

Trends in the Supply and Distribution of Nurse Practitioners in North Carolina

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Presentation overview

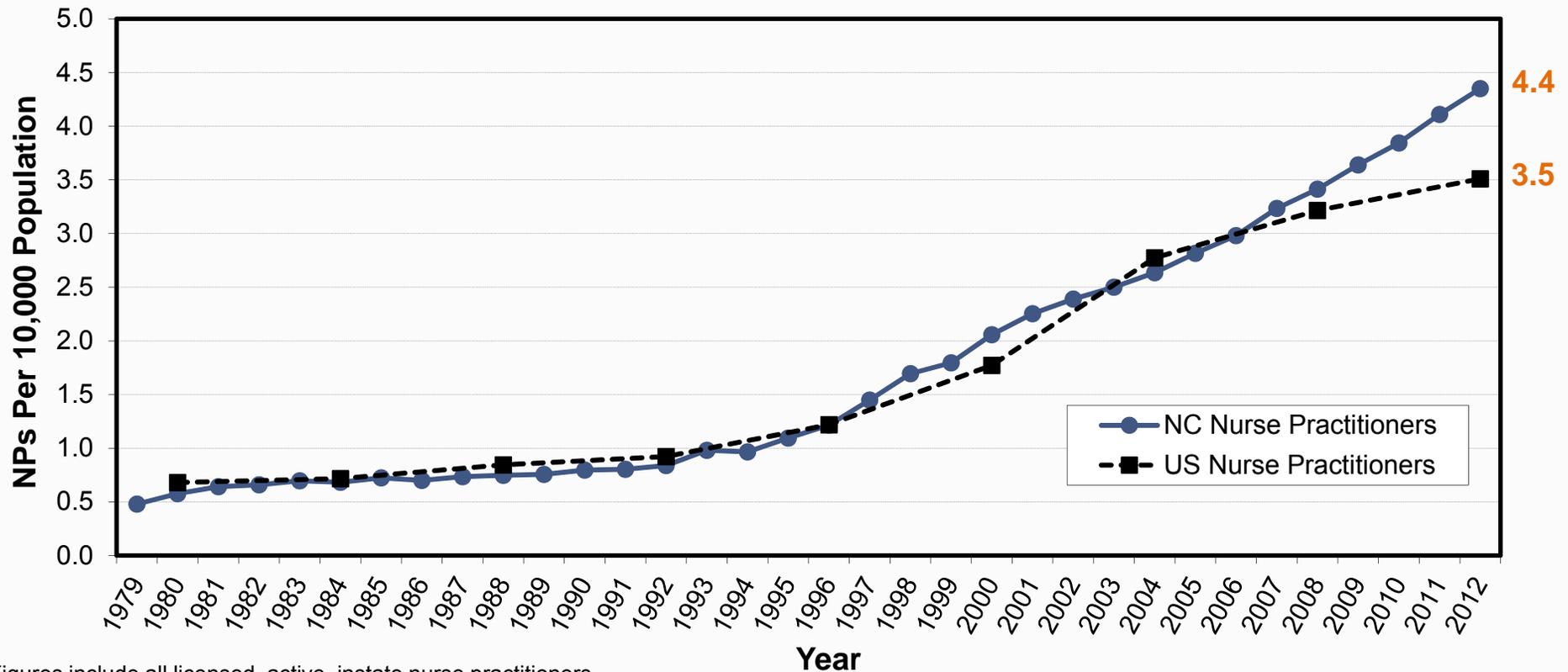
- Where do we get data on NPs in North Carolina?
- How many NPs are there and where are they?
- What are the demographic, education and practice characteristics of NPs?

Data Sources

- Data are from the North Carolina Board of Nursing initial and annual renewal forms
- Not a survey; full census of NPs in active practice in North Carolina in 2011
- Data collected annually and cleaned by staff at the North Carolina Health Professions Data System at the Cecil G. Sheps Center for Health Services Research, University of North Carolina at Chapel Hill

Supply of NPs in North Carolina outstripping US supply in recent years

Nurse Practitioners per 10,000 Population,
US and NC, 1979 to 2012

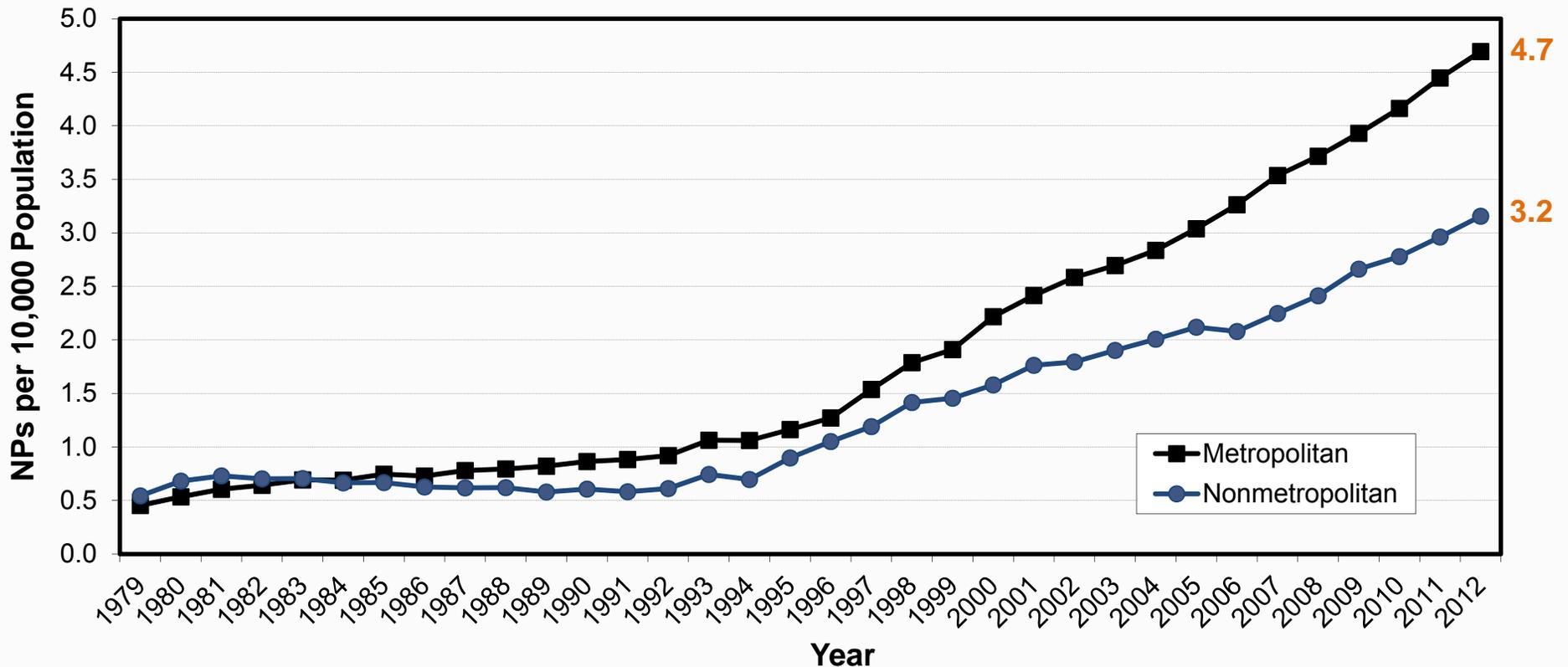


Figures include all licensed, active, instate nurse practitioners.

Sources: North Carolina Health Professions Data System, 1979 to 2012; The Registered Nurse Population- Findings from the National Sample Survey of Registered Nurses, 2008, 2004, 2000, 1996, 1992, 1988, 1984, 1980; North Carolina Office of State Planning; U.S. Bureau of the Census; North Carolina population data are smoothed figures based on 1980, 1990, 2000, and 2010 Censuses.

Supply increasing more rapidly in urban counties, but disparity not as large as other providers

Nurse Practitioners per 10,000 by Metropolitan and Nonmetropolitan Counties, North Carolina, 1979 to 2012

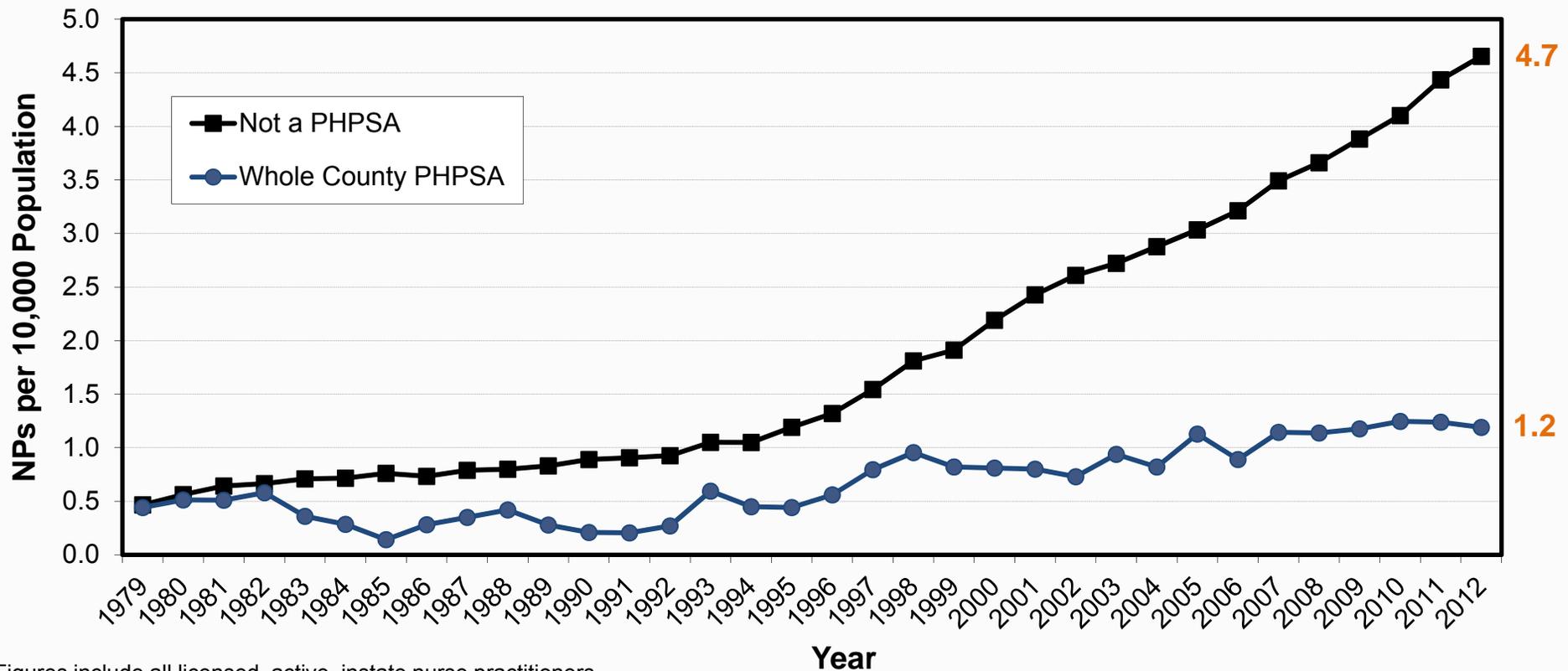


Figures include all licensed, active, in-state nurse practitioners.

Sources: North Carolina Health Professions Data System, 1979 to 2012; North Carolina Office of State Planning; US Census Bureau & Office of Management and Budget, 2009 and 2013. North Carolina population data are smoothed figures based on 1980, 1990, 2000, and 2010 Censuses.

Widening gap between well-supplied and shortage counties

Nurse Practitioners per 10,000 by Persistent Health Professional Shortage Area (PHPSA) Status, North Carolina, 1979 to 2012

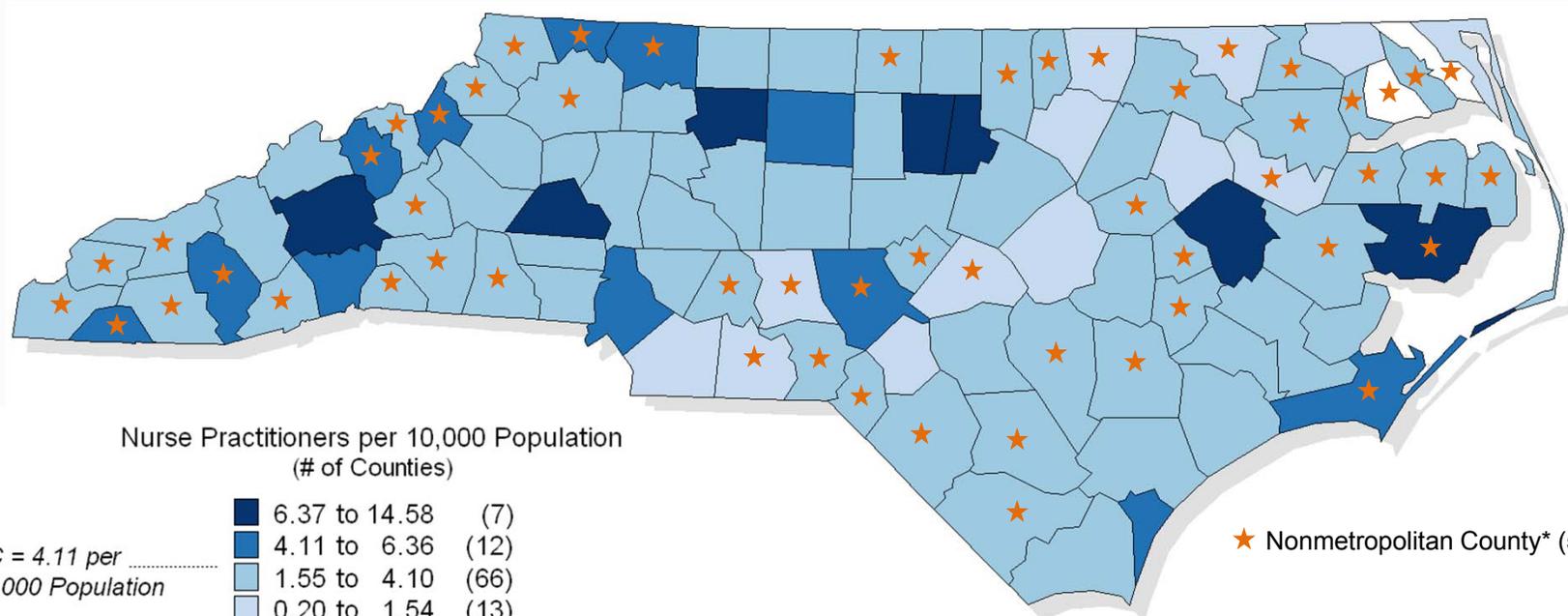


Figures include all licensed, active, in-state nurse practitioners.

Sources: North Carolina Health Professions Data System, 1979 to 2012; NC Office of State Planning; Area Resource File, HRSA, Department of Health and Human Services, 2000-2012. North Carolina population data are smoothed figures based on 1980, 1990, 2000, and 2010 Censuses. Persistent HPSAs are those designated as HPSAs by HRSA from 1999 through 2010. PHPSA calculations from 2011 onward completed using most recent 7 HPSA designations.

80% of counties below state ratio of NPs per 10,000 population; 2 counties have no NPs

Nurse Practitioners (NPs) per 10,000 Population North Carolina, 2011



N = 3,972

Note: Figure includes all active, instate nurse practitioners licensed in NC as of October 31, 2011; US Census Bureau and Office of Management and Budget, March 2013.*Note: "Core Based Statistical Area" (CBSA) is the OMB's collective term for Metropolitan and Micropolitan Statistical areas. Here, nonmetropolitan counties include micropolitan and counties outside of CBSAs.

Source: Source: North Carolina Health Professions Data System, with data derived from the North Carolina Board of Nursing, 2011.

Demographic Characteristics: NP Age, 2011

	Age	Number	Percent	
	<25	9	0.2%	
<45 1,921	25-29	260	7%	
	30-34	540	14%	
	35-39	565	14%	
	40-44	547	14%	
Average Age: 44.9 →	45-49	600	15%	
	50-54	617	16%	
	≥45 2,051	55-59	530	13%
		60-64	237	6%
		65 & over	67	2%
	Total	3,972	100%	

Sources: North Carolina Health Professions Data System with data derived from the North Carolina Board of Nursing, 2011.
Figures include all licensed, active, instate NPs licensed in NC as of October 31, 2011.

NPs predominantly white, female

Sex

	Number	Percent
Male	274	7%
Female	3,693	93%
Total	3,967	100%

Note: 5 NPs were missing sex data

Race

Race	Number	Percent
White, not Hispanic	3,172	82%
Black, not Hispanic	271	7%
American Indian/ Alaskan Native	37	1%
Hispanic	41	1%
Asian/Pacific Islander	54	1%
Other	29	1%
Multi-racial	14	0.4%
Total	3,618	100%

Note: 354 NPs were missing race data

Vast majority of NPs hold a MSN

Entry Degree

	Number	Percent
Diploma	391	10%
Associate	1099	29%
BSN	2255	59%
MSN	74	2%
Total	3819	100%
Diploma	391	10%
Associate	1099	29%
BSN	2255	59%
Total	3,738	100%

Note: 152 NPs were missing data on entry degree

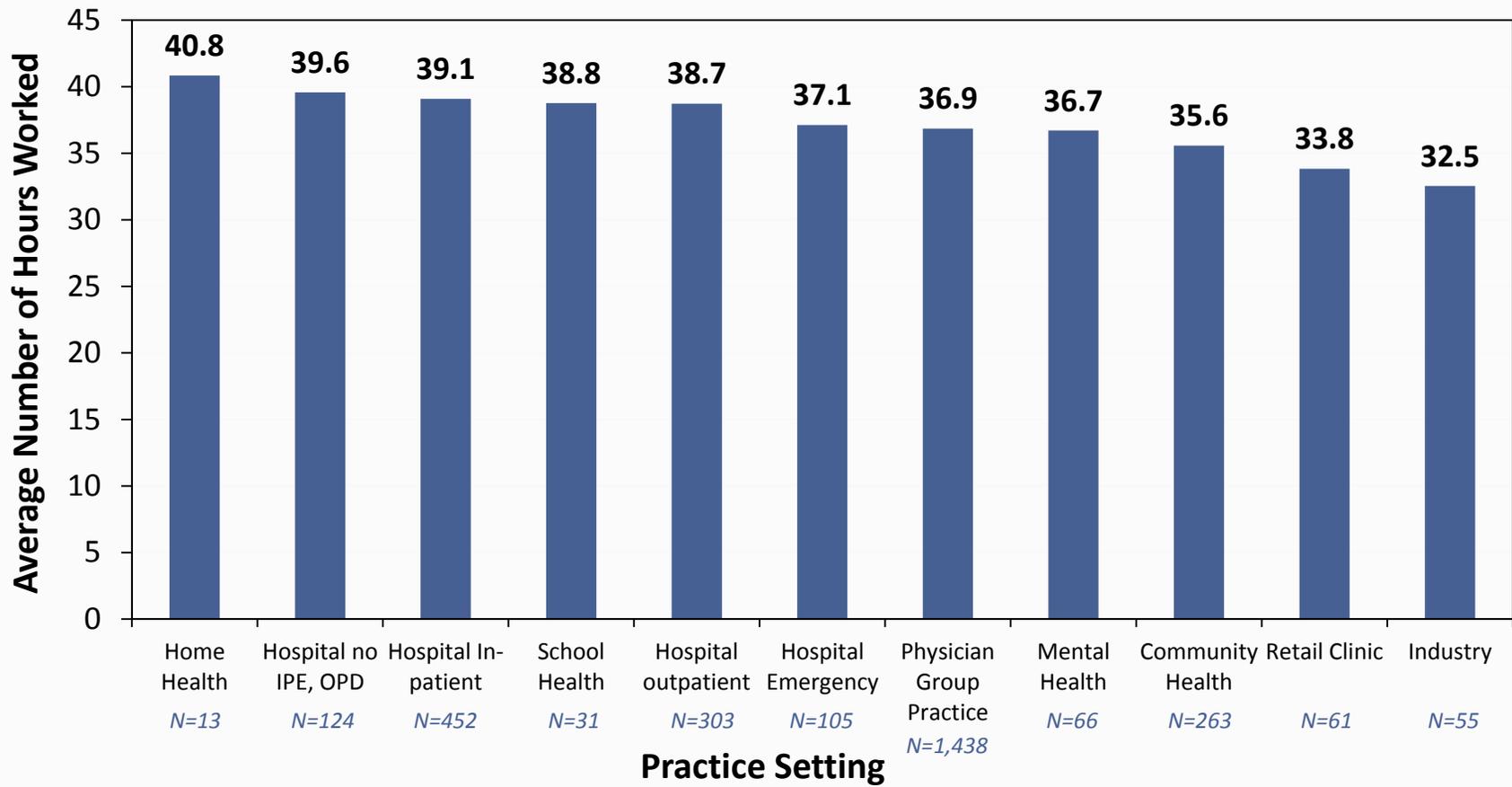
Highest Degree

	Number	Percent
Diploma	56	1%
Associate	65	2%
BSN	293	8%
Bacc. in other field	21	1%
MSN	3132	84%
Masters in other field	62	2%
Doctorate in nursing	78	2%
Doctorate in other field	31	1%
Total	3,738	100%

Note: 234 NPs were missing data on highest degree

Although average hours per week vary slightly by employment setting

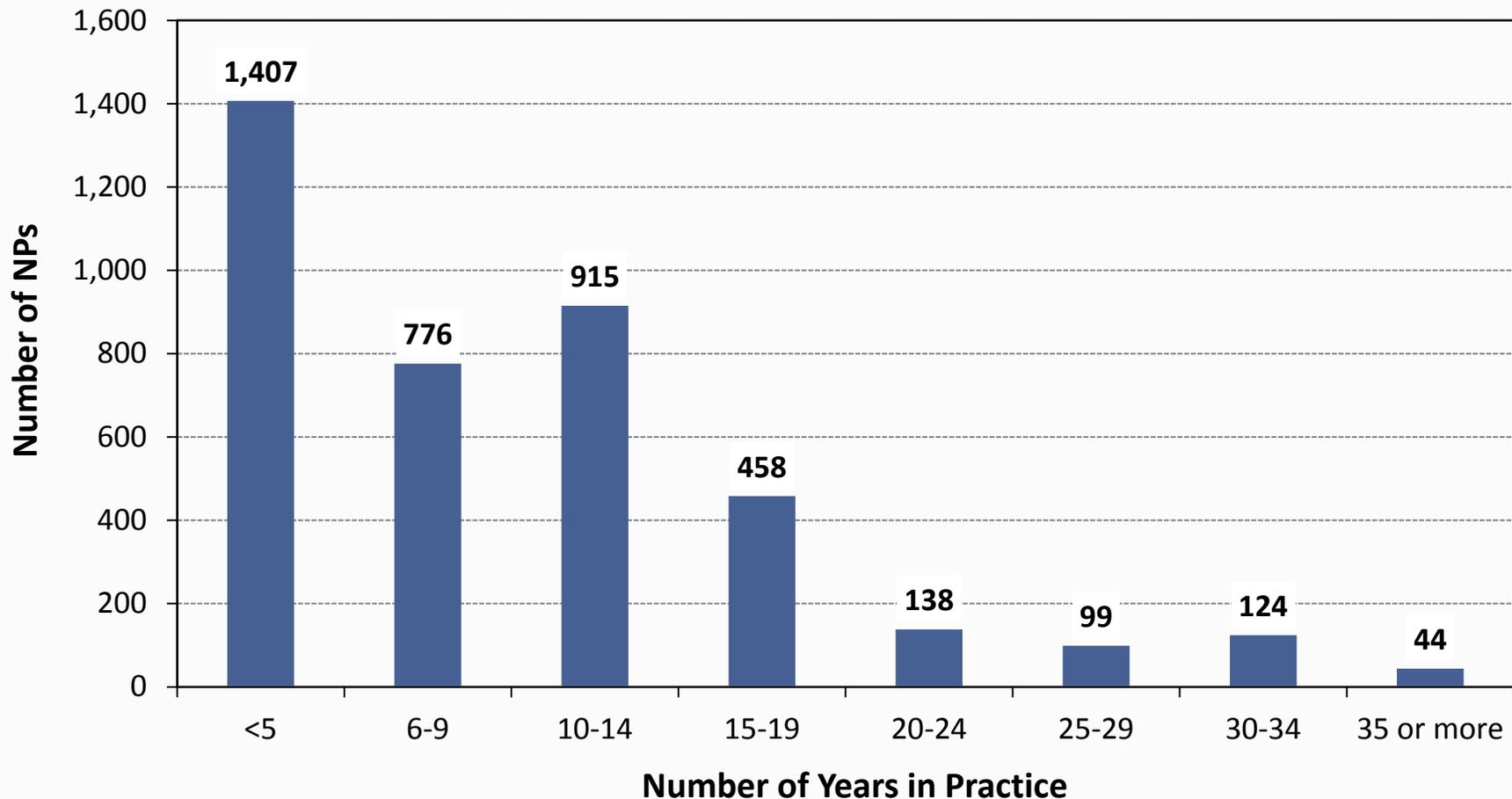
Average Hours per Week by Setting, NPs in North Carolina, 2011



Sources: North Carolina Health Professions Data System with data derived from the North Carolina Board of Nursing, 2011. Figures include all licensed, active, instate NPs licensed in NC as of October 31, 2011.

About one in three (36%) NPs are in practice for 5 or fewer years

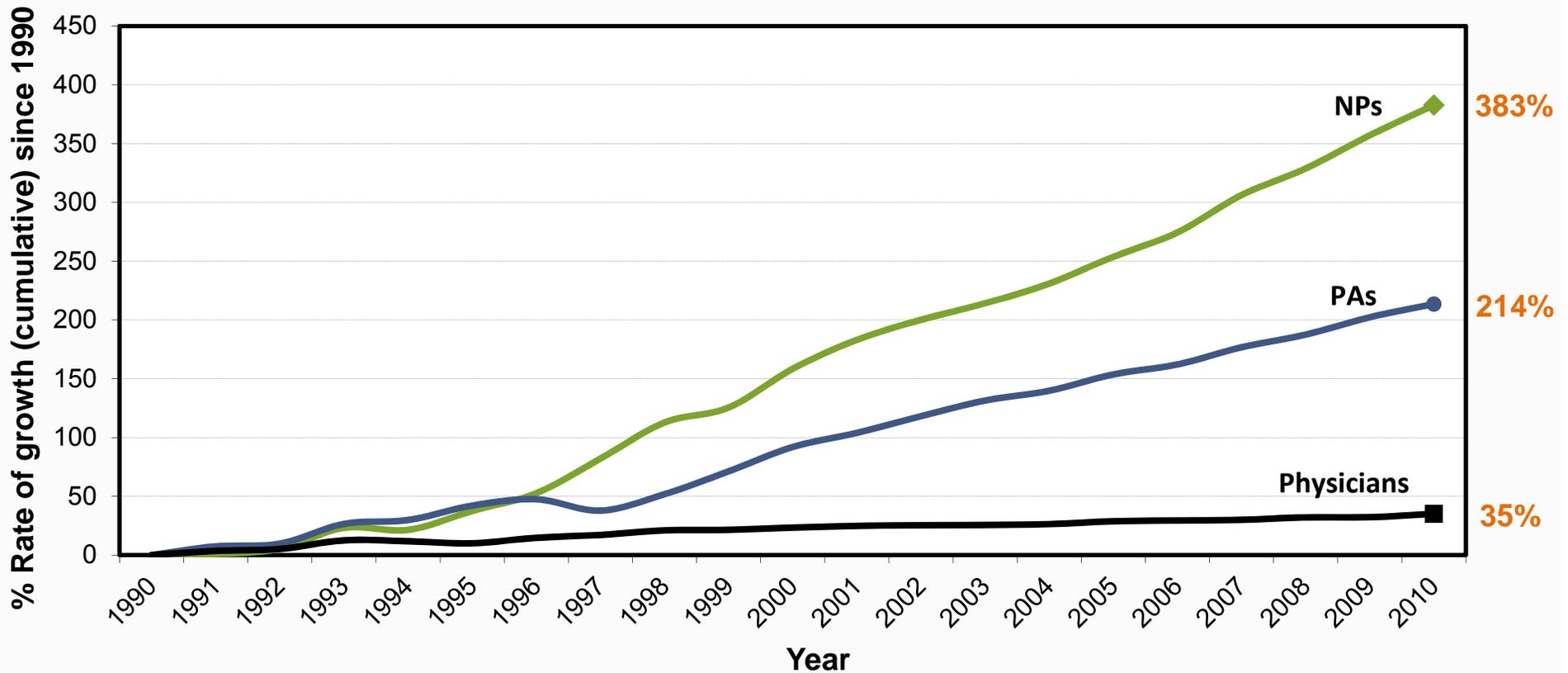
Years in Practice, North Carolina NPs, 2011



Sources: North Carolina Health Professions Data System with data derived from the North Carolina Board of Nursing, 2011.
Figures include all licensed, active, instate NPs licensed in NC as of October 31, 2011.

Are NPs and PAs the answer to emerging primary care workforce needs?

Cumulative rate of growth since 1990:
Physicians, NPs and PAs in North Carolina



Sources: North Carolina Health Professions Data System with data derived from the North Carolina Medical Board and North Carolina Board of Nursing, 1990 to 2010; Figures include all licensed, active, instate, non-federal, non-resident-in-training physicians, PAs and NPs.

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