

Physician Workforce Supply and Demand in Nevada

John Packham, PhD

Office of Statewide Initiatives

University of Nevada, Reno School of Medicine

October 3, 2017



University of Nevada, Reno
School of Medicine

Overview

- Health workforce demand and supply in Nevada
- Recent GME completion and retention trends in Nevada
- Current physician workforce supply by specialty and county in Nevada and the US

Forces Driving Physician Workforce Demand

Primary Factors

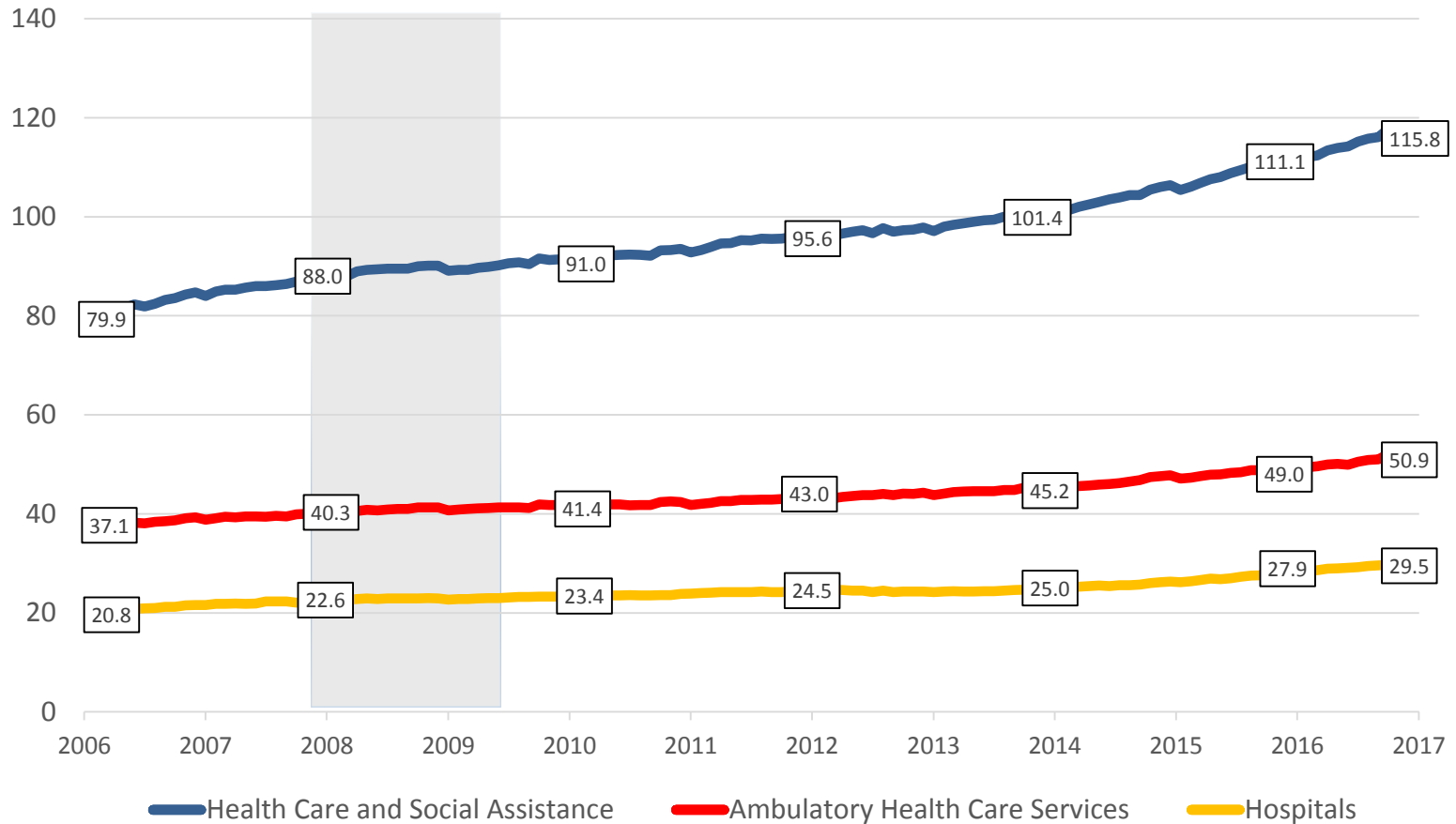
- Population growth and aging
- Reform-related insurance coverage expansions
- GDP and income growth, e.g., Tesla effects

Important, but Secondary Factors

- Population health needs (demand \neq need)
- Non-physician practitioners, esp. APRNs
- Health care system change, e.g., industry consolidation
- Technological change, e.g., telehealth

Health Care Employment in Nevada

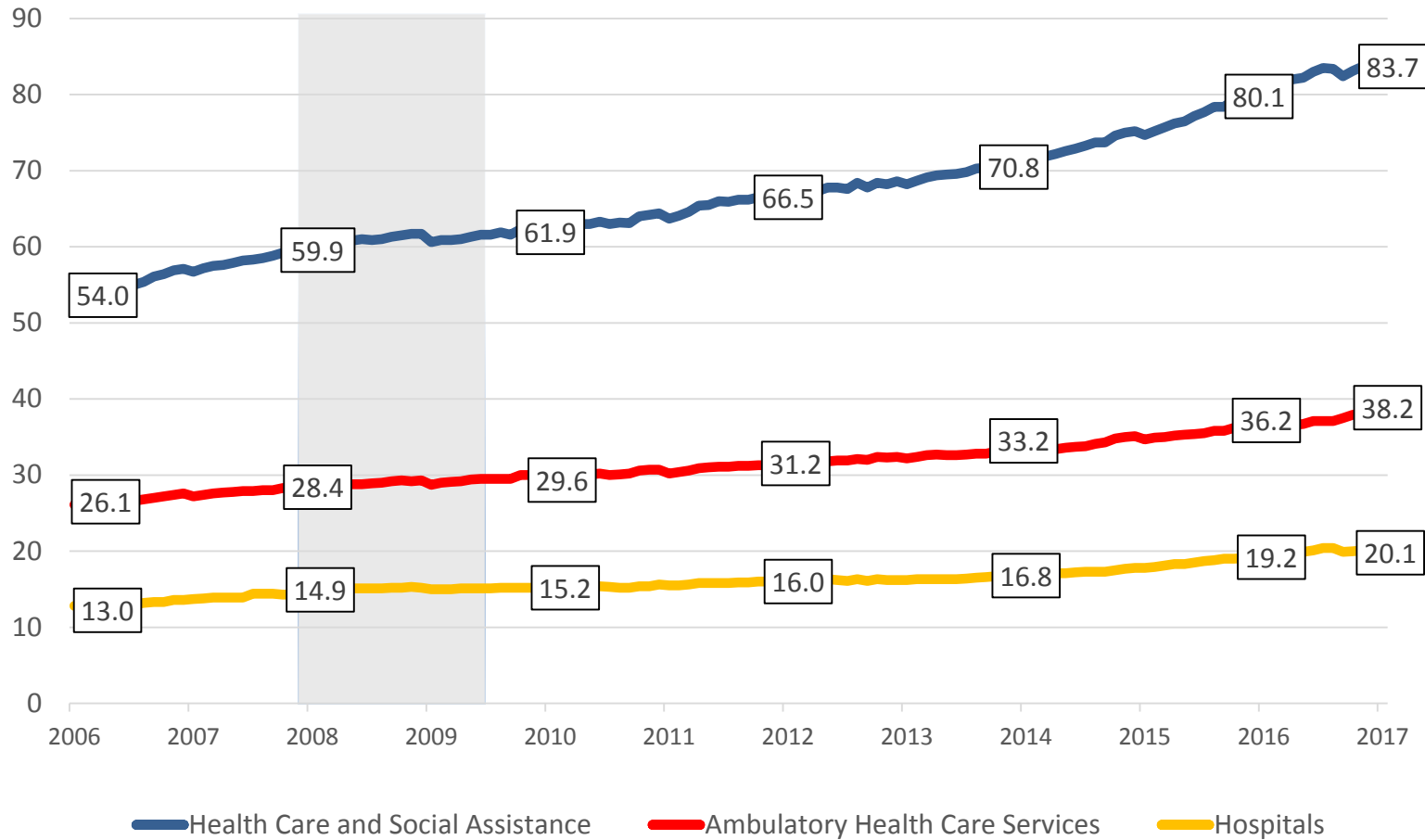
Number of Jobs (Thousands) – 2006 to 2017



Source: Nevada Department of Employment, Training, and Rehabilitation (2017).

Health Care Employment in Las Vegas

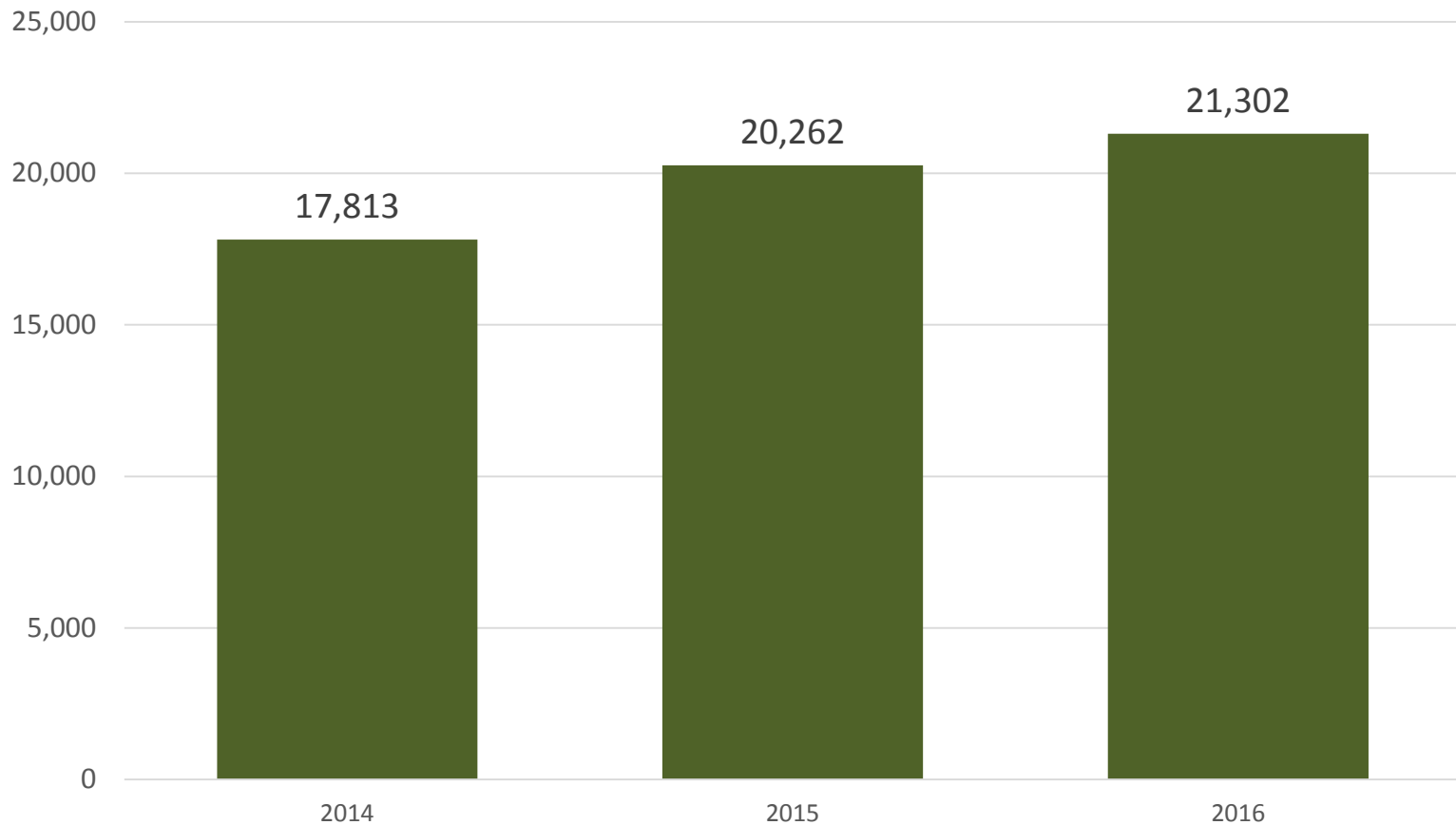
Number of Jobs (Thousands) – 2006 to 2017



Source: Nevada Department of Employment, Training, and Rehabilitation (2017).

Demand for Health Professionals in Nevada

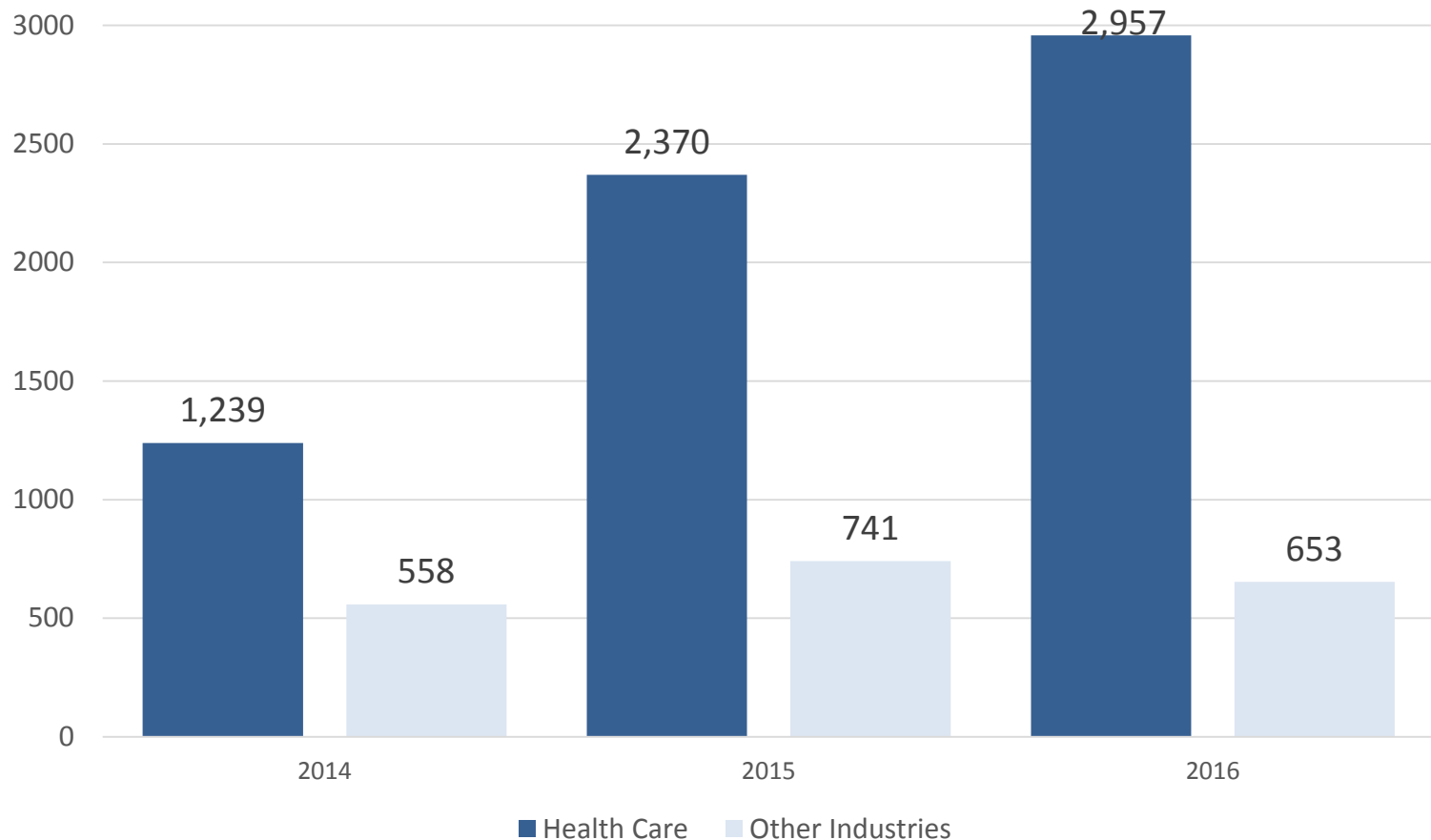
Total Health Sector Job Postings – 2014 to 2016



Source: OSI analysis of Burning Glass, Copyright © 2017 Burning Glass Technologies.

Demand for Physicians in Nevada

Job Postings – from 2014 to 2016



Source: OSI analysis of Burning Glass, Copyright © 2017 Burning Glass Technologies.

Projected Demand for Health Care Workers by Industry in Nevada from 2014 to 2024

- **Total Health Care and Social Assistance Sector: + 27,991 jobs (+25.1%)**
- Ambulatory Care: 13,987 jobs (+30.2%)
 - *Offices of physicians: 6,390 jobs (+35.6%)*
 - *Offices of dentists: 1,052 jobs (+13.3%)*
- Hospitals: 4,152 jobs (+12.3%)
- Skilled Nursing Facilities: 3,484 jobs (+27.2%)

Source: Nevada Department of Employment, Training, and Rehabilitation (2016).



"Is there a doctor who accepts Medicaid in the house?"

Physician Workforce Supply in Nevada

- Steady growth in the number of physicians (MD & DO) across most areas of the state
- “Treading water” in the number of licensed physicians and other health professionals per capita (with some important exceptions)
- Severe shortages compounded by an improving economy, ACA-related demand, and an aging health workforce
- Persistent specialty shortages and geographic maldistribution of physicians and providers

Current Physician Workforce Rankings

Number of Active Licensees in Nevada per 100,000 Population

- Physicians, MDs – 47th among U.S. states
- Physicians, DOs – 18th
- Physicians, MD & DO – 48th
- Patient Care Physicians – 48th
- Primary Care Physicians – 50th
- Residents & Fellows – 47th
- Residents & Fellows in Primary Care – 48th

Source: Area Health Research File (AHRF) (2016).

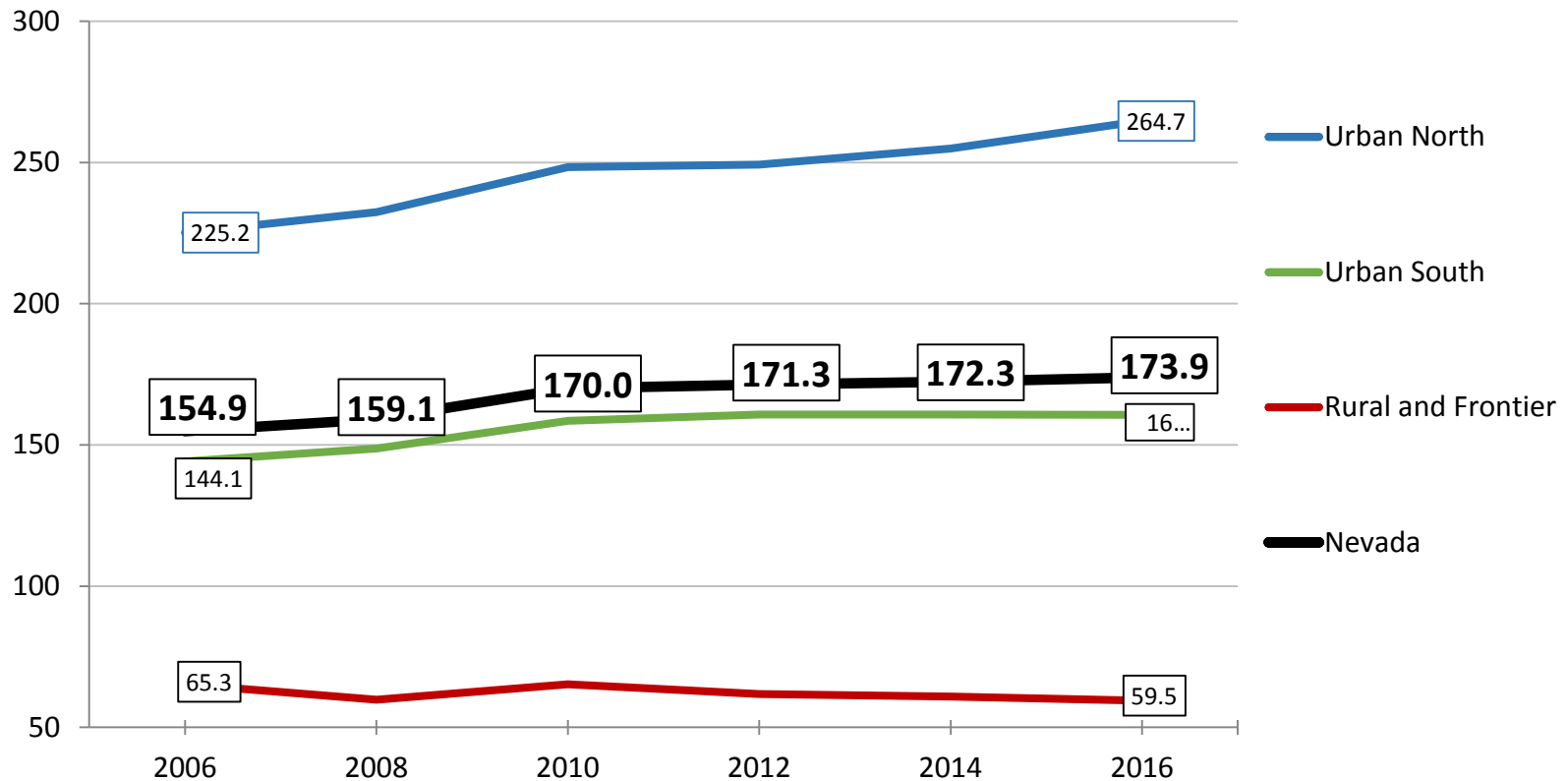
Current Physician Workforce Rankings

Number of Active Licensees in Nevada per 100,000 Population

- Anesthesiology – 23rd
- General and Family Practitioners – 47th
- General Surgeons – 50th
- Internal Medicine – 30th
- Obstetricians and Gynecologists – 47th
- Orthopedic Surgeons – 51st
- Pediatricians – 48th
- Psychiatry – 47th

Source: Area Health Research File (AHRF) (2016).

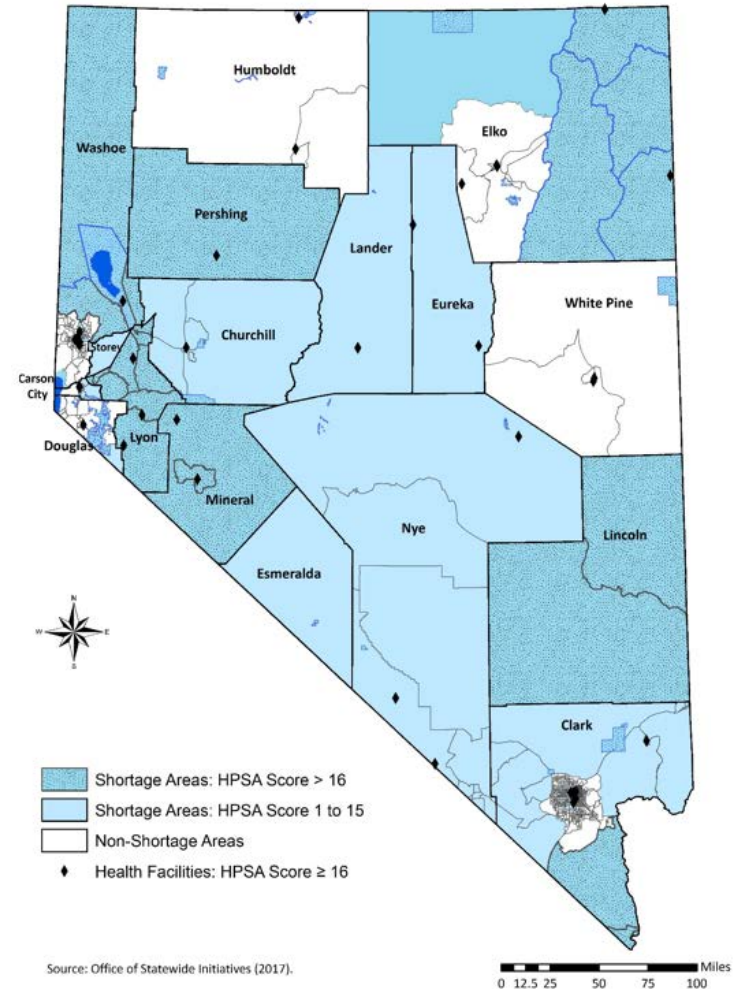
Number of Licensed Allopathic Physicians (MDs) per 100,000 Population in Nevada – 2006 to 2016



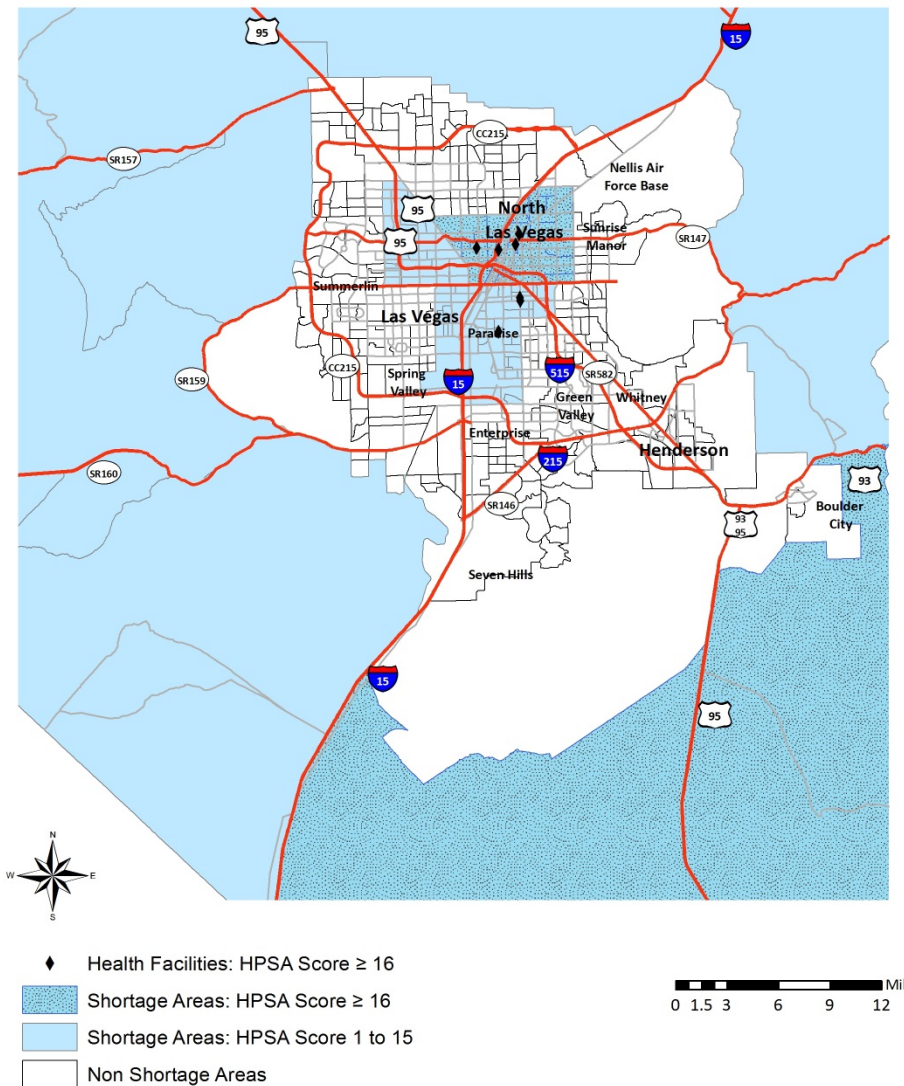
Source: OSI analysis of unpublished data from Nevada State Board of Medical Examiners (2017).

Primary Care Health Professional Shortage Areas (HPSAs) – 2017

- 982,117 Nevadans reside in a primary care HPSA (33.7%)
- 836,216 urban residents in Nevada (31.8% of urban residents) live in a primary care HPSA, including 631,812 residents of Clark County
- 165,412 rural residents (49.8% of rural residents) live in a primary care HPSA
- 9 single-county primary care HPSAs

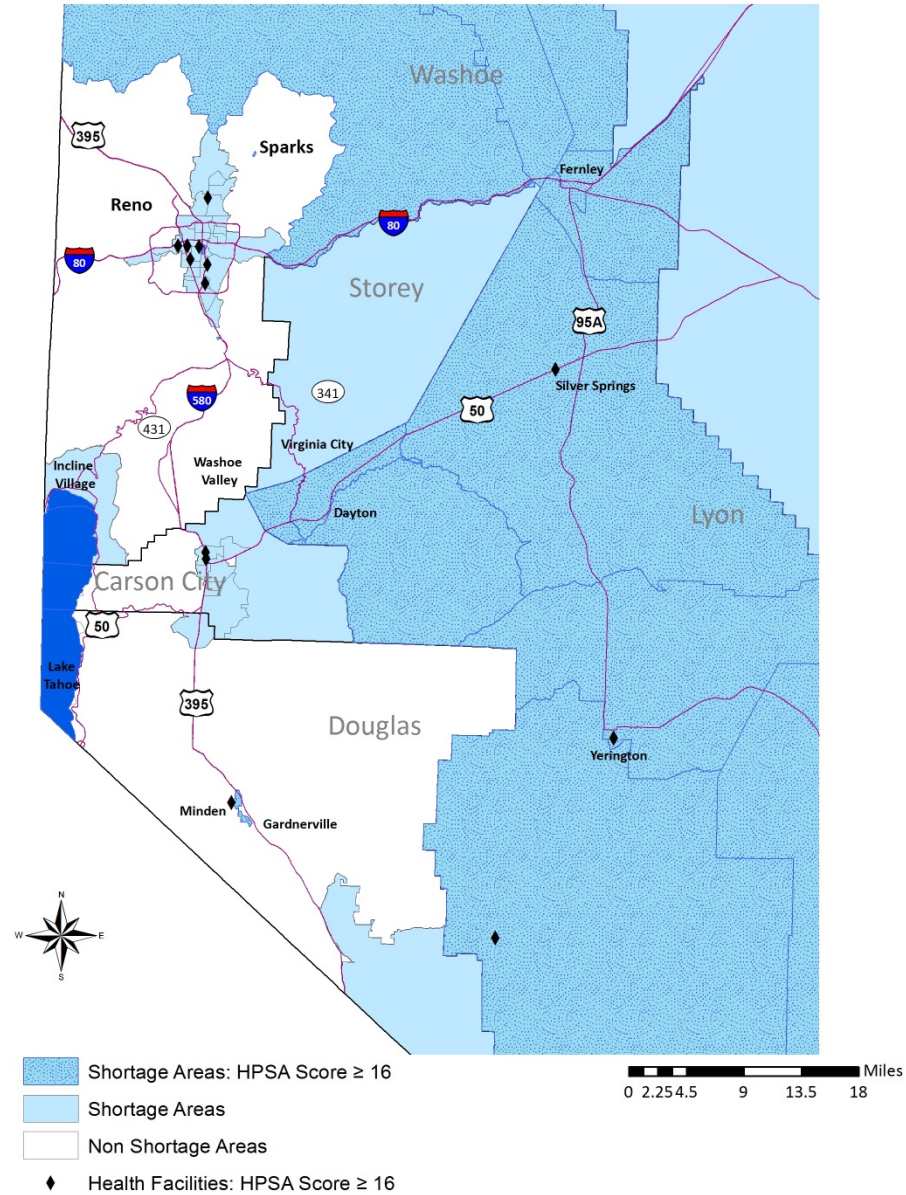


Primary Medical Care Health Professional Shortage Areas (HPSAs) in Metropolitan Clark County



Source: Office of Statewide Initiatives (2017).

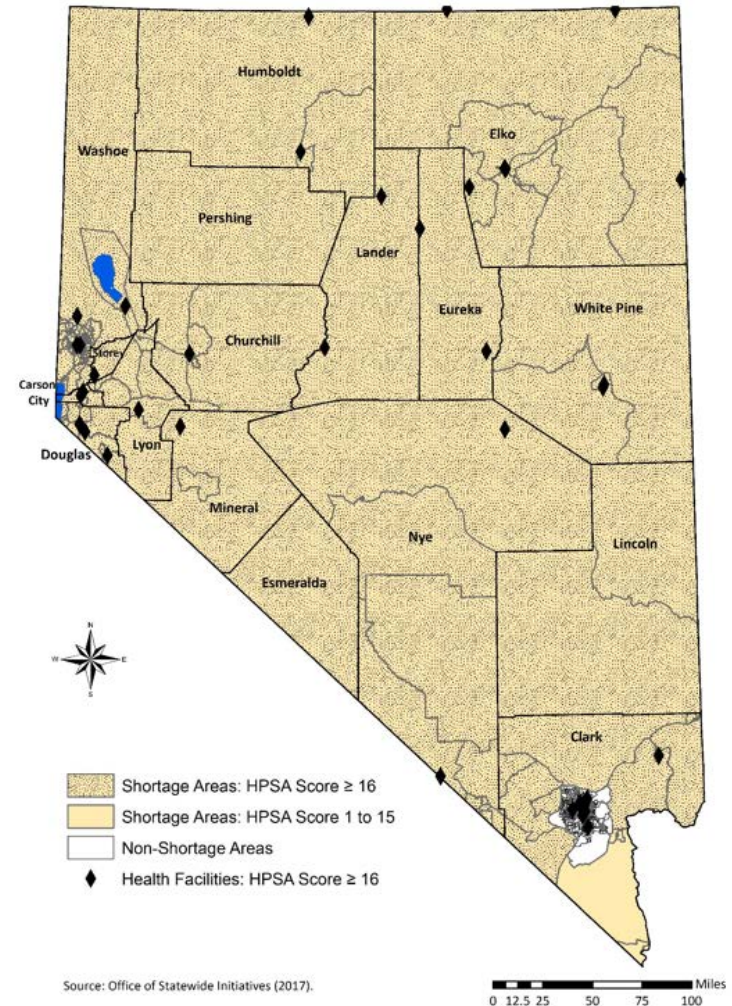
Primary Medical Care Health Professional Shortage Areas (HPSAs) in Metropolitan Northern Nevada



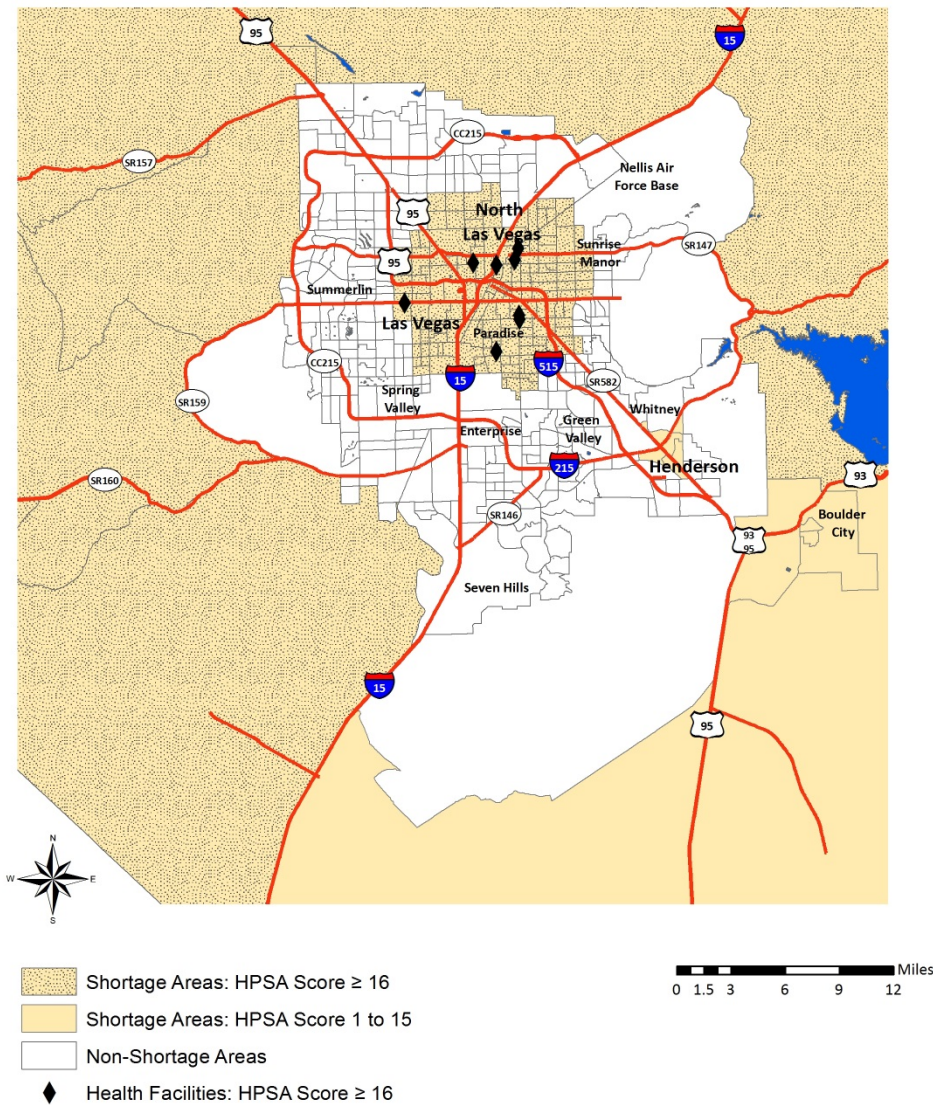
Source: Office of Statewide Initiatives (2017).

Mental Health Professional Shortage Areas (HPSAs) – 2017

- 1.5 million Nevadans reside in a mental HPSA (53.3%)
- 1.2 million urban residents in Nevada (48.1% of urban residents) live in a mental HPSA, including 736,908 residents of Clark County
- 286,251 rural residents (100.0% of rural residents) live in a mental HPSA
- 16 single-county mental HPSAs



Mental Health Professional Shortage Areas (HPSAs) in Metropolitan Clark County



Source: Office of Statewide Initiatives (2017).



"I'll go shop around for a doctor."

UNSOM GME Exit Survey

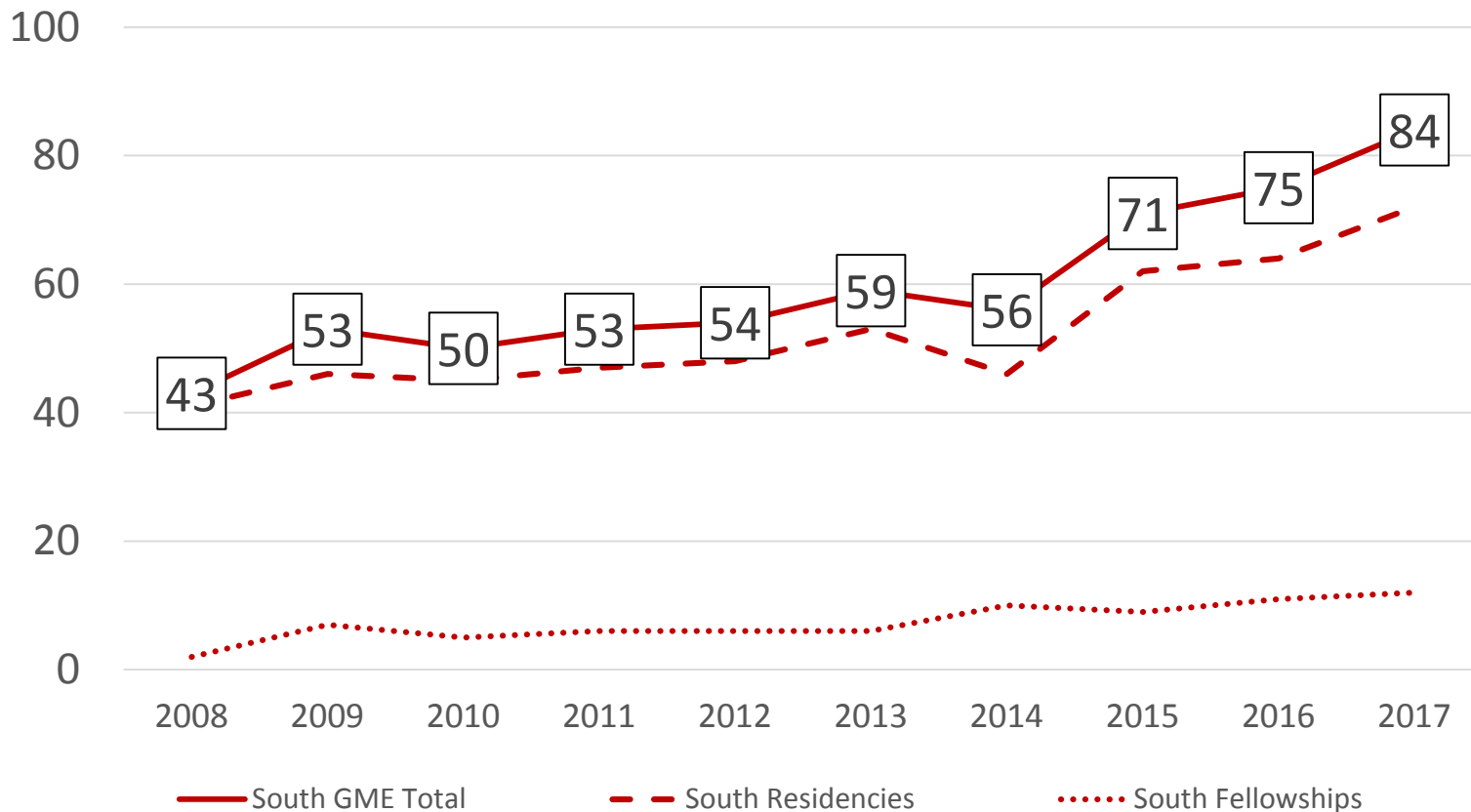
- Annual survey of physicians completing UNSOM residency and fellowship programs since 2004
- On-line, 29-item questionnaire administered from May 1 to 31 each year
- 90%+ response rate (93% in 2017)
- Historical and trend data updated via data from the Nevada State Board of Medical Examiners
- Future surveys will be administered to UNR, UNLV, and non-NSHE GME program graduates

Retention of Physicians Completing UNSOM GME Programs – 2017

N = 120	Beginning Practice	Continuing GME or Other	Total
Remaining in Nevada	32 (26.7%)	4 (3.3%)	36 (30.0%)
Leaving Nevada	47 (39.2%)	37 (30.8%)	84 (70.0%)
Total	79 (65.8%)	41 (34.2%)	120 (100.0%)

School of Medicine GME Graduates - 2008 to 2017

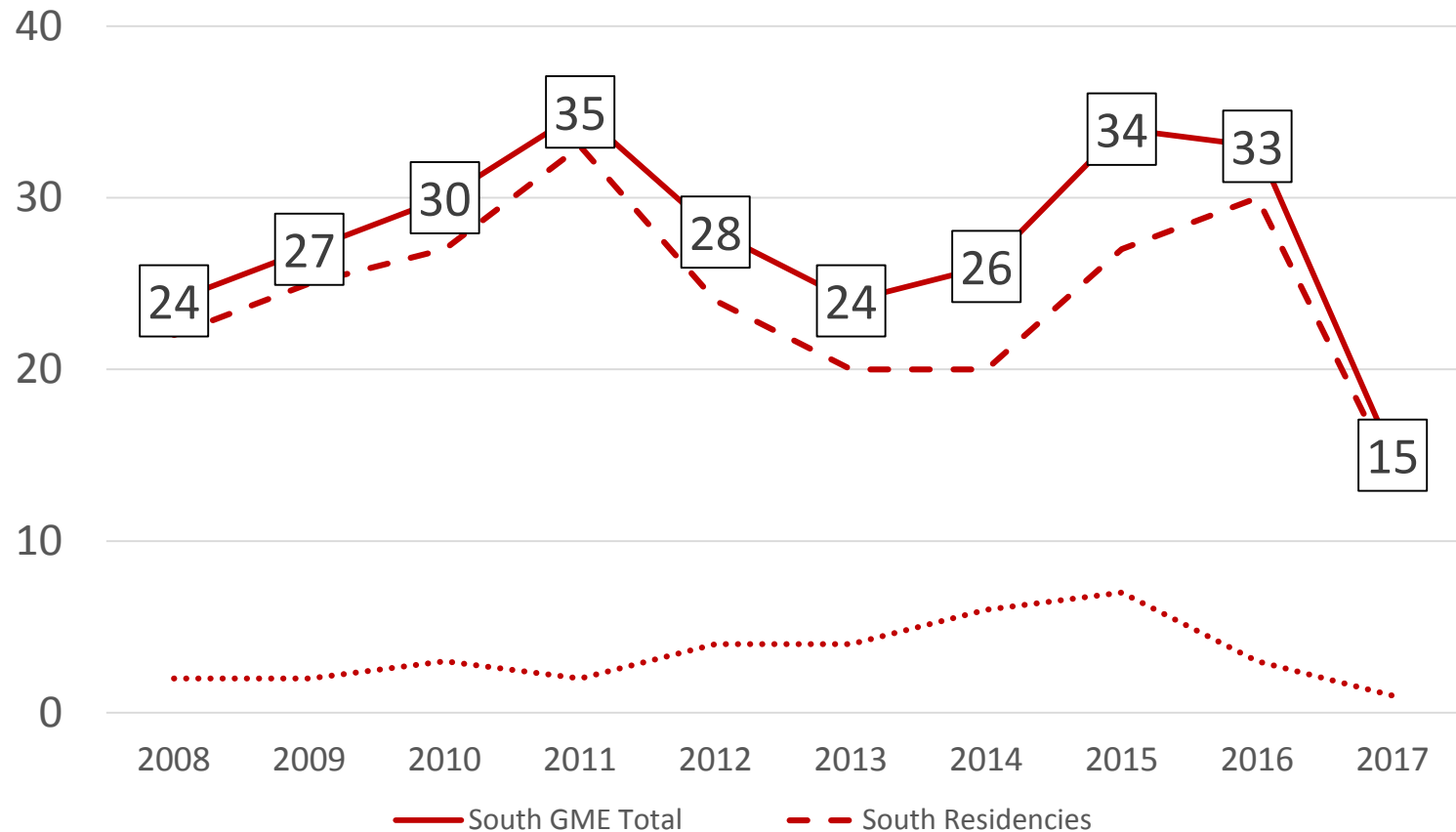
Number of Graduates from Southern Programs



Source: Griswold & Packham. *OSI Annual UNSOM GME Exit Survey (2017)*.

School of Medicine GME Retention - 2008 to 2017

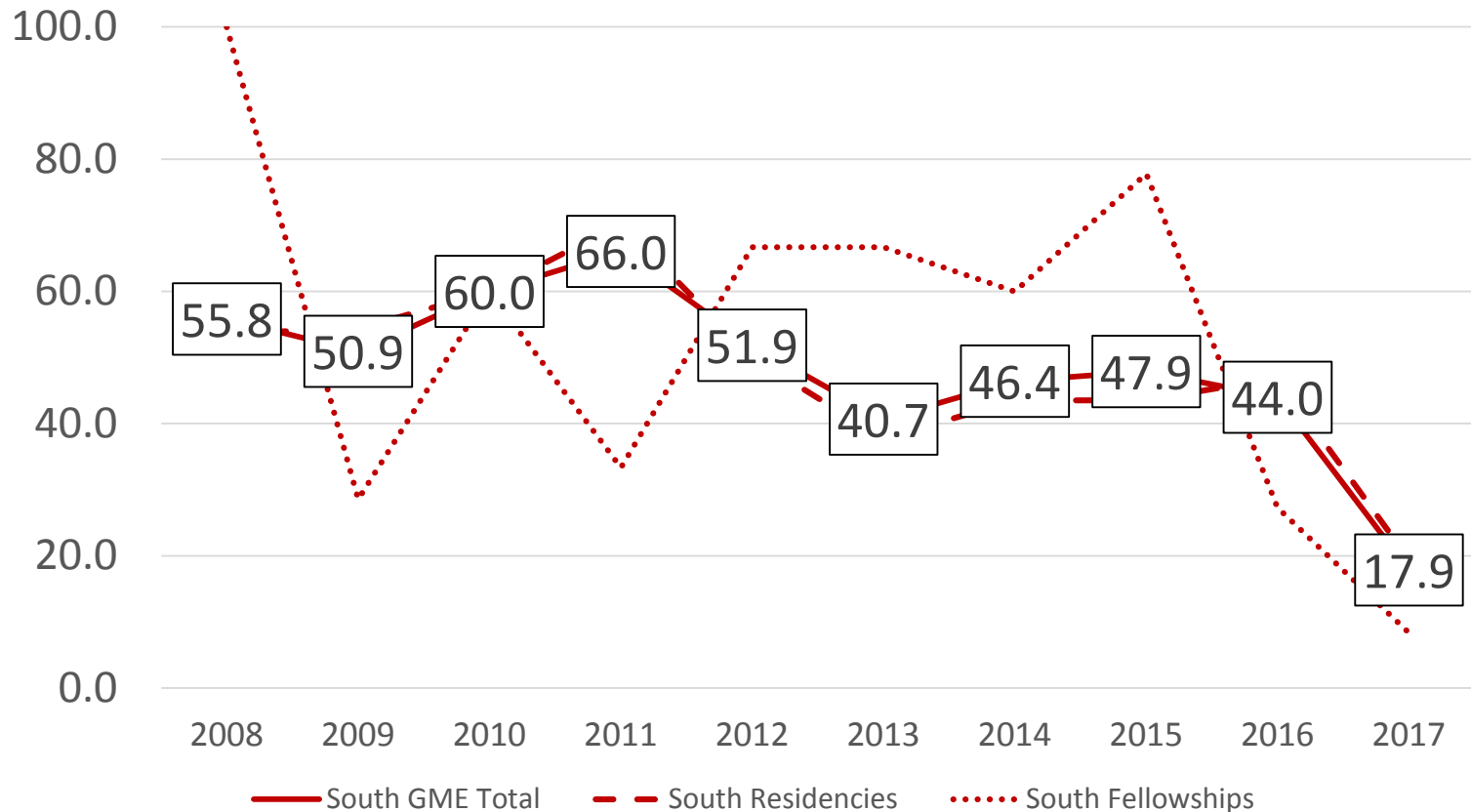
Number of Southern Program Graduates Remaining in Nevada



Source: Griswold & Packham. *OSI Annual UNSOM GME Exit Survey (2017)*.

School of Medicine GME Retention - 2008 to 2017

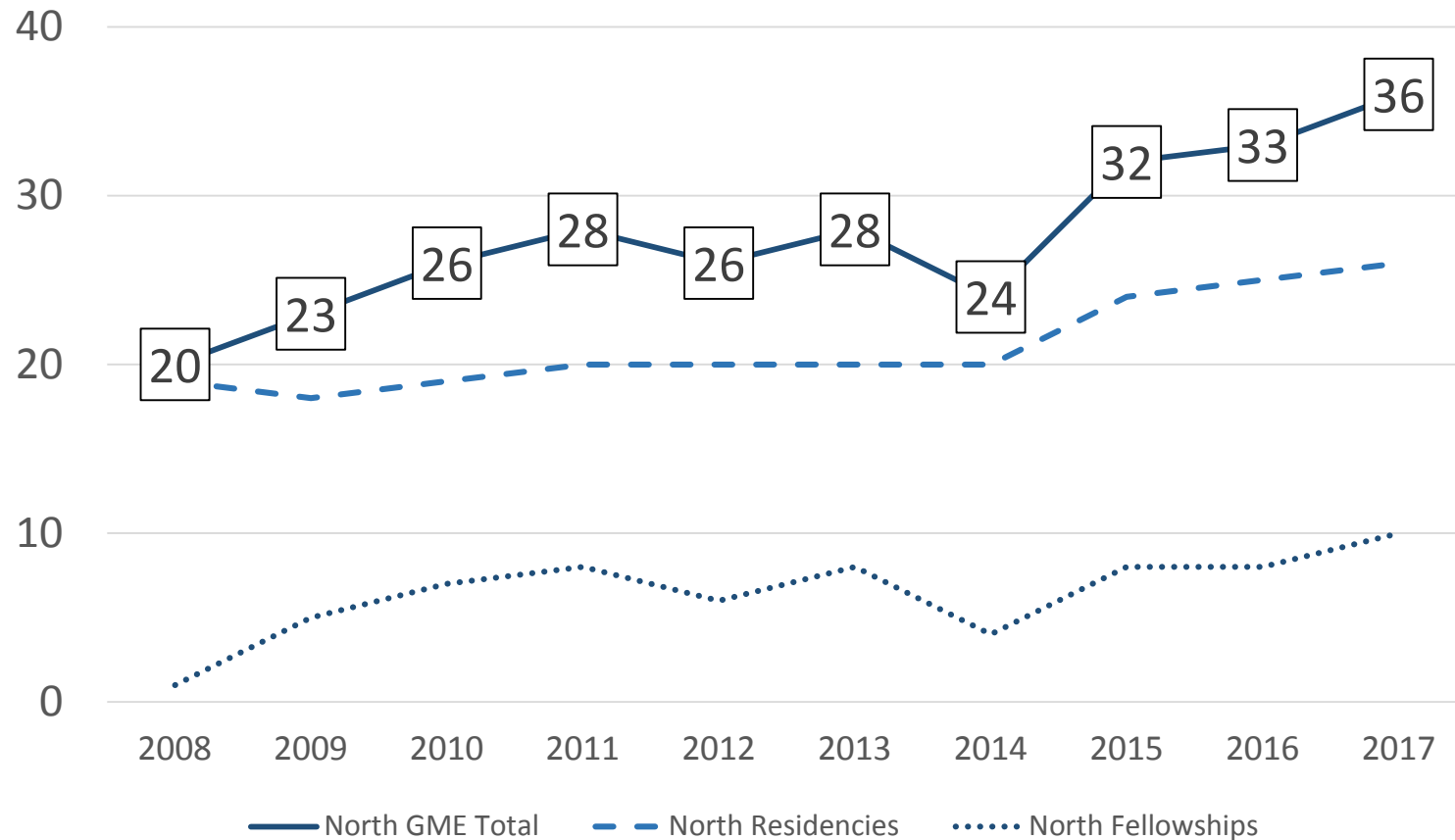
Percent of Southern Program Graduates Remaining in Nevada



Source: Griswold & Packham. *OSI Annual UNSOM GME Exit Survey (2017)*.

School of Medicine GME Graduates - 2008 to 2017

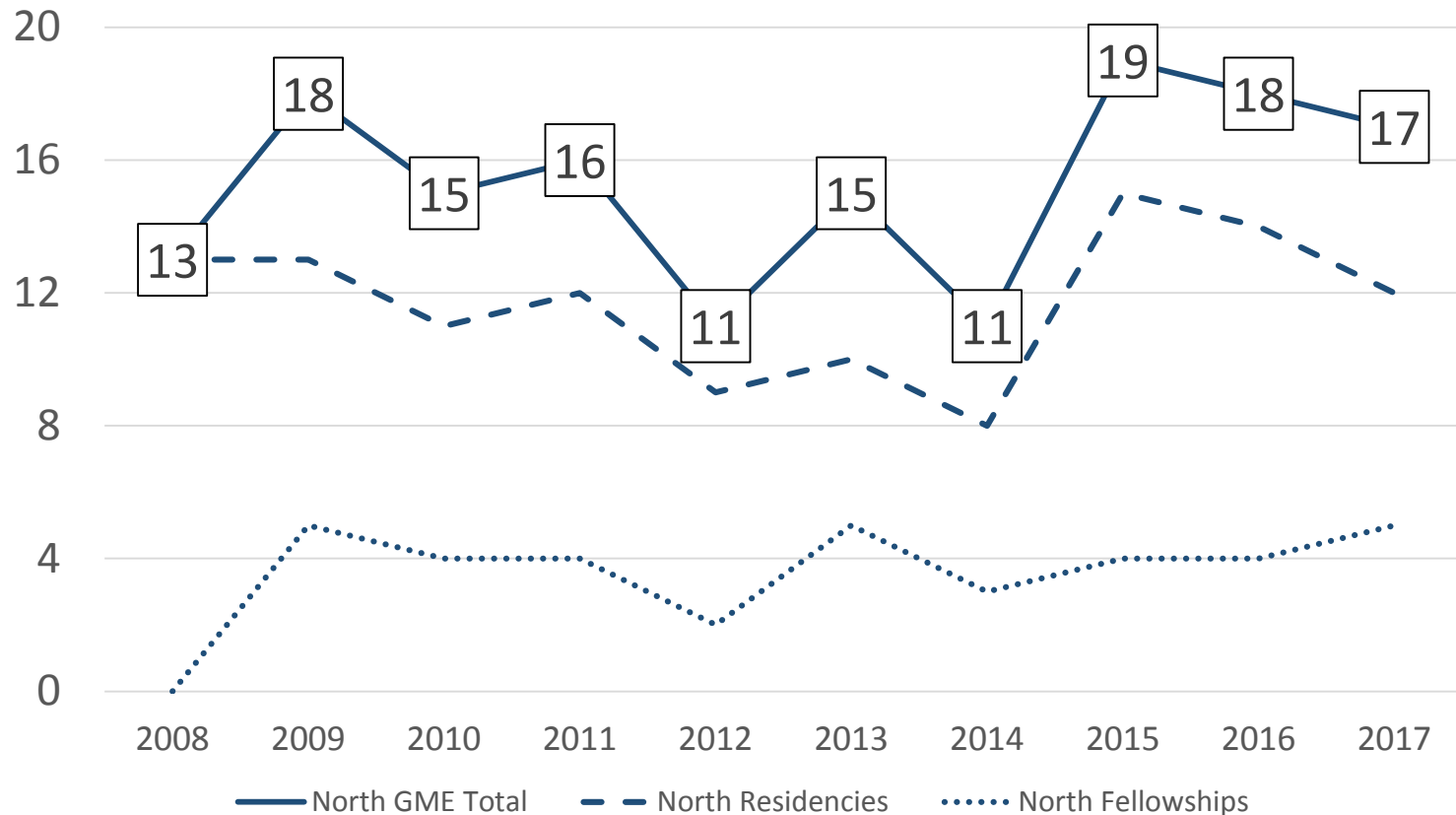
Number of Graduates from Northern Programs



Source: Griswold & Packham. *OSI Annual UNSOM GME Exit Survey (2017)*.

School of Medicine GME Retention - 2008 to 2017

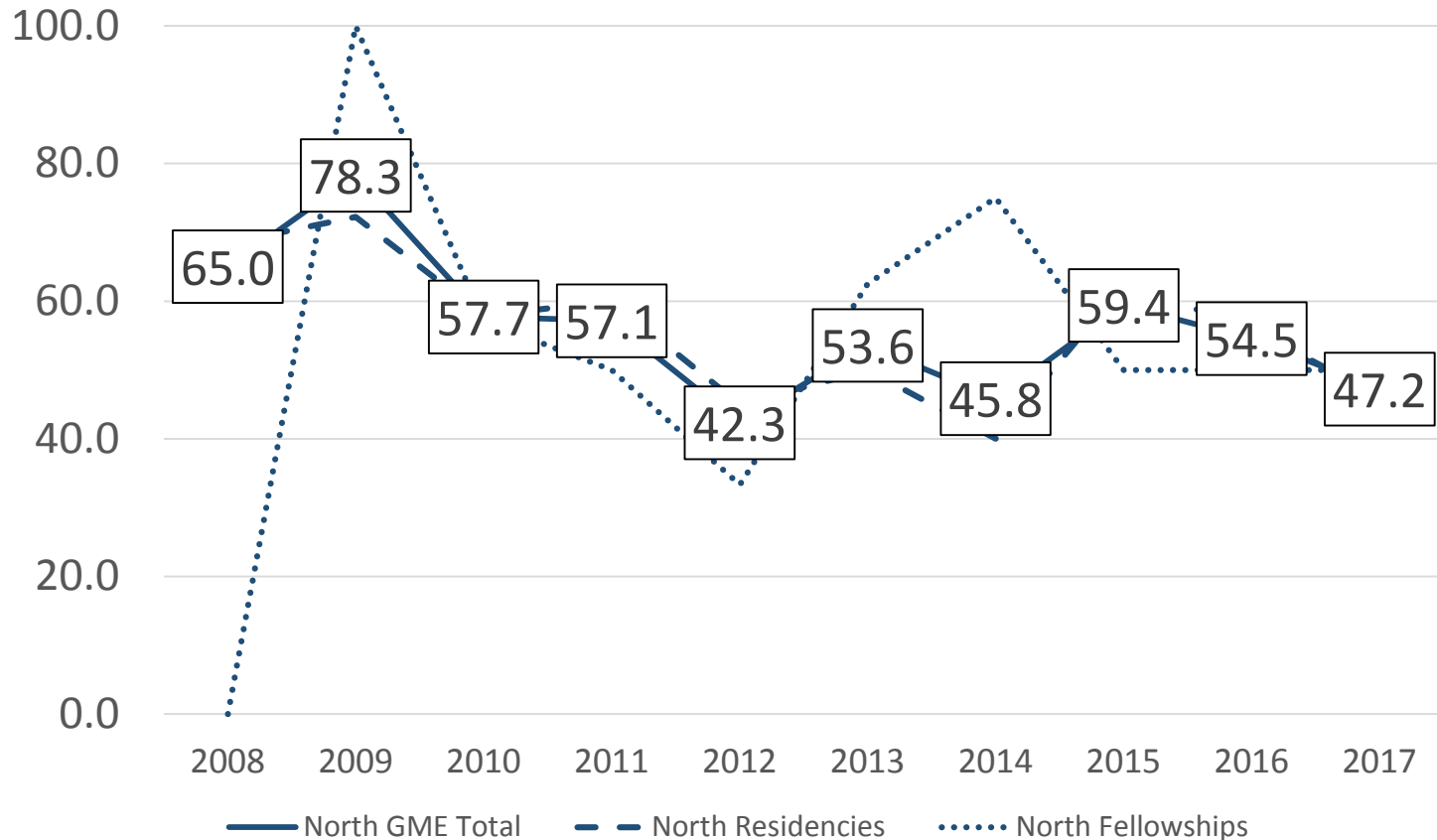
Number of Northern Program Graduates Remaining in Nevada



Source: Griswold & Packham. *OSI Annual UNSOM GME Exit Survey (2017)*.

School of Medicine GME Retention - 2008 to 2017

Percent of Northern Program Graduates Remaining in Nevada



Source: Griswold & Packham. *OSI Annual UNSOM GME Exit Survey (2017)*.

Retention of Physicians Completing UNSOM GME Programs in Nevada – 2008 to 2017

N = 887	Beginning Practice	Continuing GME or Other	Total
Remaining in Nevada	409 (46.1%)	30 (3.4%)	439 (49.5%)
Leaving Nevada	307 (34.6%)	141 (15.9%)	448 (50.5%)
Total	716 (80.7%)	171 (19.3%)	887 (100.0%)

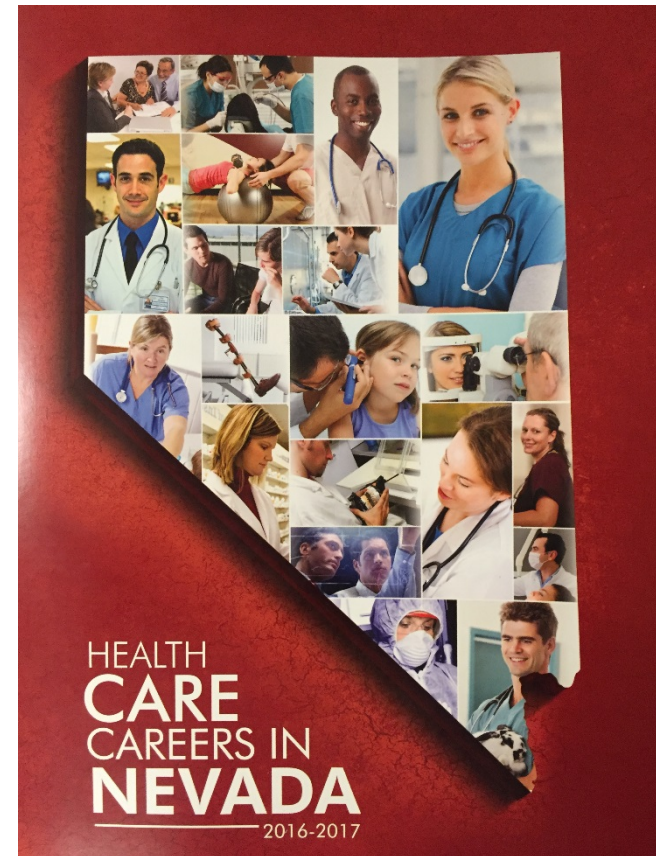
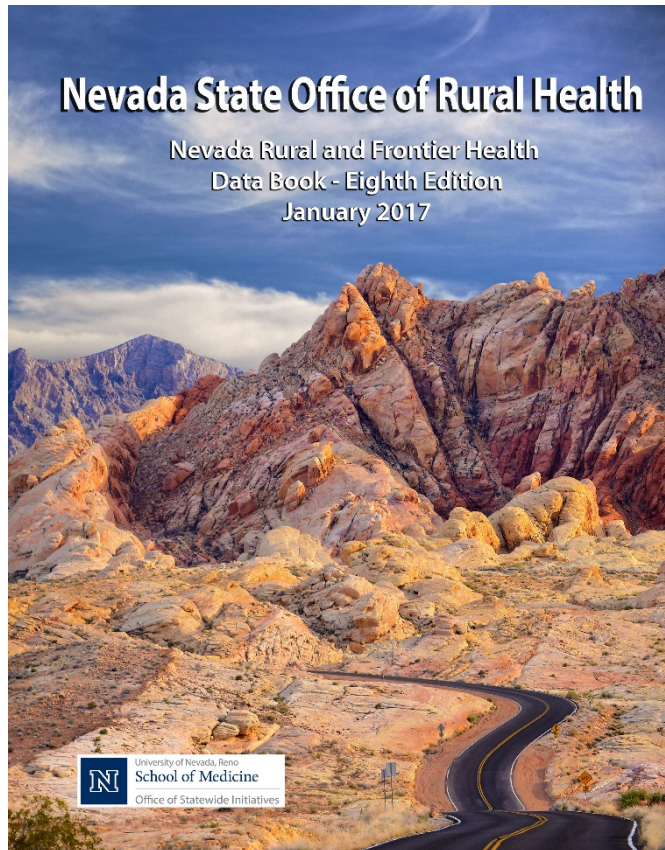
Current Physician Workforce Supply by Specialty and County in Nevada

- Per capita counts versus State average (Table 1)
 - Clark County: 11 of 36 specialties above state average, including pediatrics and internal medicine
 - Washoe County: 32 of 36 above state average
- Per capita counts versus US average (Table 2)
 - Clark County: Only 2 of 36 above US average
 - Washoe County: 18 of 36 above US average
 - Nevada: Basically all specialties are below US average

OSI Health Workforce Research and Policy Program

- *Health Workforce Supply in Nevada* – regional and statewide supply analysis
- Annual survey of physicians completing UNSOM graduate medical education programs
- *Physician Workforce in Nevada and Nursing Workforce in Nevada* reports
- Ongoing survey of incoming and graduating nursing students in NSHE nursing programs

OSI Health Workforce Research and Policy Program



<http://med.unr.edu/statewide/reports>

John Packham, PhD
Director of Health Policy Research
Office of Statewide Initiatives
University of Nevada, Reno School of Medicine
(775) 784-1235
jpackham@med.unr.edu
<http://www.med.unr.edu/statewide>



University of Nevada, Reno
School of Medicine