Envisioning the Future Optometry Workforce in North Carolina

A Case Study of the Use of Health Workforce Data to Make a Decision about a New Optometry School

Saraí Narváez, MSPH Julie C. Spero, MSPH Thomas Bacon, DrPH Erin P. Fraher, PhD, MPP

Health Policy and Management, Gillings School of Global Public Health Program on Health Workforce Research & Policy The Cecil G. Sheps Center for Health Services Research

April 30, 2015



Study Purpose

- Study in response to 2014 legislation requiring a study to determine the feasibility of establishing a school of optometry in the state
- UNC General Administration asked the Program on Health Workforce Policy at the Sheps Center to:
 - Analyze trends in NC's optometrist workforce
 - Report findings

1 UNC

Methods

North Carolina Health Professions Data System (HPDS)

- 30 years of data on 19 health professions from 12 different licensure boards
- Derived from annual licensure files from the North Carolina Board of Optometry

Optometrist Expert Advisory Group

 Provided clinical, educational, regulatory, employment and policy perspectives.

Other Sources

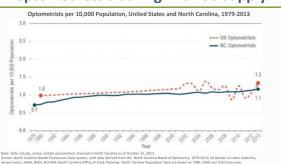
D UNC

Supply & Distribution





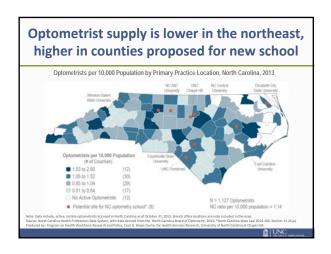
North Carolina's supply of optometrists tracking with US supply



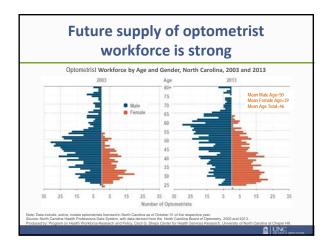
Optometrist coverage varies by region, with limited or no optometry coverage in 9 counties

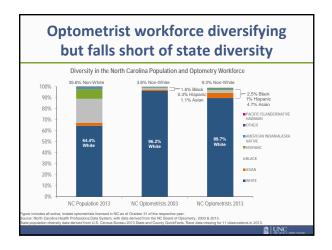
- In 2013, 1,127 optometrists were in active practice in North Carolina
- Twelve counties had no optometry primary practice locations:
 - Three counties (Bertie, Pamlico, and Warren) had general optometry coverage at a branch location
 - Seven counties only had optometrist coverage in an assisted living, rehabilitation, or nursing home setting
 - Coverage only for specific groups, not the general population
 - Two counties (Camden and Tyrrell) did not have any type of optometrist coverage

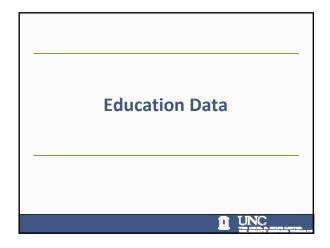
UNC

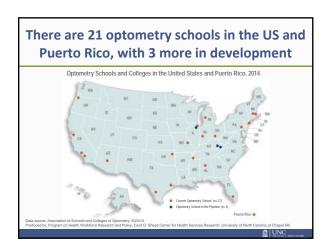












Optometry schools in the pipeline



- 3 optometry schools are currently in development:
- University of Pikeville
 Pikeville, KY
 Entering class of 60 Students
 Fall 2016
- Appalachian College of Optometry and Emory & Henry College Grundy, VA Entering class of 48 Students
- Fall 2016

 Midwestern University
 Downers Grove, IL
 Entering class of 50 Students
 Projected Start Unknown

e: Review of Optometry, http://www.reviewofoptometry.com/content/c/47310/ and Optometry Times, optometrytimes.modemmedicine.com/optometrytimes/news/midwestem-university-univels-plans-new-optometry-school?page=full

⋒ UNC

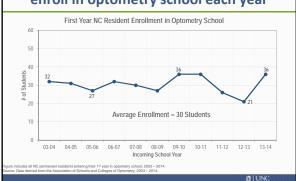
Optometry student enrollment is increasing

- 1,818 first year students enrolled in professional O.D. programs in the U.S. in 2013
 - a 22% increase from 2008 (n=1,486).
 - 86% of this increase was due to four schools that opened between 2008 and 2013, adding 286 first year students
 - 14% of this increase was due to increases in first year enrollment (n=46)
- When proposed schools in KY, VA, and IL open, an additional 158 students will enroll each year
 - a **9%** increase from 2013

ssociation of Schools and College of Ontometry Annual Student Data Report. Academic Year 2008 – 2009, 2013 – 2014

UNC

On average, approximately 30 NC residents enroll in optometry school each year



Optometry Expert Advisory Group





Discussion

Changes in Practice Environment and Scope of Work

- Independent practices are struggling to compete with online and chain retailers on glasses and contacts
- Co-location of optometrists in practices with ophthalmologists is increasingly prevalent
- Optometrists provide varying scopes of services depending on the availability of other practitioners

nlunc

Recommendations

- Reinstate the SREB Regional Contract Program in order to make tuition costs more equitable
- Structure loan forgiveness programs to require service in underserved areas of NC
- Expand clinical training opportunities for optometrists in NC through externships and residencies

UNC

Conclusions

- Strong future supply in pipeline
- Rapid growth of other optometry programs in other states
- North Carolina has reputation for being progressive state in which to practice
- State has attracted optometrists despite lack of an optometry school

D UNC

Policy Implications

The UNC Board of Governors considered workforce and costs to start and annually maintain a school of optometry

They recommended against starting an optometry school in the UNC system, potentially saving state an estimated \$12-\$40 million in initial start-up costs and an estimated \$8-19 million in annual operation costs

n LUNC

Questions?

Saraí Narváez, MSPH

Health Policy and Management
Gillings School of Global Public Health
Program on Health Workforce Policy and Research
The Cecil G. Sheps Center for Health Services Research
snarvaez@live.unc.edu
919-843-1027

http://www.healthworkforce.unc.edu



D UNC