The Health Resources and Services Administration (HRSA), U.S. Department of Health and Human Services (HHS), provides national leadership in the development, distribution, and retention of a diverse, culturally competent health workforce that can adapt to the population’s changing health care needs and provide the highest-quality care for all. The agency administers a wide range of training grants, scholarships, loans, and loan repayment programs that strengthen the health care workforce and respond to the evolving needs of the health care system.

The National Center for Health Workforce Analysis (the National Center) informs public and private-sector decision-making related to the health workforce by expanding and improving health workforce data, disseminating workforce data to the public, improving and updating projections of the supply and demand for health workers, and conducting analyses of issues important to the health workforce.

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.

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CONTENTS

Introduction ........................................................................................................................................... 1

Data Sources .......................................................................................................................................... 2

1.0 Behavioral Health ............................................................................................................................ 4
   1.1 Psychologists .................................................................................................................................... 4
   1.2 Counselors ...................................................................................................................................... 7
   1.3 Social Workers ............................................................................................................................... 10

2.0 Dietitians and Nutritionists ............................................................................................................. 13

3.0 Therapists – Allied Health ............................................................................................................. 16
   3.1 Physical Therapists ......................................................................................................................... 16
      3.1.1 Physical Therapist Assistants and Aides ................................................................................ 19
   3.2 Occupational Therapists ............................................................................................................... 22
   3.3 Respiratory Therapists .................................................................................................................. 25
   3.4 Speech-Language Pathologists .................................................................................................... 28
   3.5 Massage Therapists ...................................................................................................................... 31

FIGURES

Figure 1: Psychologists per 100,000 Working-Age Population by State ........................................... 4
Figure 2: Number of Psychologists by State ....................................................................................... 5
Figure 3: Distribution of Psychologists by Work Setting ...................................................................... 5
Figure 4: Distribution of Psychologists by Sex and Age ..................................................................... 6
Figure 5: Distribution of Psychologists by Race/Ethnicity, ................................................................. 6
Figure 6: Counselors per 100,000 Working-Age Population by State ................................................. 7
Figure 7: Number of Counselors by State ............................................................................................ 8
Figure 8: Distribution of Counselors by Work Setting ........................................................................ 8
Figure 9: Distribution of Counselors by Sex and Age ....................................................................... 9
Figure 10: Distribution of Counselors by Race/Ethnicity ................................................................. 9
Figure 11: Social Workers per 100,000 Working-Age Population by State ........................................ 10
Figure 12: Number of Social Workers by State .................................................................................. 11
Figure 13: Distribution of Social Workers by Work Setting ............................................................... 11
Figure 14: Distribution of Social Workers by Sex and Age ............................................................... 12
Figure 15: Distribution of Social Workers by Race/Ethnicity ............................................................ 12
Figure 16: Dietitians and Nutritionists per 100,000 Working-Age Population by State .................. 13
Figure 17: Number of Dietitians and Nutritionists by State ............................................................ 14
Figure 18: Distribution of Dietitians and Nutritionists by Work Setting ......................................... 14
Figure 19: Distribution of Dietitians and Nutritionists by Sex and Age ........................................... 15
Figure 20: Distribution of Dietitians and Nutritionists by Race/Ethnicity ......................................... 15
Figure 21: Physical Therapists per 100,000 Working-Age Population by State ............................... 16
Figure 22: Number of Physical Therapists by State .......................................................................... 17
Figure 23: Distribution of Physical Therapists by Work Setting ........................................................ 17
Figure 24: Distribution of Physical Therapists by Sex and Age ........................................................ 18
Figure 25: Distribution of Physical Therapists by Race/Ethnicity, .................................................... 18
### GENERAL LIST OF ACRONYMS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAPA</td>
<td>American Academy of Physician Assistants</td>
</tr>
<tr>
<td>ACNM</td>
<td>American College of Nurse-Midwives</td>
</tr>
<tr>
<td>ACS</td>
<td>American Community Survey</td>
</tr>
<tr>
<td>APRN</td>
<td>Advanced Practice Registered Nurse</td>
</tr>
<tr>
<td>ARF</td>
<td>Area Resource File</td>
</tr>
<tr>
<td>BHPPr</td>
<td>Bureau of Health Professions</td>
</tr>
<tr>
<td>BLS</td>
<td>Bureau of Labor Statistics</td>
</tr>
<tr>
<td>BSN</td>
<td>Bachelor of Science in Nursing</td>
</tr>
<tr>
<td>CDC</td>
<td>Centers for Disease Control and Prevention</td>
</tr>
<tr>
<td>CMS</td>
<td>Centers for Medicare &amp; Medicaid Services</td>
</tr>
<tr>
<td>EMT</td>
<td>Emergency Medical Technician</td>
</tr>
<tr>
<td>HHS</td>
<td>U.S. Department of Health and Human Services</td>
</tr>
<tr>
<td>HRSA</td>
<td>Health Resources and Services Administration</td>
</tr>
<tr>
<td>IPEDS</td>
<td>Integrated Postsecondary Education Data System</td>
</tr>
<tr>
<td>LPN</td>
<td>Licensed Practical and Licensed Vocational Nurse</td>
</tr>
<tr>
<td>NAICS</td>
<td>North American Industry Classification System</td>
</tr>
<tr>
<td>NCHWA</td>
<td>National Center for Health Workforce Analysis</td>
</tr>
<tr>
<td>NCLEX-PN®</td>
<td>National Counsel Licensure Examination for Practical Nurses</td>
</tr>
<tr>
<td>NCLEX-RN®</td>
<td>National Counsel Licensure Examination for Registered Nurses</td>
</tr>
<tr>
<td>NP</td>
<td>Nurse Practitioner</td>
</tr>
<tr>
<td>NPI</td>
<td>National Provider Identification</td>
</tr>
<tr>
<td>OT</td>
<td>Occupational therapy</td>
</tr>
<tr>
<td>PA</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>PA-C</td>
<td>Certified Physician Assistant</td>
</tr>
<tr>
<td>PUMS</td>
<td>Public Use Microdata Sample</td>
</tr>
<tr>
<td>RN</td>
<td>Registered Nurse</td>
</tr>
<tr>
<td>RSE</td>
<td>Relative standard error</td>
</tr>
<tr>
<td>SOC</td>
<td>Standard Occupational Classification</td>
</tr>
</tbody>
</table>
INTRODUCTION

The U.S. Health Workforce Chartbook provides extensive data on 35 health occupations and is part of the Health Resources and Services Administration’s (HRSA’s) effort to assist states, policymakers, local workforce planners, researchers, and the public in understanding the U.S. health workforce. The Chartbook may also be used as a baseline to track changes in the health workforce. While this Chartbook includes extensive data on supply, including comparative data by state, it does not include data on demand and, as such, does not address the adequacy of the supply.

The 35 occupations included in this Chartbook are classified based on the U.S. government’s Standard Occupational Classification (SOC) system and included more than 14 million individuals in 2010. These individuals represent approximately 10 percent of the nation’s workforce. The occupations included in this Chartbook also represent those with the largest current employment and those that are expected to grow substantially in the future.

The vast majority of workers are employed in what the U.S. Office of Management and Budget defines as the “health sector,” which includes health settings such as hospitals, clinics, physician offices, and nursing homes. The health sector also includes many workers in occupations that are not considered health occupations. For example, workers such as accountants or food service workers employed in hospitals are working in the health sector, even though they are not working in a health occupation. Individuals in health occupations may also work outside the health sector in settings such as local governments, schools, or insurance companies. The information provided in this Chartbook includes individuals in health occupations that are both within and outside the health sector.

For most occupations, the Chartbook relies on the U.S. Census Bureau’s ACS to estimate the total number of individuals in each occupation, their geographic distribution, the settings in which they work, and their demographic characteristics. The ACS, which uses self-reported data, is the most comprehensive source available for the broad range of occupations included in this report. This report also draws from the U.S. Department of Education’s Integrated Postsecondary Education System (IPEDS) to include information on the number of graduates from educational programs leading to entry into specific occupations. No graduate data are presented for occupations in which formal educational requirements are completed in institutions not reporting to IPEDS or vary substantially by state.

Some important components of the health workforce are not included or fully represented in the Chartbook because of data limitations. These components include occupations for which data are not collected or reported separately by the U.S. Census Bureau. For example, data from public health nurses are not collected separately from other types of nurses. The report also does

---

1HRSA analysis of the U.S. Census Bureau, American Community Survey (ACS) Public Use Microdata Sample (PUMS), 2008-2010.
2HRSA analysis of the U.S. Bureau of Labor Statistics (BLS), Employment Projections, 2010-2020. Note: The “workforce” is defined as individuals employed in the occupation and individuals whose last job was in the occupation and who are still seeking employment.
3Note: Self-reported data have limitations. Some individuals may report the occupation for which they are trained or licensed even when they are not currently working the majority of their time in that occupation. For example, a physician who is spending a majority of his/her time as an administrator may self-report as either a physician or an administrator. The ACS does not collect data on licensure or professional certification. See the Technical Documentation for additional details on ACS reporting and limitations.
not include important health occupations, because of the small size of the occupation, such as epidemiologists and other public-health oriented disciplines like laboratorians and environmental health professionals. In addition, some occupations in the Chartbook are limited by ACS occupational groupings because of the methods by which the ACS collects and reports SOC data. For example, although the SOC has two separate groupings for “medical and clinical laboratory technologists” and “medical and clinical laboratory technicians,” the ACS only reports on “medical and clinical laboratory technologists and technicians” as a single occupational grouping and does not report the two occupations separately.

The Chartbook is divided into four main parts for ease of reporting. Part I comprises clinicians. Part II presents additional clinician categories and occupations concerned with health care administration duties. Part III discusses health-related technologists and technicians as well as aides and assistants. Part IV describes behavioral and allied health occupations.

DATA SOURCES

Data for this Chartbook come primarily from two federal agencies: the U.S. Census Bureau and the U.S. Department of Education.

The U.S. Census Bureau’s American Community Survey (ACS): The ACS, a household survey, provides detailed self-reported data including demographic information (e.g., age, race, and sex data) on individuals working in the health occupations and is the major source of data for this report.

The U.S. Department of Education’s Integrated Postsecondary Education System (IPEDS): IPEDS data are used to measure the educational pipeline into the health occupations. IPEDS provides enrollment and graduation data on an annual basis for all institutions that receive or apply for federal funds. The number of graduates, by degree type, is presented for occupations for which there is a specific educational pathway into the occupation. No data are reported for those occupations without a distinct educational pathway.

Descriptions of the educational and training requirements for the various occupations have been obtained from the BLS, Occupational Outlook Handbook, 2012-13 Edition.

Also, data from HRSA’s Area Resource File (ARF) are included in this Chartbook. The ARF is a comprehensive, county-level source of health workforce and other health resources data. Included in the ARF are data from the American College of Nurse-Midwives (ACNM) and the Centers for Medicare & Medicaid Services’ National Provider Identification (NPI) file. The NPI file contains data on health professionals that require unique identification for federal billing (e.g., Medicare and Medicaid), private insurance, and other purposes. In this report, NPI data in the ARF have been used for cases in which ACS data were not available (i.e., nurse practitioners and nurse anesthetists).

Details on the data sources, definitions and analysis, and other information provided in the Chartbook are available in the The U.S. Health Workforce Chartbook: Technical Documentation, which can be found at http://bhpr.hrsa.gov/healthworkforce/index.html. Also, more detailed information on the work settings used in this report can be found on the U.S. Census Bureau website at www.census.gov/eos/www/naics.
The following table lists each of the selected occupations in Part IV of *The U.S. Health Workforce Chartbook* along with the associated total workforce estimates from the ACS.

### Part IV: Behavioral and Allied Health

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Total Workforce[^4]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.0 Behavioral Health</strong></td>
<td></td>
</tr>
<tr>
<td>1.1 Psychologists</td>
<td>188,708</td>
</tr>
<tr>
<td>1.2 Counselors</td>
<td>295,263</td>
</tr>
<tr>
<td>1.3 Social Workers</td>
<td>517,628</td>
</tr>
<tr>
<td><strong>2.0 Dietitians and Nutritionists</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>92,779</td>
</tr>
<tr>
<td><strong>3.0 Therapists – Allied Health</strong></td>
<td></td>
</tr>
<tr>
<td>3.1 Physical Therapists</td>
<td>188,986</td>
</tr>
<tr>
<td>3.1.1 Physical Therapist Assistants and Aides</td>
<td>70,905</td>
</tr>
<tr>
<td>3.2 Occupational Therapists</td>
<td>86,728</td>
</tr>
<tr>
<td>3.3 Respiratory Therapists</td>
<td>102,117</td>
</tr>
<tr>
<td>3.4 Speech-Language Pathologists</td>
<td>121,963</td>
</tr>
<tr>
<td>3.5 Massage Therapists</td>
<td>139,215</td>
</tr>
</tbody>
</table>

[^4]: Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.
1.0 BEHAVIORAL HEALTH

A variety of occupations provide behavioral health services for which data are not readily available. In the ACS, some of these occupations are included among larger occupational groupings. For example, psychiatrists are reported under physicians, and psychiatric nurses are reported among registered nurses.

The Behavioral Health occupations described in this section include:

1.1 Psychologists;
1.2 Counselors; and
1.3 Social Workers.

1.1 Psychologists

- An estimated 188,708 individuals in the U.S. workforce reported their occupation as psychologist.\(^5\)
- The typical entry-level education for psychologists is a master’s or doctoral degree.\(^6\)

Current Distribution

![Psychologists per 100,000 Working-Age Population, by State](chart)

**Figure 1: Psychologists per 100,000 Working-Age Population, by State**

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.

*Note: Estimated ratios in states with a relative standard error (RSE) > 20% should be used with caution because of large sampling error.**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

\(^5\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.

Figure 2: Number of Psychologists, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 3: Distribution of Psychologists, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
**Figure 4: Distribution of Psychologists, by Sex and Age**

- Male: 32.1%
- Female: 67.9%

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.

**Figure 5: Distribution of Psychologists, by Race/Ethnicity, Relative to the Working-Age Population**

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>U.S. Population 16 and Older</th>
<th>Psychologists</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (Non-Hispanic)</td>
<td>66.9%</td>
<td>84.7%</td>
</tr>
<tr>
<td>Black/African American (Non-Hispanic)</td>
<td>11.8%</td>
<td>5.0%</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>14.2%</td>
<td>5.9%</td>
</tr>
<tr>
<td>Asian/Native Hawaiian/Pacific Islander (Non-Hispanic)</td>
<td>4.9%</td>
<td>2.8%</td>
</tr>
<tr>
<td>American Indian/Alaska Native (Non-Hispanic)</td>
<td>0.6%</td>
<td>0.3%*</td>
</tr>
<tr>
<td>Multiple/Other Race (Non-Hispanic)</td>
<td>1.5%</td>
<td>1.3%</td>
</tr>
</tbody>
</table>

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.
*Note: 20% < RSE < 30%; use estimate with caution because of large sampling error.

**Graduates**

The total number of post-secondary psychology graduates at the master’s and doctoral levels in the 2009 to 2010 academic year was 24,345. Of these, 80.5 percent of psychology graduates received a master’s degree, and 19.5 percent of psychology graduates received a doctoral degree.7

---

7HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
1.2 Counselors

- An estimated 295,263 individuals in the U.S. workforce reported their occupation as counselor.\(^8\)
- The typical entry-level education required for counselors is a master’s degree.\(^9\)

Current Distribution

**Figure 6: Counselors per 100,000 Working-Age Population, by State**

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.

*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.

**Data are not reported at the state level, because the RSE \(\geq\) 30%; estimate does not meet standards of reliability.

---

\(^8\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010. Note: The ACS estimate reflects counselors who are working in the North American Industry Classification System (NAICS) codes for health and individual and family services settings.

Figure 7: Number of Counselors, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 8: Distribution of Counselors, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Graduates

The total number of post-secondary counseling graduates at the bachelor’s and master’s levels in the 2009 to 2010 academic year was 6,641.\textsuperscript{10} Of these, 8.4 percent of counseling graduates received a bachelor’s degree, and 91.6 percent of counseling graduates received a master’s degree.\textsuperscript{11}

\begin{flushleft}
\textsuperscript{10}HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
\textsuperscript{11}HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
\end{flushleft}
1.3 Social Workers

- An estimated 517,628 individuals in the U.S. workforce reported their occupation as social worker.\(^\text{12}\)
- The typical entry-level education for social workers is a bachelor’s or master’s degree.\(^\text{13}\)

Current Distribution

**Figure 11: Social Workers per 100,000 Working-Age Population, by State**

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.

*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.

---

\(^\text{12}\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010. Note: The ACS estimate reflects social workers who are working in the NAICS codes for health and individual and family services settings.

Figure 12: Number of Social Workers, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.

Figure 13: Distribution of Social Workers, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Figure 14: Distribution of Social Workers, by Sex and Age

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.

Figure 15: Distribution of Social Workers, by Race/Ethnicity, Relative to the Working-Age Population

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.

Graduates
The total number of post-secondary social worker graduates at the bachelor’s and master’s levels in the 2009 to 2010 academic year was 35,955. Of these, 43.4 percent of social worker graduates received a bachelor’s degree, and 56.6 percent of social worker graduates received a master’s degree.14

14HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
2.0 DIETITIANS AND NUTRITIONISTS

- An estimated 92,779 individuals in the U.S. workforce reported their occupation as dietitian or nutritionist.\(^{15}\)
- The required education for dietitians and nutritionists is a bachelor’s degree.\(^{16}\)

Current Distribution

Figure 16: Dietitians and Nutritionists per 100,000 Working-Age Population, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.

*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.

**Data are not reported at the state level, because the RSE \(\geq\) 30%; estimate does not meet standards of reliability.

\(^{15}\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.

Figure 17: Number of Dietitians and Nutritionists, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 18: Distribution of Dietitians and Nutritionists, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Figure 19: Distribution of Dietitians and Nutritionists, by Sex and Age

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.
Note: Percentages may not total 100, because of rounding.

Figure 20: Distribution of Dietitians and Nutritionists, by Race/Ethnicity, Relative to the Working-Age Population

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: 20% ≤ RSE < 30%; estimate should be used with caution because of large sampling error.
Note: Percentages may not total 100, because of rounding.

Graduates
The total number of post-secondary dietetic and nutrition graduates at the bachelor’s level in the 2009 to 2010 academic year was 2,601.17

17HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
3.0 THERAPISTS – ALLIED HEALTH

Allied health occupations and professional groups described in this section include:

3.1 Physical Therapists;
3.2 Occupational Therapists;
3.3 Respiratory Therapists;
3.4 Speech-Language Pathologists; and
3.5 Massage Therapists.

3.1 Physical Therapists

- An estimated 188,986 individuals in the U.S. workforce reported their occupation as physical therapist.\textsuperscript{18}
- The required education for physical therapists is a doctoral degree.\textsuperscript{19}

Current Distribution

Figure 21: Physical Therapists per 100,000 Working-Age Population, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

\textsuperscript{18}Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.
Figure 22: Number of Physical Therapists, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 23: Distribution of Physical Therapists, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.
Figure 24: Distribution of Physical Therapists, by Sex and Age

![Chart showing distribution of Physical Therapists by sex and age.]

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.
Note: Percentages may not total 100, because of rounding.

Figure 25: Distribution of Physical Therapists, by Race/Ethnicity, Relative to the Working-Age Population

![Chart showing distribution of Physical Therapists by race/ethnicity.]

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: 20% ≤ RSE < 30%; estimate should be used with caution because of large sampling error.
Note: Percentages may not total 100, because of rounding.

Graduates
The total number of post-secondary physical therapy (PT) graduates at the master’s and doctoral levels in the 2009 to 2010 academic year was 8,948. Of these, 9.7 percent of PT graduates received a master’s degree, and 90.3 percent of PT graduates received a doctoral degree.20

---
20HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
3.1.1 Physical Therapist Assistants and Aides

- An estimated 70,905 individuals in the U.S. workforce reported their occupation as physical therapist assistant or aide.\textsuperscript{21}
- The required education for physical therapist assistants is an associate’s degree; for aides it is a high school diploma or equivalent.\textsuperscript{22}

Current Distribution

Figure 26: Physical Therapist Assistants and Aides per 100,000 Working-Age Population, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE $\geq 30$%; estimate does not meet standards of reliability.

\textsuperscript{21}Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.
Figure 27: Number of Physical Therapist Assistants and Aides, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 28: Distribution of Physical Therapist Assistants and Aides, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Figure 29: Distribution of Physical Therapist Assistants and Aides, by Sex and Age

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.

Figure 30: Distribution of Physical Therapist Assistants and Aides, by Race/Ethnicity, Relative to the Working-Age Population

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.
*Note: RSE ≥ 30%; estimate does not meet standards of reliability.
**20% ≤ RSE < 30%; estimate should be used with caution because of large sampling error.
3.2 Occupational Therapists

- An estimated 86,728 individuals in the U.S. workforce reported their occupation as occupational therapist.\(^{23}\)
- The typical entry-level education for occupational therapists is a master’s degree.\(^{24}\)

Current Distribution

**Figure 31: Occupational Therapists per 100,000 Working-Age Population, by State**

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

---

\(^{23}\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.

Figure 32: Number of Occupational Therapists, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 33: Distribution of Occupational Therapists, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Figure 34: Distribution of Occupational Therapists, by Sex and Age

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.

Figure 35: Distribution of Occupational Therapists, by Race/Ethnicity, Relative to the Working-Age Population

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.
*Note: RSE ≥ 30%; estimate does not meet standards of reliability.
**20% < RSE < 30%; estimate should be used with caution because of large sampling error.

Graduates
The total number of post-secondary occupational therapy (OT) graduates at the bachelor’s and master’s levels in the 2009 to 2010 academic year was 4,983. Of these, 14.6 percent of OT graduates received a bachelor’s degree, and 85.4 percent of OT graduates received a master’s degree.25

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25HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
3.3 Respiratory Therapists

- An estimated 102,117 individuals in the U.S. workforce reported their occupation as respiratory therapist.\(^{26}\)
- The required education for respiratory therapists is an associate’s degree.\(^{27}\)

Current Distribution

**Figure 36: Respiratory Therapists per 100,000 Working-Age Population, by State**

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.

*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.

**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

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\(^{26}\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.

Figure 37: Number of Respiratory Therapists, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 38: Distribution of Respiratory Therapists, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Figure 39: Distribution of Respiratory Therapists, by Sex and Age

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.

Figure 40: Distribution of Respiratory Therapists, by Race/Ethnicity, Relative to the Working-Age Population

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.
*Note: RSE ≥ 30%; estimate does not meet standards of reliability.

Graduates
The total number of post-secondary respiratory therapy graduates at the associate’s and bachelor’s levels in the 2009 to 2010 academic year was 7,510. Of these, 88.7 percent of respiratory therapy graduates received an associate’s degree, and 11.3 percent of respiratory therapy graduates received a bachelor’s degree.28

28HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
3.4 Speech-Language Pathologists

- An estimated 121,963 individuals in the U.S. workforce reported their occupation as speech-language pathologist.\(^{29}\)
- The typical entry-level education for speech-language pathologists is a bachelor’s or master’s degree.\(^{30}\)

Current Distribution

**Figure 41: Speech-Language Pathologists per 100,000 Working-Age Population, by State**

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

\(^{29}\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.
Figure 42: Number of Speech-Language Pathologists, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 43: Distribution of Speech-Language Pathologists, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
**Figure 44:** Distribution of Speech-Language Pathologists, by Sex and Age

<table>
<thead>
<tr>
<th>Sex</th>
<th>0.0%</th>
<th>20.0%</th>
<th>40.0%</th>
<th>60.0%</th>
<th>80.0%</th>
<th>100.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>3.9%</td>
<td>4.4%</td>
<td>4.9%</td>
<td>5.0%</td>
<td>5.6%</td>
<td>6.0%</td>
</tr>
<tr>
<td>Female</td>
<td>96.1%</td>
<td>95.6%</td>
<td>95.1%</td>
<td>94.4%</td>
<td>93.9%</td>
<td>93.9%</td>
</tr>
</tbody>
</table>

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.

**Figure 45:** Distribution of Speech-Language Pathologists, by Race/Ethnicity, Relative to the Working-Age Population

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>0.0%</th>
<th>20.0%</th>
<th>40.0%</th>
<th>60.0%</th>
<th>80.0%</th>
<th>100.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (Non-Hispanic)</td>
<td>66.9%</td>
<td>87.6%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black/African American (Non-Hispanic)</td>
<td>11.8%</td>
<td>4.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>14.2%</td>
<td>5.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asian/Native Hawaiian/Pacific Islander (Non-Hispanic)</td>
<td>4.9%</td>
<td>1.9%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian/Alaska Native (Non-Hispanic)</td>
<td>0.6%</td>
<td>1.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple/Other Race (Non-Hispanic)</td>
<td>1.5%</td>
<td>1.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.
*Note: RSE ≥ 30%; estimate does not meet standards of reliability.

**Graduates**

The total number of post-secondary speech-language pathology graduates at the bachelor’s and master’s levels in the 2009 to 2010 academic year was 14,161. Of these, 56.4 percent of speech-language pathology graduates received a bachelor’s degree, and 43.6 percent of speech-language pathology graduates received a master’s degree.\(^{31}\)

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\(^{31}\) HRSA analysis of the National Center for Education Statistics IPEDS, 2009-2010.
3.5 Massage Therapists

- An estimated 139,215 individuals in the U.S. workforce reported their occupation as massage therapist.\(^{32}\)
- The typical entry-level education for massage therapists is a post-secondary non-degree award.\(^{33}\)

Current Distribution

Figure 46: Massage Therapists per 100,000 Working-Age Population, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimated ratios in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE \(\geq\) 30%; estimate does not meet standards of reliability.

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\(^{32}\)Total workforce from HRSA analysis of the ACS PUMS, 2008-2010.
Figure 47: Number of Massage Therapists, by State

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
*Note: Estimates in states with an RSE > 20% should be used with caution because of large sampling error.
**Data are not reported at the state level, because the RSE ≥ 30%; estimate does not meet standards of reliability.

Figure 48: Distribution of Massage Therapists, by Work Setting

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Figure 49: Distribution of Massage Therapists, by Sex and Age

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: The “Health Care Workforce” in this figure refers to the health occupations covered in this report.
Note: Percentages may not total 100, because of rounding.

Figure 50: Distribution of Massage Therapists, by Race/Ethnicity, Relative to the Working-Age Population

Data Source: HRSA analysis of the ACS PUMS, 2008-2010.
Note: Percentages may not total 100, because of rounding.
*Note: 20% ≤ RSE < 30%; estimate should be used with caution because of large sampling error.