# IT TAKES A VILLAGE

A Pilot Review of Barriers to and Facilitators of Rural Medical Student Matriculation and a Discussion on Minnesota's Rural Health Workforce Challenges

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## **Disclosures**

No disclosures (only our love for rural Minnesota!)



## **MINNPOST**

**News Health** 

Workforce shortages plague rural hospitals, legislation to address it stalls

by **Liz Carey** 01/10/2024











Jan 31, 2024 - Nev

Nearly half of Minnesota's rural hospitals don't offer labor and delivery



Torey Van Oot



OPINION COLUMNS

Local View: Rural Minnesota needs quality health care, too

From the column: "Another challenge we face is the substantial shortage of health care workers. In Minnesota alone, there are currently 45,000 openings across the industry."

Opinion by Dr. David Herman November 15, 2023 at 9:49 AM

#### **AGWEEK**

New report shows unmet need for mental health professionals in rural Minnesota

The report was made in partnership with the Center for Rural Behavioral Health, Minnesota State University, Mankato.

#### 📤 Minnesota Legislature

February 21, 2022 5:33 PM

Student loan forgiveness pitched as possible solution to rural health worker shortage

By Tim Walker

#### **MPRNEWS**

Minnesota Now

State taskforce looking to solve EMS staffing and funding crisis

Cathy Wurzer and Lindsey Seavert January 9, 2024 11:53 AM

#### **★ StarTribune**

LOCA

Minnesota could face 'alarming' health care worker shortage within five years

More such professionals are reporting burnout and considering career changes.

By Ryan Faircloth Star Tribune | APRIL 12, 2022 - 5:02PM



COVID-19

Minnesota rural hospital workers feel the strain as colleagues leave, COVID stays

Catharine Richert Aitkin, Minn. February 17, 2022 4:00 AM



Shortage of direct-care workers poses greater problem for us here in rural Minnesota

Open Audio Article Player August 09, 2023



Dental difficulties: Workforce issues dampen rural Minnesotans' access to dental care





## MEDICAL SCHOOL

University of Minnesota

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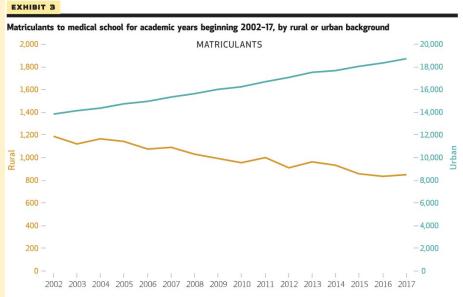
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EMPLOYMENT AND ECONOMIC DEVELOPMENT

Should I Stay or Should I Go? Factors Associated with Health Care Professionals' Choice to Practice in Rural Minnesota

By Teri Fritsma, Minnesota Department of Health December 2023





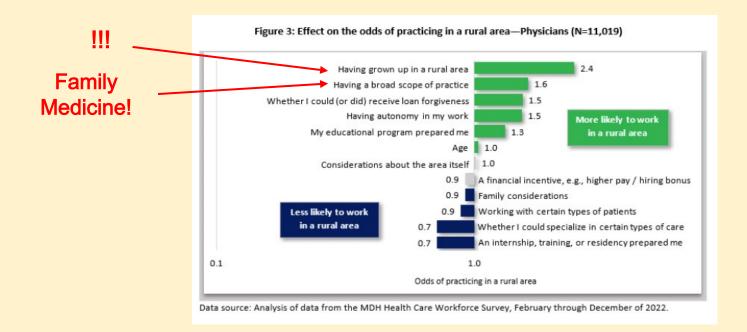
source Authors' analysis of data from the American Medical College Application Service for 2002-03 through 2017-18. NOTE Rural or urban background could not be ascertained for 2.2 percent of the matriculants included in the study.



Data source: MDH's geocoding and analysis of licensees' practice addresses, as reported to their respective licensing boards in 2023.



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#### Objectives:

- To survey the literature examining barriers to and facilitators of medical school matriculation for people from rural backgrounds.
- To engage Minnesota's family medicine community in discussion regarding addressing our rural healthcare workforce.



## **A Pilot Review**

- Databases: PubMed, MedLine, PsycINFO, Web of Science
- Search Strategy and PRISMA Flow Diagram
- Inclusion Criteria:
  - Peer-reviewed publication in English between 1/1/2013-12/13/2023
  - Any study design, including commentaries .
  - Investigation or discussion of individuals in the U.S. with rural background who are on the path or potentially on the path to medical school and the programs, policies, and practices that impact their path to medical school.
- Number of articles: 45 (<u>Bibliography</u>.)



## **Findings**

	Individual	High School	Undergraduate	Medical School
Barriers	<ul><li>Financial</li><li>Low self - efficacy</li></ul>	<ul> <li>Limited         access to         advanced         coursework</li> <li>Limited early         exposure/         shadowing</li> </ul>	<ul> <li>First -         generation in         college         and/or         medicine</li> <li>Limited         MCAT         support</li> </ul>	Misalignmen t between social contract and admissions practices
Facilitators	<ul> <li>Supportive family/social structure</li> <li>Early mentorship</li> </ul>	AHEC collaboration	<ul> <li>Research         programs for         rural         students</li> </ul>	<ul> <li>Strong rural mission</li> <li>Regional campuses</li> <li>Rurally focused admissions</li> </ul>



### Limitations

- U.S. samples/programs only, decreasing ability to draw ideas from strengths of international initiatives
- Peer-reviewed articles only, but there are substantial efforts noted in dissertations/theses
- Potential bias in article screening/selection due to one reviewer

## **Conclusions**

- Emerging evidence suggests that interventions along the pathway, from early outreach to medical school admissions policies, have potential to be effective in increasing rural matriculants
- Dearth of literature and decentralization of research on rural pre to unified policy and advocacy agenda

-medical pathway poses barriers



## **DISCUSSION**







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## **THANK YOU!**

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References are linked throughout presentation. Please contact us for additional information!

