THE U.S. HEALTH WORKFORCE – STATE PROFILES

PENNSYLVANIA

August 2014

U.S. Department of Health and Human Services
Health Resources and Services Administration
Bureau of Health Workforce
National Center for Health Workforce Analysis

The U.S. Health Workforce - State Profiles

Background

The U.S. Health Workforce - State Profiles (State Profiles) complement *The U.S. Health Workforce Chartbook* (Chartbook) by providing state-level data for each of the 35 health occupations included in the Chartbook. The data in the State Profiles correspond to Chartbook information on number of graduates in each profession, total number of providers, and number per capita. The Chartbook and State Profiles were developed as part of the Health Resources and Services Administration's effort to make data on the U.S. health workforce more readily available to diverse users.

Data Table Content

The data tables in the State Profiles are organized alphabetically for the 50 U.S. States. For each State, estimates are provided for the health workforce and 2010 graduates. Health workforce estimates include total number in an occupation, percent relative standard error (% RSE) of the estimate, and the ratio of individuals in each occupation per 100,000 working-age population. Total graduate data are also presented along with graduate-to-population ratios.

- Health workforce numbers are from HRSA's analysis of the U.S. Census Bureau, American Community Survey (ACS) Public Use Microdata Sample (PUMS), 2008-2010.
- The % RSE is a measure of statistical reliability based on sampling error. The % RSE is calculated by dividing the standard error by the estimate and multiplying the result by 100. Lower % RSEs (i.e. proportionately lower standard errors) indicate greater precision. % RSEs between 20 and 30 percent should be used with caution and % RSEs greater than 30 percent are not reported because they do not meet standards of reliability.
- The "working-age population" includes all individuals aged 16 and older employed in an occupation and individuals who are seeking employment.
- Workforce-to-population ratios are calculated using the total population figures from HRSA analysis of the ACS PUMS, 2008-2010. For nurse anesthetists, nurse-midwives, and nurse practitioners, the 2011-2012 Area Resource File and their workforce-to-population ratios are calculated using the Census Bureau 2010 Working-Age population.
- 2010 graduate numbers are from the U.S. Department of Education, National Center for Education Statistics Integrated Postsecondary Education Data System (IPEDS) for the 2009-2010 academic year. Details can be found in the Chartbook Technical Documentation. No IPEDS data were available for physical therapist aides; personal care aides; and nursing, psychiatric, and home health aides.
- Graduate-to-population ratios are calculated using the Census Bureau 2010 Working-Age population figures.

References, Resources and Additional Information

The U.S. Health Workforce Chartbook, released in November 2013, can be found at http://bhpr.hrsa.gov/healthworkforce/supplydemand/usworkforce/chartbook/index.html.

Details on the data sources, definitions, analysis, and other information provided in the State Profiles are available in *The U.S. Health Workforce Chartbook: Technical Documentation*, which can be found at http://bhpr.hrsa.gov/healthworkforce/supplydemand/usworkforce/chartbook/chartbookdocumentation.pdf.

For more information about the National Center, e-mail us at healthworkforcecenter@hrsa.gov, or visit our website at http://bhpr.hrsa.gov/healthworkforce/index.html.

Suggested citation: U.S. Department of Health and Human Services, Health Resources and Services Administration, National Center for Health Workforce Analysis. The U.S. Health Workforce – State Profiles, Rockville, Maryland; 2014.

	Pennsylvania				
	2008-2010 Health Workforce[a]			2010 Graduates[b]	
Occupation	**Total**	**% RSE[c]**	**Per 100K Working-age Population**	**Total**	**Per 100K Working-age Population**
Chiropractors	2,977	12.3	23.5	NA	NA
Counselors	19,173	5.3	151.4	198	1.6
Dental Assistants	9,023	7.5	71.3	NP	NP
Dental Hygienists	6,338	8.7	50.0	276	2.2
Dentists	7,229	7.9	57.1	360	2.8
Diagnostic Related Technologists and Technicians	14,306	5.6	113.0	845	6.6
Dietitians and Nutritionists	4,196	12.2	33.1	133	1.0
Emergency Medical Technicians and Paramedics	10,101	7.7	79.8	NP	NP
Health Diagnosing and Treating Practitioner Support Technologists and Technicians	25,349	5.0	200.2	826	6.5
Licensed Practical and Licensed Vocational Nurses	38,202	3.8	301.7	1,774	14.0
Massage Therapists	4,238	10.4	33.5	NP	NP
Medical and Clinical Laboratory Technologists and Technicians	17,742	5.7	140.1	195	1.5
Medical and Health Services Managers	26,247	4.1	207.3	689	5.4
Medical Assistants and Other Healthcare Support Occupations	37,983	3.2	300.0	NP	NP
Medical Records and Health Information Technicians	4,759	8.9	37.6	132	1.0
Medical Secretaries	40,542	2.7	320.2	NP	NP
Nurse Anesthetists[d]	2,703	NA	21.3	NP	NP
Nurse Practitioners[d]	4,365	NA	34.4	NP	NP
Nurse-Midwives[d]	512	NA	4.0	NP	NP
Nursing, Psychiatric, and Home Health Aides	116,013	2.2	916.2	NP	NP
Occupational Therapists	4,333	10.0	34.2	416	3.3
Opticians, Dispensing	2,843	12.1	22.4	NP	NP
Optometrists	1,637	15.5	12.9	159	1.2

	Pennsylvania				
	2008-2010 Health Workforce[a]			2010 Graduates[b]	
Occupation	**Total**	**% RSE[c]**	**Per 100K Working-age Population**	**Total**	**Per 100K Working-age Population**
Personal Care Aides	39,300	3.7	310.4	NP	NP
Pharmacists	13,859	5.8	109.4	854	6.7
Physical Therapist Assistants and Aides	3,704	12.5	29.2	NP	NP
Physical Therapists	9,981	7.6	78.8	818	6.4
Physician Assistants	4,960	11.3	39.2	772	6.1
Physicians	43,665	3.3	344.8	1,765	13.9
Psychologists	9,695	6.2	76.6	1,329	10.5
Registered Nurses	140,077	1.8	1,106.2	7,207	56.7
Respiratory Therapists	4,438	9.5	35.0	268	2.1
Social Workers	30,833	4.1	243.5	1,788	14.1
Speech-Language Pathologists	4,971	7.5	39.3	923	7.3
Veterinarians	3,713	12.4	29.3	112	0.9

[a]Health Workforce data are from Special Tabulations of the American Community Survey Public Use Microdata Sample, 2008-2010
[b]Graduate data are from Special Tabulations of the National Center for Education Statistics Integrated Postsecondary Education Data System, 2009-2010 Data. Degree award levels included in the count of graduates are specified in Part 5 of the U.S. Health Workforce Chartbook – Technical Documentation.
[c]% RSE (Percent Relative Standard Error) = ((Estimate/Standard Error)*100); Lower % RSEs (i.e. proportionately lower standard errors) indicate greater precision. % RSEs between 20 and 30 percent should be used with caution.
[d]Advanced Practice Nursing Workforce data are from the following source(s): Nurse Practitioners and Nurse Anesthetists data are from the Area Resource File 2011-2012 Access Database, tabulations of data from the National Provider Identification File and Nurse-Midwives data are from the Area Resource File 2011-2012 Access Database, tabulations of data from the American College of Nurse-Midwives.
NA: Data are not available for the selected state and occupation.
NR: Data not reported at the state-level because the RSE ≥ 30%; estimate does not meet standards of reliability.
NP: Graduate data is not presented because there is no clear educational pathway for this occupation.