

Tri-State Health Professional Workforce Analysis

Funded by grant from the National Organization of State Offices of Rural Health

Western Upper Peninsula of Michigan,
Northeastern Minnesota and Northern Wisconsin

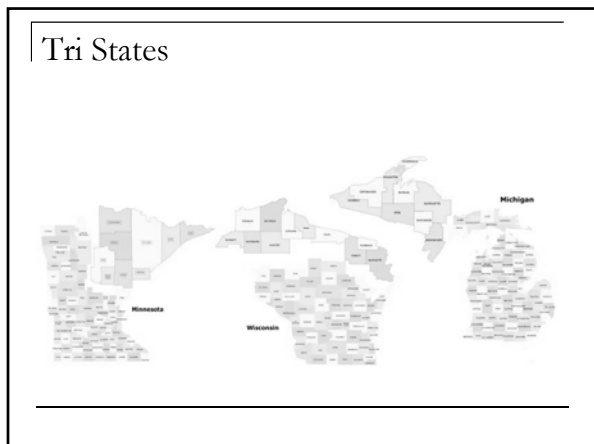
October 2007

Introduction

- State Office of Rural Health project – MI, MN, WI
- Project funded by a NOSORH collaborative grant
- Study of health professional workforce
- Focus on northern region of 3 states; 28 counties
- 10 physician specialties and dentistry
- Conducted by the Rural Health Resource Center

Purpose

- Collect and analyze data on current and projected physician and dental supply and demand in northern MI, MN and WI
- Facilitate a discussion on physician supply and demand in the tri-state region
- Discuss interstate workforce planning
- Share results with other SORHs
- Plan a follow-up meeting to further explore collaborative approaches to workforce recruitment and retention in the tri-state region





County Population - Michigan

Michigan	2006 Estimate
Baraga	8,742
Dickinson	27,447
Gogebic	16,524
Houghton	35,334
Iron	12,377
Keweenaw	2,183
Menominee	24,696
Ontonagon	7,202
Total	134,505

Sources: Official State of Michigan Portal http://www.michigan.gov/documents/8510_26104_7.pdf
http://www.classbrain.com/articles/publish/article_1255.shtml

County Population - Minnesota

Minnesota	2006 Estimate
Aitkin	16,198
Carlton	34,220
Cass	29,949
Cook	5,369
Crow Wing	61,038
Itasca	44,347
Koochiching	13,619
Lake	11,100
St. Louis [Duluth]	196,324 [85,170]
Total [Total without Duluth]	412,164 [326,994]

Sources: Minnesota Department of Administration, Office of Geographic and Demographic Analysis, State Demographic Center <http://www.demography.state.mn.us/estimates.html>

County Population - Wisconsin

Wisconsin	2006 Estimate
Ashland	16,511
Bayfield	15,147
Burnett	16,490
Douglas	44,061
Florence	4,941
Forest	9,899
Iron	6,502
Marinette	43,208
Sawyer	17,080
Vilas	22,379
Washburn	16,674
Total	212,892

Sources: State of Wisconsin, Department of Administration <http://www.das.state.wi.us/documents.asp?docid=2013>

- ### Supply and Demand
- Current supply of health professionals
 - Current vacancies and shortages
 - Provider/population ratios
 - Health Professional Shortage Areas
 - Practice opportunities - vacancies
 - Projected future supply and demand
 - Population projections
 - Health professional graduates

Health Professionals

- Physicians
 - Family Medicine
 - Internal Medicine
 - Pediatrics
 - Medicine/Pediatrics
 - Obstetrics/Gynecology
 - General Surgery
 - Orthopaedic Surgery
 - Radiology
 - Urology
 - Psychiatry
- Dentists

Current Supply of Physicians in Tri-State Region

Physician Specialties	MI	MN (Excluding Duluth)	WI	Total (Excluding Duluth)
Family Medicine	67	286 [210]	82	435 [359]
Internal Medicine	17	98 [42]	27	142 [86]
Pediatrics	10	25 [12]	6	41 [28]
Medicine/Pediatrics	0	2 [0]	0	2 [0]
General Surgery	13	44 [26]	10	67 [49]
Obstetrics/Gynecology	10	33 [15]	6	49 [31]
Orthopaedics	6	39 [39]	9	54 [52]
Psychiatry	8	34 [28]	7	49 [43]
Radiology	11	31 [11]	0	42 [22]
Urology	2	12 [10]	2	16 [14]
Total	144	604 [393]	149	897 [684]

Sources: 2006 Physician Licensure Database, Office of Rural Health & Primary Care-Minnesota Department of Health, and 2006 Physician Supply and Distribution in Michigan Report and Wisconsin Office of Rural Health.

Current Supply of Dentists in Tri-State Region

Profession	MI	MN (Excluding Duluth)	WI	Total
Dentists	NA	208 [141]	85	293 [226]

Sources: 2005 Minnesota Dentist Licensure Database, Office of Rural Health & Primary Care-Minnesota Department of Health and WI Department of Licensing and Regulation.

Total Number of First Year Residents
by State

Physician Specialties	First Year Positions - MI	First Year Positions - MN	First Year Positions - WI	Total
Family Medicine	197	81	80	358
Internal Medicine	356	113	86	555
Pediatrics	89	33	36	158
Medicine/Pediatrics	27	12	6	45
Obstetrics/Gynecology	88	14	16	118
General Surgery	88	31	12	131
Orthopaedics	52	18	10	80
Psychiatry	46	23	16	85
Radiology	73	24	20	117
Urology	11	7	4	22
Total	1,027	356	286	1,669

Source: American Medical Association's 2007-2008 Graduate Medical Education Directory and the American Osteopathic Association.

Total Dental School Graduates by State

State	2006 Graduates	2007 Graduates	Projected 2012 Graduates
Michigan	101	111	110-115
Minnesota	85	98	96
Wisconsin	80	77	80
Total	266	286	286

Source: University of Michigan School of Dentistry, University of Minnesota School of Dentistry, and Marquette University School of Dentistry.

Health Professional Medical Programs
Offered in Tri-State Region

- Educational programs offered
 - Family Medicine Residency Program, Duluth, MN
 - Family Medicine Residency Program, Marquette, MI (near Tri-State region)
 - University of Minnesota School of Medicine, Duluth, MN (2 year program)

Regional Professional Vacancies and Graduates

Provider Type	# Current Family Medicine Vacancies	# 2007 Tri-State Region Graduates (With Duluth)
Family Medicine Physicians	37	10

Source: American Medical Association's 2007-2008 Graduate Medical Education Directory

2007 Physician Vacancies by State

Specialty	MI	MN [Excluding Duluth]	WI	Total
Family Medicine	6	17 [16]	14	37 [36]
Internal Medicine	2	8 [5]	11	21 [18]
Pediatrics	1	1 [0]	1	3 [2]
Medicine/Pediatrics	0	2 [2]	0	2 [2]
Obstetrics/Gynecology	1	2 [2]	1	4 [4]
General Surgery	1	3 [2]	1	5 [4]
Orthopaedics	3	3 [1]	2	8 [6]
Psychiatry	0	3 [2]	0	3 [2]
Radiology	0	0 [0]	0	0 [0]
Urology	2	2 [0]	0	4 [2]
Total	16	41 [30]	30	87 [76]

Source: Michigan Center for Rural Health, Rural Health Resource Center (MN) and Wisconsin Office of Rural Health.

Current Vacancies and Vacancy Rates of Primary Care Physicians in Tri-State Region

Michigan Vacancy Rates			
Physician Specialty	# Practicing	# of Vacancies	Vacancy Rate
Family Medicine	67	6	8%
Internal Medicine	17	2	11%*
Pediatrics	10	1	9%*
Obstetrics/Gynecology	10	1	9%*
Total	104	10	9%
Minnesota Vacancy Rates			
Family Medicine	288	17	6%
Internal Medicine	98	8	8%
Pediatrics	25	1	4%*
Obstetrics/Gynecology	33	2	6%*
Total	444	28	6%
Wisconsin Vacancy Rates			
Family Medicine	62	14	22%
Internal Medicine	27	11	39%*
Pediatrics	6	1	14%*
Obstetrics/Gynecology	6	1	14%*
Total	121	27	18%

Sources: Michigan Center for Rural Health, Rural Health Resource Center (MN), and Wisconsin Office of Rural Health
 * For specialties with data for fewer than 50 positions, a small change in the number of vacancies would significantly change the vacancy rate.

Summary

- Family Medicine physician opportunities are the most prevalent in the tri-state region
- Gaps exist between health professional supply and demand:
 - Especially in Dentistry and Internal Medicine
- Demand for health care services will increase as a result of the aging population
- Demand for health care services will increase with growing population in specific counties in MN and WI

Summary continued

- Limited number of family medicine medical educational programs in region
- Lack of dentistry and non-primary care medicine education
- Limitations in consistent data across three states
- Distribute tri-state Health Care Workforce Analysis Report to states
- Help build collaboration in cross – state rural recruitment
- Participate in NOSORH call
- Discuss tri-state Region Workforce Forum

The State of Mind