

health bullets

Health Workforce Averages and Trends

I. The Big Picture

- Nationally, approximately 9-10% of employed persons work in the health care industry, with numbers projected to rise higher in the future.
 - Fully 9 out of the 20 fastest growing occupations in the U.S. are in health care, with a 28.8% growth rate projected between 2002-2012, contrasted to a 13.8% growth rate for non-health care jobs.¹
 - Arizona shows similar growth, though the state remains below the national averages:
 - In 1970, approximately 23,000 people in the state worked in health care, which represented 4.1% of total jobs. In 2003, about 200,000 Arizonans worked in health care, or 8% of jobs. This puts Arizona well below the average in percentage of persons working in health care.²
 - In the 1988-2000 period, employment in the Arizona health care sector grew 58%, while the population grew 46%, resulting in a net per capital growth rate of 8% significantly lower than the national per capital growth rate of 21%.
 - According to the Arizona Board of Regents, a total of 10% of state wages, or \$2 billion, was generated through health care jobs in 2002.³
 - Roughly 42% of Arizona health care workers are employed in ambulatory health services (physician offices, outpatient clinics, etc.), 37% are employed by hospitals and 21% in the long-term care sector.⁴
 - Ethnic minorities continue to be under-represented in many health professions in Arizona, especially among physicians. In 1998 just 6% of active practitioners were Hispanic at a time when Hispanics represented 22% of the general population.⁵
- The growing bioscience industry presents a challenge to the health services sector, with demand for new hires anticipated to equal 20% of the current employment level in Arizona or 1,200 new jobs over the next two years. Like clinical professions, bioscience positions generate demand for postsecondary education, particularly in the areas of lab/research technicians, manufacturing and production.⁶
- Continued high turnover rates exacerbate the demand for health care workers. Industry-wide turnover rates increased from 8% in 2001 to 11% in 2003, from a low of 6% among Physician Assistants to a high of 39% among Nursing Aides. Occupations with some of the highest turnover rates (Nursing Aides, Phlebotomists, Registered Nurses) also have some of the highest rates of projected future demand.⁷

II. Physicians

- In 2000, Arizona ranked 33rd among states in physicians per capita, with 172 physicians per 100,000 population compared to a national average of 198.⁸
 - For primary care physicians, Arizona reported 61 per 100,000 population, compared to a national average of 69.
- Close to one-half of all physicians trained in Arizona 47.7% were practicing in the state in 1999-2000. However, this group represented just 14.7% of *all* physicians practicing in the state.⁹
- The number of licensed, active allopathic physicians (MDs) increased by 8.3% (720) between 1997-2004, while the number of osteopathic physicians (DOs) increased 41% (522) in the 1993-2004 time period.¹⁰ Meanwhile, the state's population grew 26.5% in the same time period (1,208,000 projected).
- Arizona's medical profession is growing older:
 - In 1996, 50% of active MDs were 45 years of age or younger, compared to 39% in 2003.
 - DOs follow a similar trend, with physicians under the age of 45 falling from 57% of the total in 1992 to 46% in 2003.¹¹
 - In 1998, Arizona ranked 5th and 2nd respectively among the states in percent of active physicians 55 and older; and 65 and older.¹²
- The number of physician residents per capita declined 6.2% between 1989-1999, compared to national increase of 3.9% in the same period.¹³
 - Less than one-fifth of allopathic residents in Arizona (17.3%, 2001) are from in-state medical schools.¹⁴

III. Nurses

- There is a shortage of nurses in Arizona compared to national averages:
 - In 2000, there were 628 nurses per 100,000 population in Arizona, compared to a national average of 782.¹⁵
 - Arizona's reported nurse vacancy rate is 26%, which is significantly higher than the national rate of 15%.¹⁶
- Arizona nurses are older than the national average (46.8 years compared to 42 years nationally) and in 2001 had a higher annual turnover rate (26.7% compared to 15% nationally).¹⁷ The Arizona Hospital and Healthcare Association reports that the turnover rate decreased to 15% in 2003.
- Employment in nursing grew 17% in the 1994-2002 period, but wage growth remained flat. The exception was 2002, when real wages grew 5%, primarily in hospitals, where the wage growth for nurses was approximately twice the rate of non-hospital settings.¹⁸
 - Practically all employment gains in nursing were due to the recruitment of foreign-born RNs and nurses over the age of 50 returning to the workforce.¹⁹

- Comparative Arizona statistics for selected nursing specialties (2000):²⁰
 - The per capita number of Nurse Practitioners in Arizona is 41.1 per 100,000 population, higher than the national rate of 33.7.
 - The number of certified Nurse Midwives is 40% higher per capita than the national average.
 - The number of Nurse Anesthetists is lower 3.3 per 100,000 compared to 9.3 nationally.
- In 2002, the Arizona Legislature passed SB 1260 calling for the state's educational institutions to double the capacity of nursing education programs by 2007. In response, a coalition of groups have developed a five-year, \$126 million plan to meet the requirements of the legislation.

IV. Other Selected Health Occupations²¹

- Arizona ranked just below the median when compared to national rates for psychiatrists, psychologists and social workers.
- Arizona ranked 41st in the nation in the number of dentists per capita 44 per 100,000 compared to 63.6 nationally. Dental assistant rates mirrored those of dentists, while the number of dental hygienists was higher than the national rate.
- With just 2,150 pharmacists in 2000, Arizona ranked 50th in the nation in the number of pharmacists per capita.
- Conversely, Arizona ranked 3rd in the nation in the number of chiropractors, and 6th in the percent of health employment in offices and clinics.²²

V. Informal Caregivers

- Informal caregivers family, friends, volunteers supplement the health care workforce and provide the majority of long-term care services in the U.S.
 - In 2003, there were approximately 27 million unpaid, informal caregivers in the U.S., accounting for a market value of \$257 billion in hours of care provided.
 - In Arizona, an estimated 490,000 caregivers provided a total of 523 million hours of care in 2003 with an estimated annual market value of \$4.6 billion.²³

- 1 See Carol Lockhart, *Controlling the Curve: Health Workforce Regulation in Arizona*, St. Luke's Health Initiatives, Oct. 2004, for documentation and a listing of the fastest growing health occupations. www.slhi.org.
- 2 Current employment statistics, Arizona Dept. of Economic Security, August 2004. These numbers likely understate the actual number of persons employed in health care, due to definitional issues.
- 3 Arizona Board of Regents, The Economic Impact of Arizona's Health Care Industry: Report to the Governor's Task Force on Nursing, Feb. 18, 2003.
- 4 State Health Workforce Profiles 2000. U.S. Department of Health and Human Services, Health Resources and Services Administration, Bureau of Health Professions, http://bhpr.hrsa.gov.
- 5 Ibid.
- 6 Battelle Bioscience Workforce Needs Assessment (2003). Maricopa Community Colleges, Center for Workforce Development, www.maricopa.edu/workforce.
- 7 2003 Industry Cluster Summary: Healthcare. Maricopa Community Colleges, Center for Workforce Development. www.maricopa.edu/workforce.
- 8 State Health Workforce Profiles, op. cit.
- 9 The Healthcare Workforce in Eight States: Education, Practice and Policy Arizona. http://bhpr.hrsa.gov/healthworkforce/reports/stateso4/arizona.htm.

- 10 Preliminary data (unpublished), July 2004, Arizona Medical Education Consortium, Arizona State University, W.P Carey School of Business.
- 11 Ibid.
- 12 Boom or Bust: The Future of the Healthcare Workforce in Arizona, St. Luke's Health Initiatives, Spring 2002.
- 13 Ibid.
- 14 The Healthcare Workforce in Eight States, op. cit.
- 15 State Health Workforce Profiles, 2000. op. cit.
- 16 The Healthcare Workforce in Eight States, op. cit.
- 17 Boom or Bust, op. cit.
- 18 Peter Buerhaus, et. al., "Is the Current Shortage of Hospital Nurses Ending?" *Health Affairs* 2003, 22 (6), pp. 191-198.
- 19 Ibid.
- 20 State Health Workforce Profiles, 2000, op. cit.
- 21 Ibid.
- 22 Boom or Bust, op. cit.
- 23 Peter Arno, Prevalence and Economic Value of Family Caregiving: A State by State Analysis. www.nfcacares.org.

St. Luke's Health Initiatives A Catalyst for Community Health

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To improve the health of people and their communities in Arizona, with an emphasis on helping people in need and building the capacity of communities to help themselves.

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2375 E Camelback Rd Suite 200 Phoenix Arizona 85016

www.slhi.org info@slhi.org

602.385.6500 602.385.6510 fax