sec. Site | Prim. Site | Sec. Site | |
| All or Almost All (80-100%) | 2% | 2% | 74% | 75% | 1% | 5% | 0% | 0% | 0% | 1% | |
| Most (60-79%) | 1% | 1% | 14% | 9% | 1% | 1% | 0% | 0% | 0% | 0% | |
| About Half (40-59%) | 3% | 2% | 5% | 4% | 1% | 1% | 0% | 0% | 0% | 0% | |
| Some (20-39%) | 11% | 8% | 2% | 2% | 7% | 4% | 1% | 1% | 1% | 0% | |
| A Little (1-20%) | 45% | 29% | 2% | 3% | 39% | 22% | 10% | 7% | 6% | 5% | |
| None (0%) | 39% | 58% | 3% | 7% | 52% | 68% | 89% | 92% | 92% | 93% | |

Source: Va. Healthcare Workforce Data

A Closer Look:

| Retirement Expectations | | | | |
|----------------------------------|---------------|-------------|---------------|-------------|
| Expected Retirement Age | All APRNs | | APRNs over 50 | |
| | # | % | # | % |
| Under age 50 | 198 | 2% | 0 | 0% |
| 50 to 54 | 372 | 4% | 20 | 1% |
| 55 to 59 | 967 | 9% | 148 | 4% |
| 60 to 64 | 2,715 | 26% | 760 | 21% |
| 65 to 69 | 3,732 | 36% | 1,496 | 41% |
| 70 to 74 | 1,283 | 12% | 676 | 19% |
| 75 to 79 | 406 | 4% | 242 | 7% |
| 80 or over | 130 | 1% | 70 | 2% |
| I do not intend to retire | 583 | 6% | 240 | 7% |
| Total | 10,386 | 100% | 3,652 | 100% |

Source: Va. Healthcare Workforce Data Center

At a Glance:

Retirement Expectations

All APRNs

Under 65: 41%

Under 60: 15%

APRNs 50 and over

Under 65: 25%

Under 60: 5%

Time until Retirement

Within 2 years: 6%

Within 10 years: 19%

Half the workforce: By 2048

Source: Va. Healthcare Workforce Data Center

41% of APRNs expect to retire by the age of 65, while 25% of APRNs who are age 50 or over expect to retire by the same age. Meanwhile, 36% of all APRNs expect to retire in their late 60s, and 23% of all APRNs expect to work until at least age 70, including 6% who do not expect to retire at all.

Within the next two years, only 2% of Virginia's APRNs plan on leaving either the profession or the state. Meanwhile, 10% of APRNs plan on increasing patient care hours, and 11% plan on pursuing additional educational opportunities.

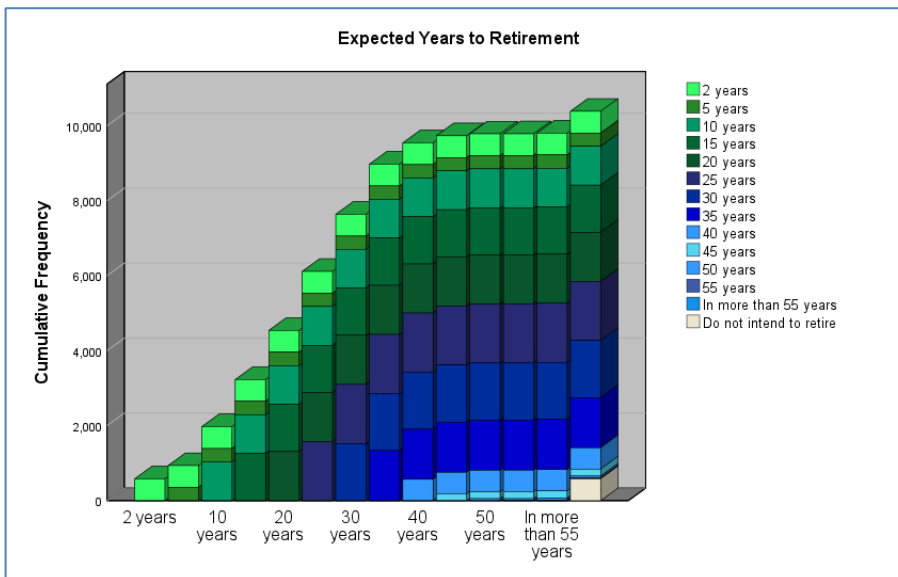
| Future Plans | | |
|---------------------------------------|-------|-----|
| 2 Year Plans: | # | % |
| Decrease Participation | | |
| Leave Profession | 146 | 1% |
| Leave Virginia | 319 | 2% |
| Decrease Patient Care Hours | 1,439 | 10% |
| Decrease Teaching Hours | 98 | 1% |
| Increase Participation | | |
| Increase Patient Care Hours | 1,508 | 10% |
| Increase Teaching Hours | 1,464 | 10% |
| Pursue Additional Education | 1,638 | 11% |
| Return to Virginia's Workforce | 106 | 1% |

Source: Va. Healthcare Workforce Data Center

By comparing retirement expectation to age, we can estimate the maximum years to retirement for APRNs. 6% of APRNs expect to retire in the next two years, while 19% expect to retire in the next 10 years. More than half of the current APRN workforce expect to retire by 2048.

| Time to Retirement | | | |
|--------------------------------|---------------|-------------|--------------|
| Expect to retire within. . . | # | % | Cumulative % |
| 2 years | 581 | 6% | 6% |
| 5 years | 355 | 3% | 9% |
| 10 years | 1,037 | 10% | 19% |
| 15 years | 1,257 | 12% | 31% |
| 20 years | 1,309 | 13% | 44% |
| 25 years | 1,577 | 15% | 59% |
| 30 years | 1,524 | 15% | 74% |
| 35 years | 1,335 | 13% | 86% |
| 40 years | 569 | 5% | 92% |
| 45 years | 190 | 2% | 94% |
| 50 years | 52 | 1% | 94% |
| 55 years | 2 | 0% | 94% |
| In more than 55 years | 16 | 0% | 94% |
| Do not intend to retire | 583 | 6% | 100% |
| Total | 10,386 | 100% | |

Source: Va. Healthcare Workforce Data Center



Source: Va. Healthcare Workforce Data Center

Using these estimates, retirement will begin to reach over 10% of the current workforce every 5 years by 2033. Retirement will peak at 15% of the current workforce around 2048 before declining to under 10% of the current workforce again around 2063.

At a Glance:

FTEs

Total: 12,313
 FTEs/1,000 Residents: 1.42
 Average: 0.85

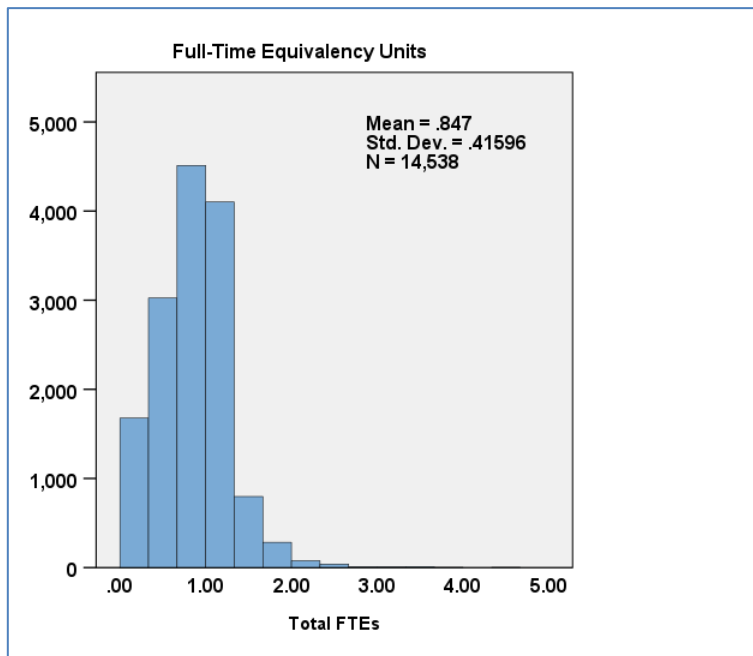
Age & Gender Effect

Age, Partial Eta²: Negligible
 Gender, Partial Eta²: Negligible

Partial Eta² Explained:
 Partial Eta² is a statistical measure of effect size.

Source: Va. Healthcare Workforce Data Center

A Closer Look:

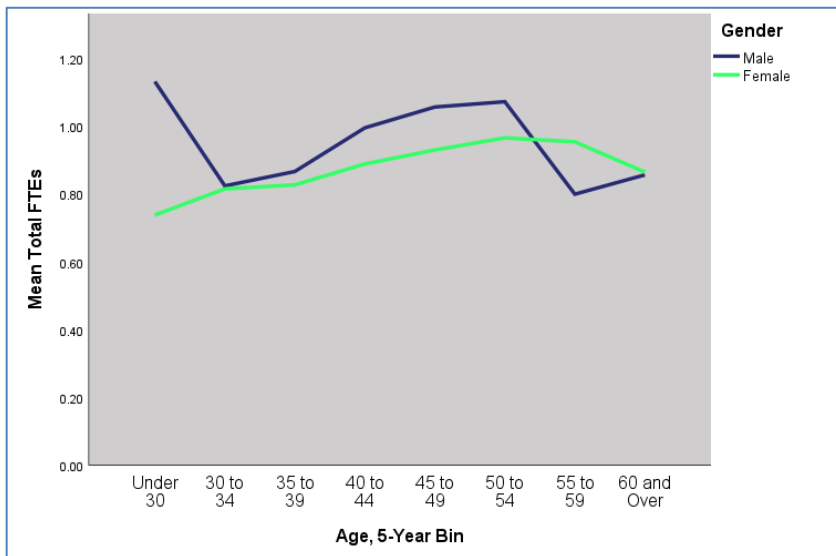


Source: Va. Healthcare Workforce Data Center

The typical (median) APRN provided 0.85 FTEs, or approximately 34 hours per week for 52 weeks. Although FTEs appear to vary by age and gender, statistical tests did not verify a difference exists².

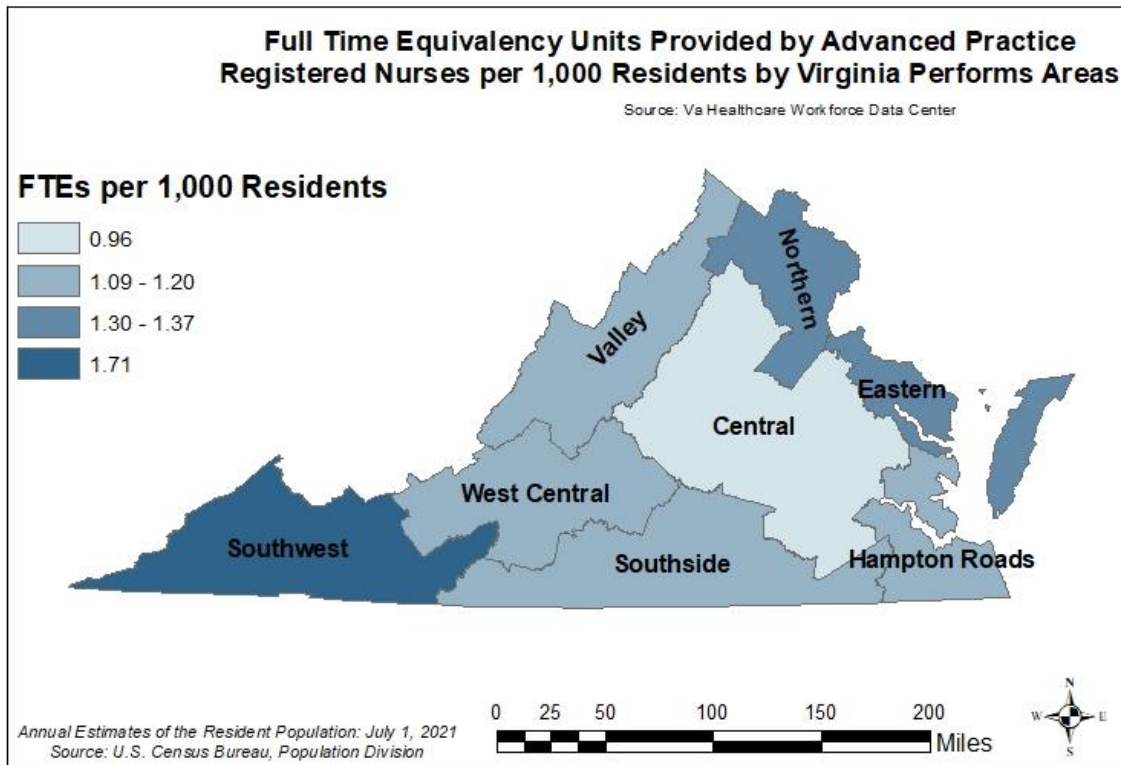
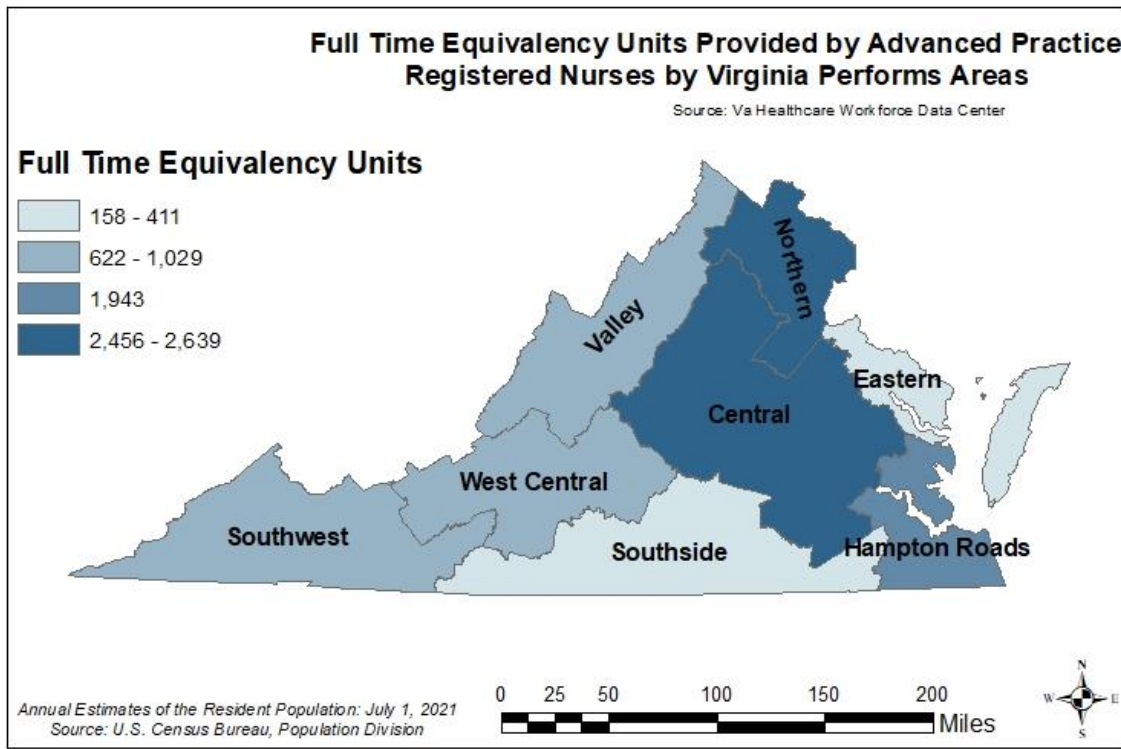
| Full-Time Equivalency Units | | |
|-----------------------------|---------|--------|
| Age | Average | Median |
| Under 30 | 0.76 | 0.74 |
| 30 to 34 | 0.79 | 0.79 |
| 35 to 39 | 0.77 | 0.79 |
| 40 to 44 | 0.89 | 0.83 |
| 45 to 49 | 0.93 | 0.86 |
| 50 to 54 | 0.96 | 0.90 |
| 55 to 59 | 0.79 | 0.89 |
| 60 and Over | 0.82 | 0.81 |
| Gender | | |
| Male | 0.94 | 1.03 |
| Female | 0.88 | 0.91 |

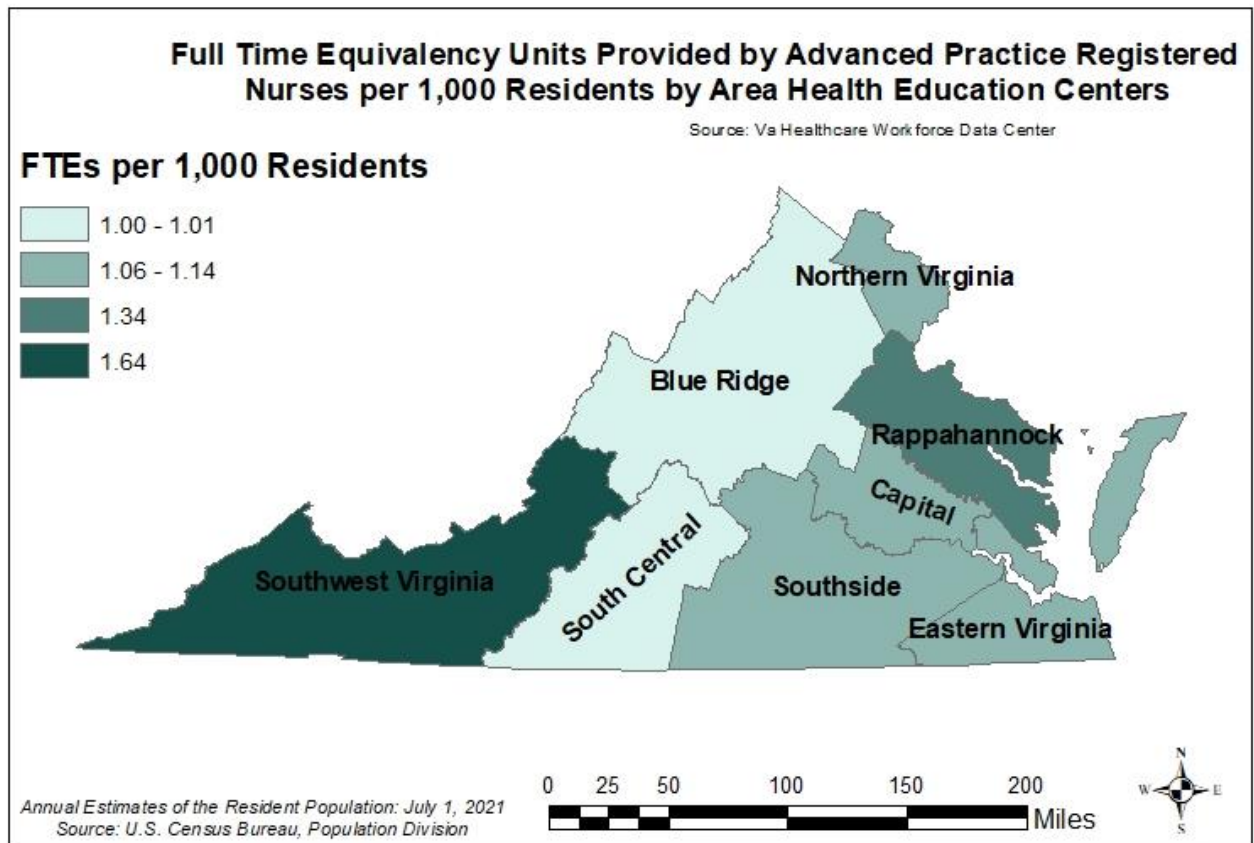
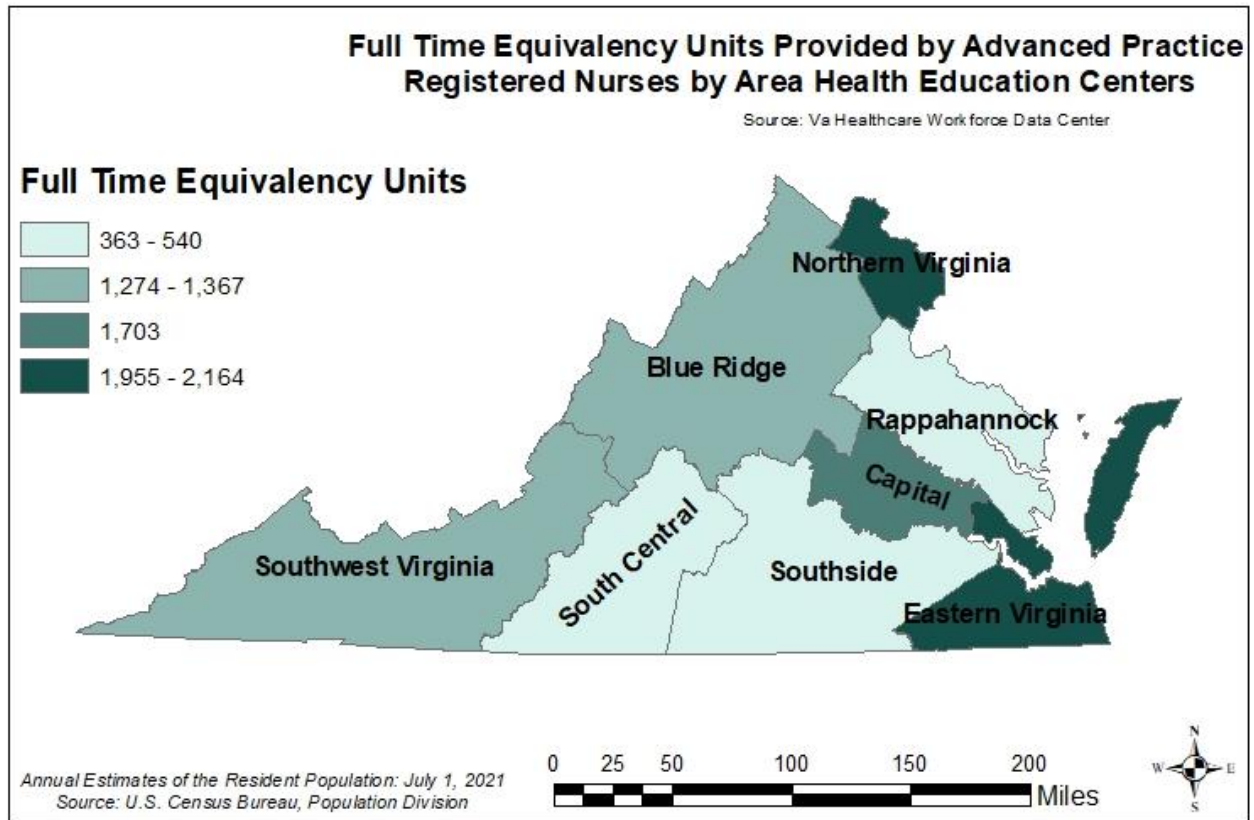
Source: Va. Healthcare Workforce Data Center

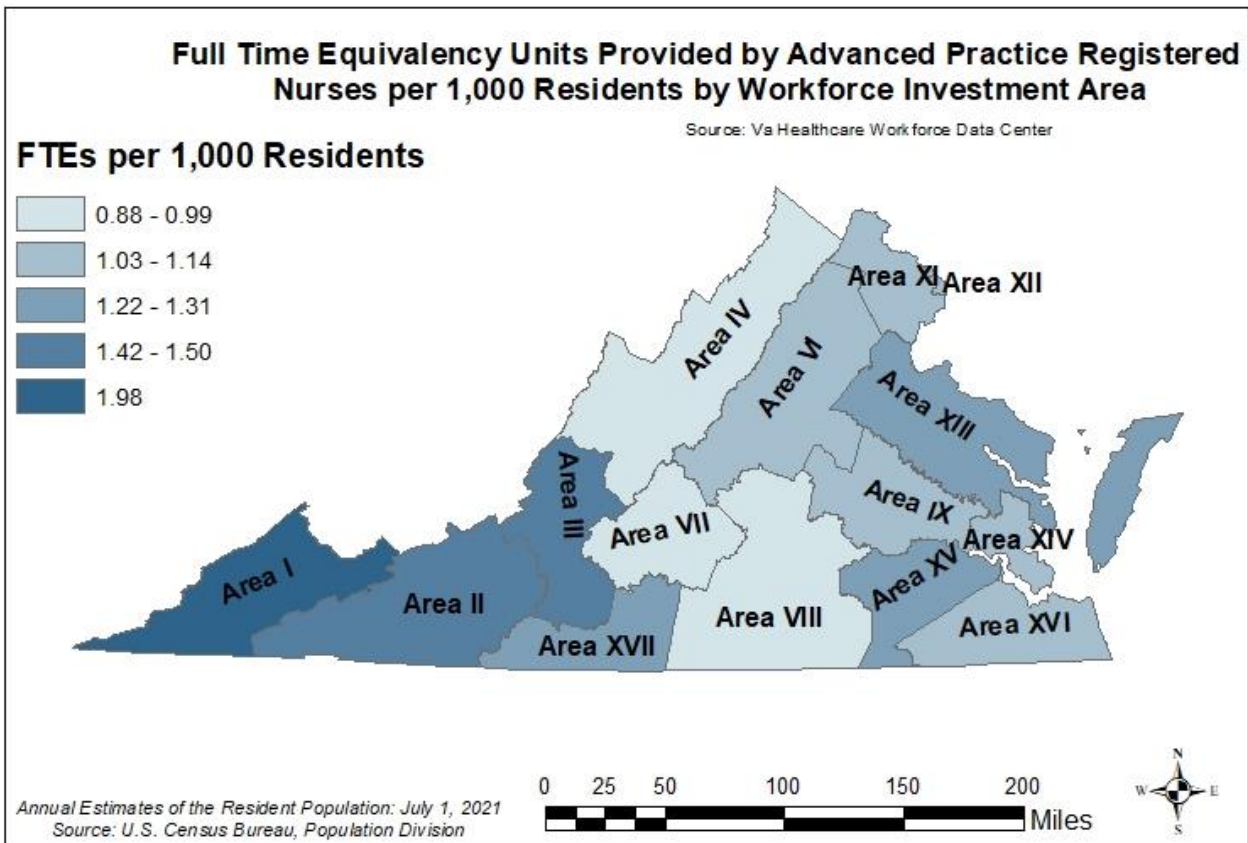
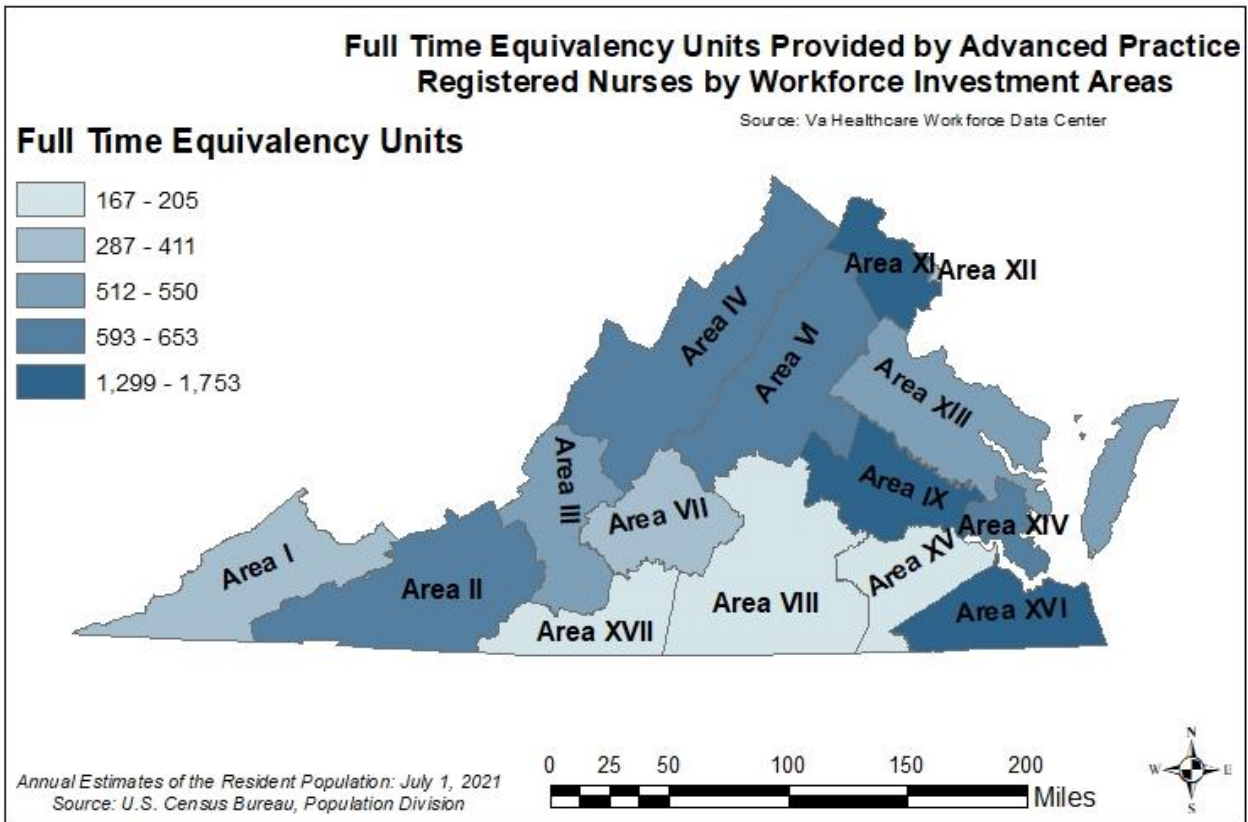


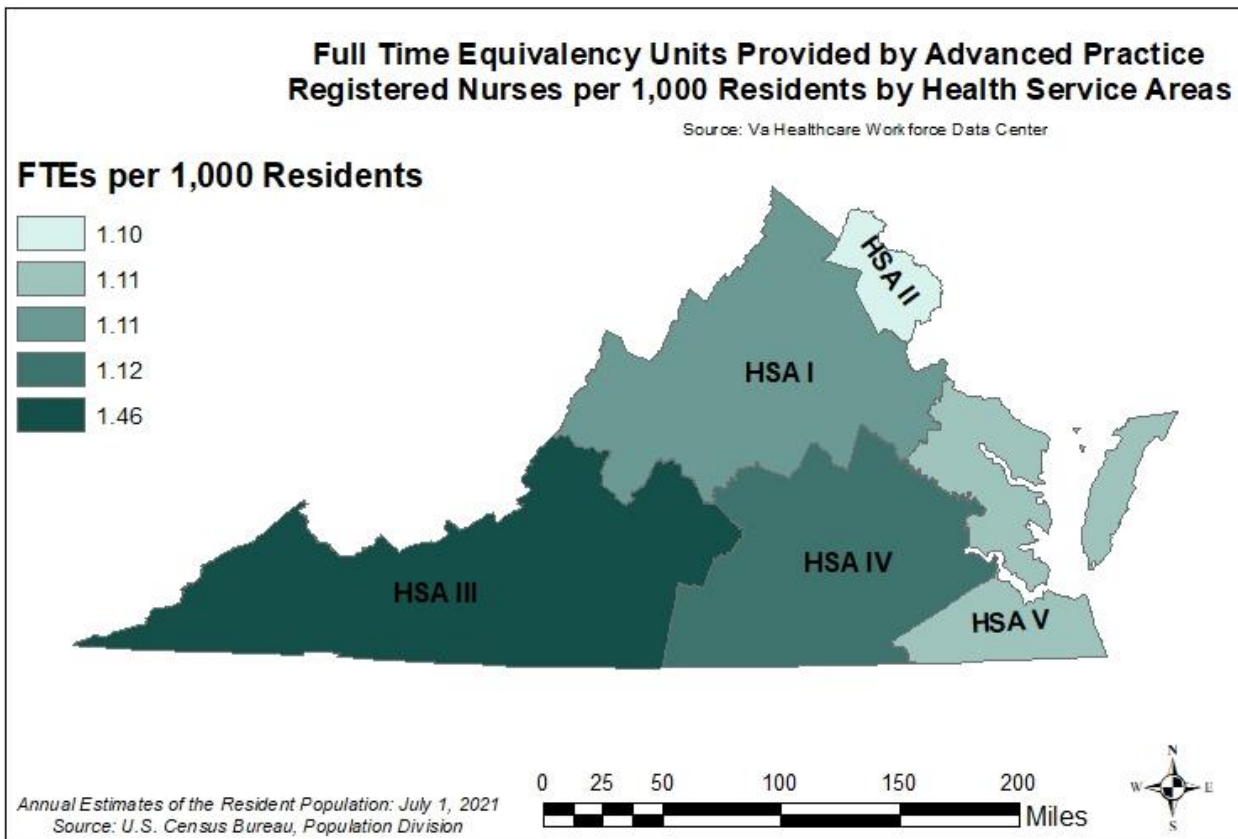
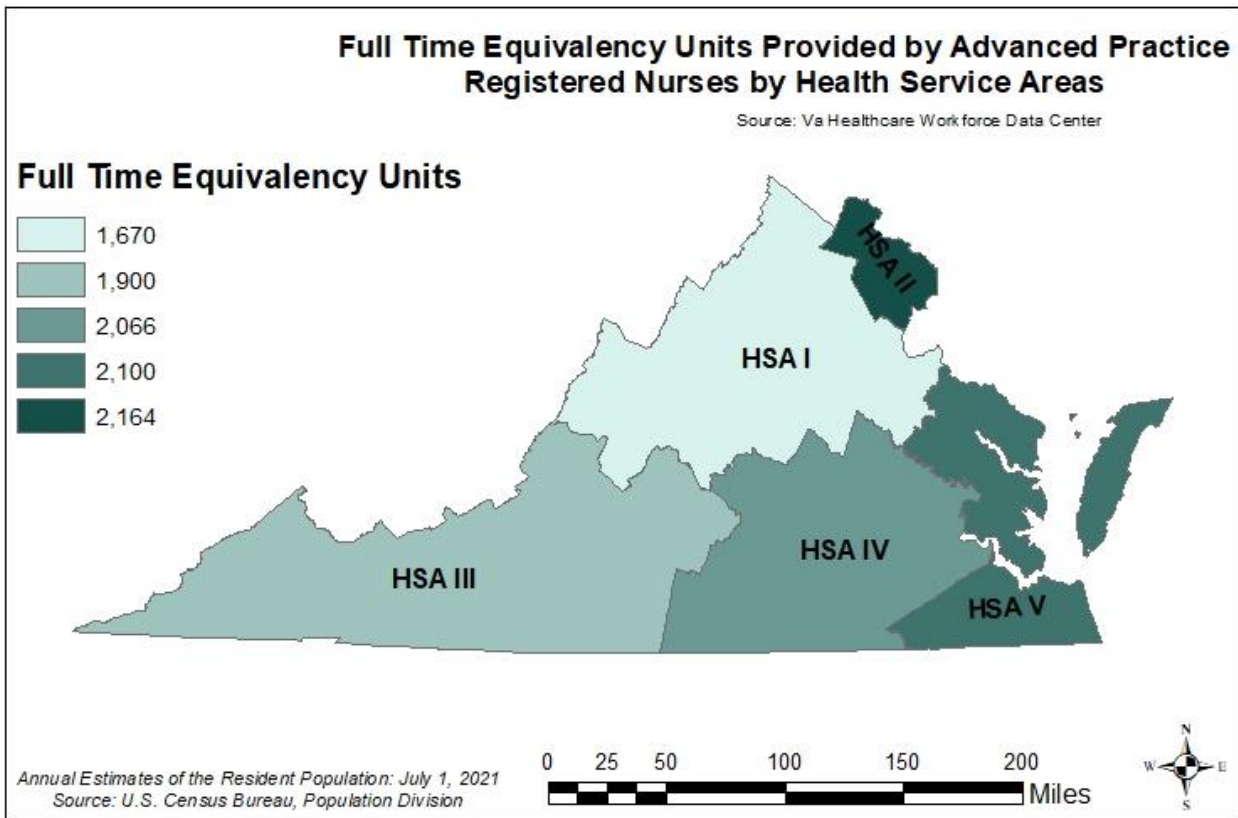
Source: Va. Healthcare Workforce Data Center

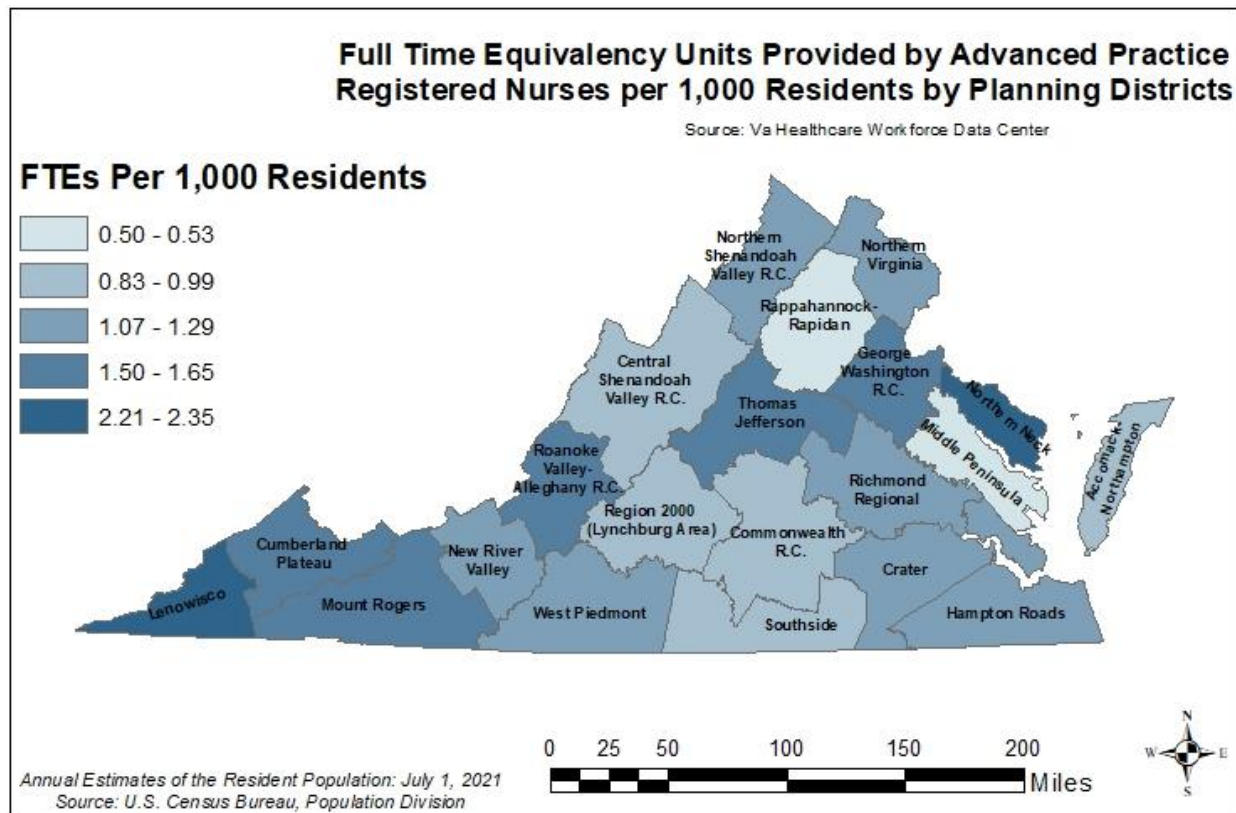
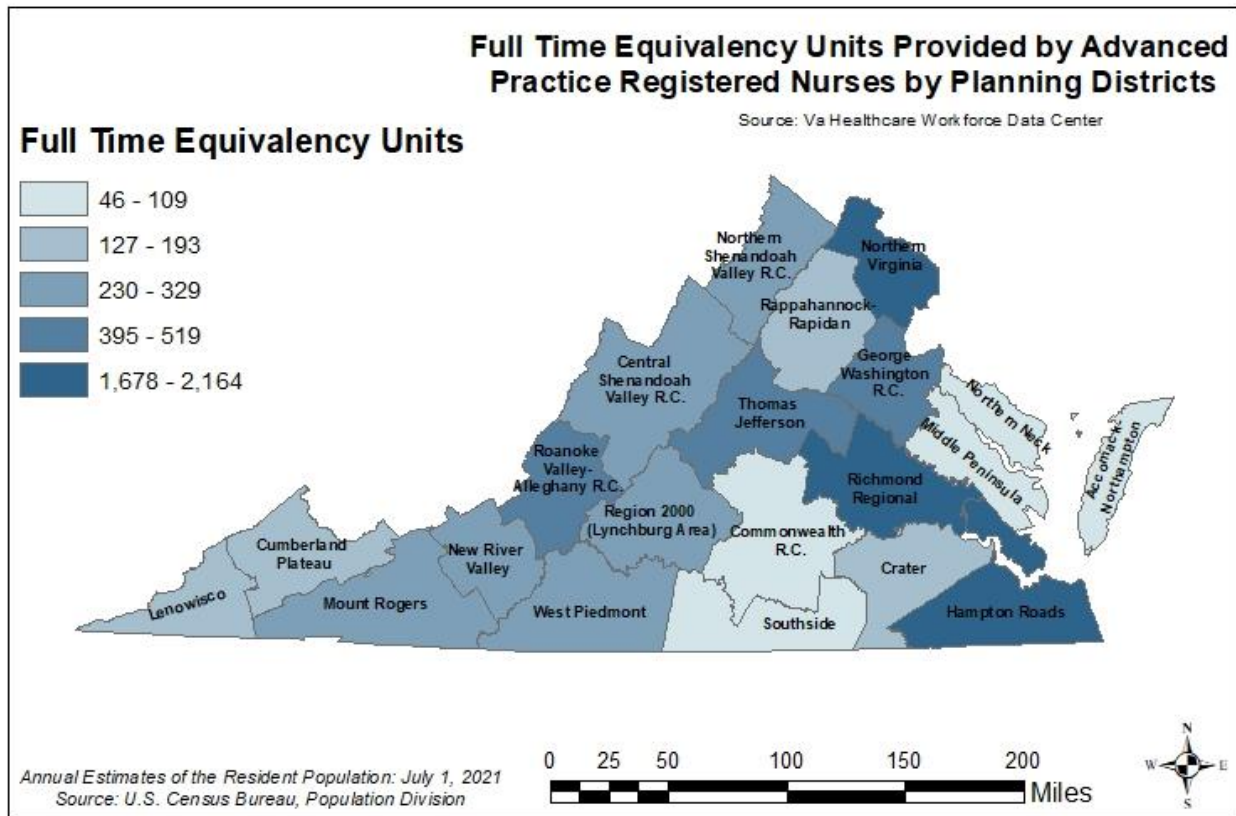
² Due to assumption violations in Mixed between-within ANOVA (Levene's Test and Interaction effect are significant)











Appendices

Appendix A: Weights

| Rural Status | Location Weight | | | Total Weight | |
|------------------------------------|-----------------|--------|--------|--------------|--------|
| | # | Rate | Weight | Min | Max |
| Metro, 1 million+ | 7,930 | 38.90% | 2.5705 | 2.1289 | 5.2792 |
| Metro, 250,000 to 1 million | 1,008 | 36.31% | 2.7541 | 2.2810 | 5.6562 |
| Metro, 250,000 or less | 1,273 | 40.22% | 2.4863 | 2.0592 | 5.1063 |
| Urban pop 20,000+, Metro adj | 201 | 38.31% | 2.6104 | 2.1620 | 3.2035 |
| Urban pop 20,000+, nonadj | 0 | NA | NA | NA | NA |
| Urban pop, 2,500-19,999, Metro adj | 398 | 32.66% | 3.0615 | 2.5356 | 6.2876 |
| Urban pop, 2,500-19,999, nonadj | 355 | 40.85% | 2.4483 | 2.0277 | 5.0282 |
| Rural, Metro adj | 310 | 35.48% | 2.8182 | 2.3341 | 5.7879 |
| Rural, nonadj | 117 | 48.72% | 2.0526 | 1.7000 | 4.2156 |
| Virginia border state/DC | 2,494 | 24.82% | 4.0291 | 3.3369 | 8.2747 |
| Other US State | 2,970 | 23.16% | 4.3169 | 3.5753 | 8.8658 |

Source: Va. Healthcare Workforce Data Center

| Age | Age Weight | | | Total Weight | |
|-------------|------------|--------|--------|--------------|--------|
| | # | Rate | Weight | Min | Max |
| Under 30 | 472 | 16.53% | 6.0513 | 4.2156 | 8.8658 |
| 30 to 34 | 2,229 | 35.53% | 2.8144 | 1.9606 | 4.1234 |
| 35 to 39 | 3,088 | 27.66% | 3.6159 | 2.5190 | 5.2977 |
| 40 to 44 | 2,667 | 37.65% | 2.6564 | 1.8506 | 3.8919 |
| 45 to 49 | 2,243 | 30.32% | 3.2985 | 2.2979 | 4.8327 |
| 50 to 54 | 2,023 | 40.98% | 2.4403 | 1.7000 | 3.5753 |
| 55 to 59 | 1,488 | 31.65% | 3.1592 | 2.2009 | 4.6286 |
| 60 and Over | 2,847 | 37.97% | 2.6337 | 1.8347 | 3.8586 |

Source: Va. Healthcare Workforce Data Center

See the Methods section on the HWDC website for details on HWDC

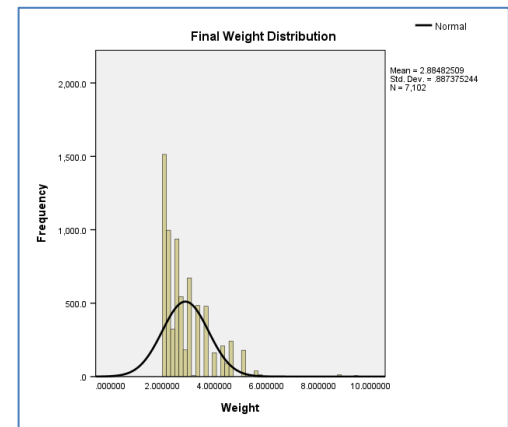
Methods:

<https://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/>

Final weights are calculated by multiplying the two weights and the overall response rate:

$$\text{Age Weight} \times \text{Rural Weight} \times \text{Response Rate} = \text{Final Weight.}$$

Overall Response Rate: 0.34669



Source: Va. Healthcare Workforce Data Center