

Physician Workforce Needs: A National and Montana Perspective



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Train more...

AAMC has projected shortages for both primary care and subspecialties

	Primary Care	Subspecialties
2010	9,000	4,700
2015	29,800	33,100
2020	45,400	46,100

Source: AAMC Projections, 2010

Health Care Reform: likely workforce implications

30M newly insured?

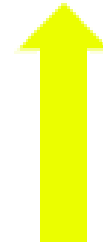


Utilization



Physician demand

Bend the cost curve?



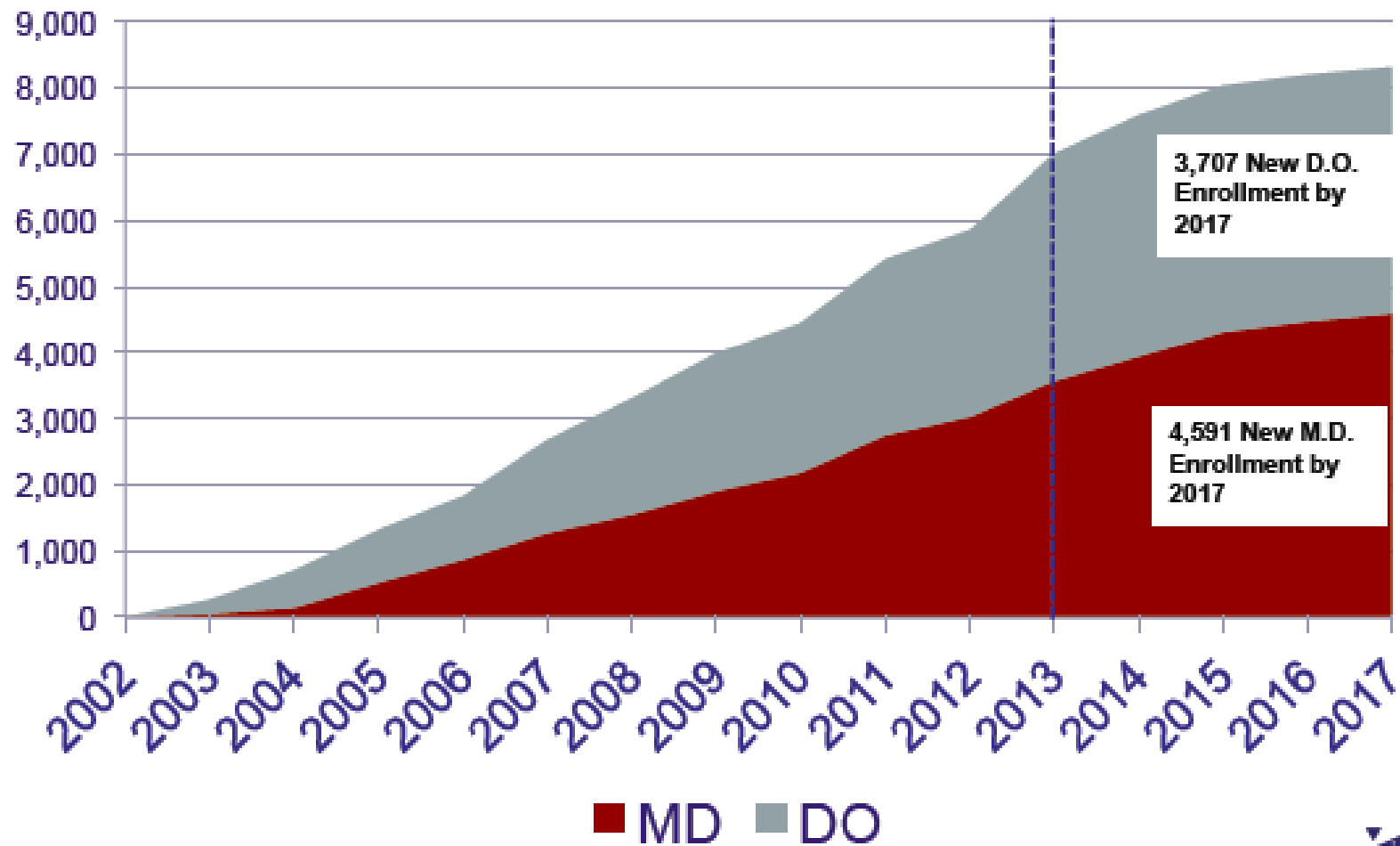
Efficiency

Cost sharing



Physician demand

Train more: MD and DO medical school growth since 2002

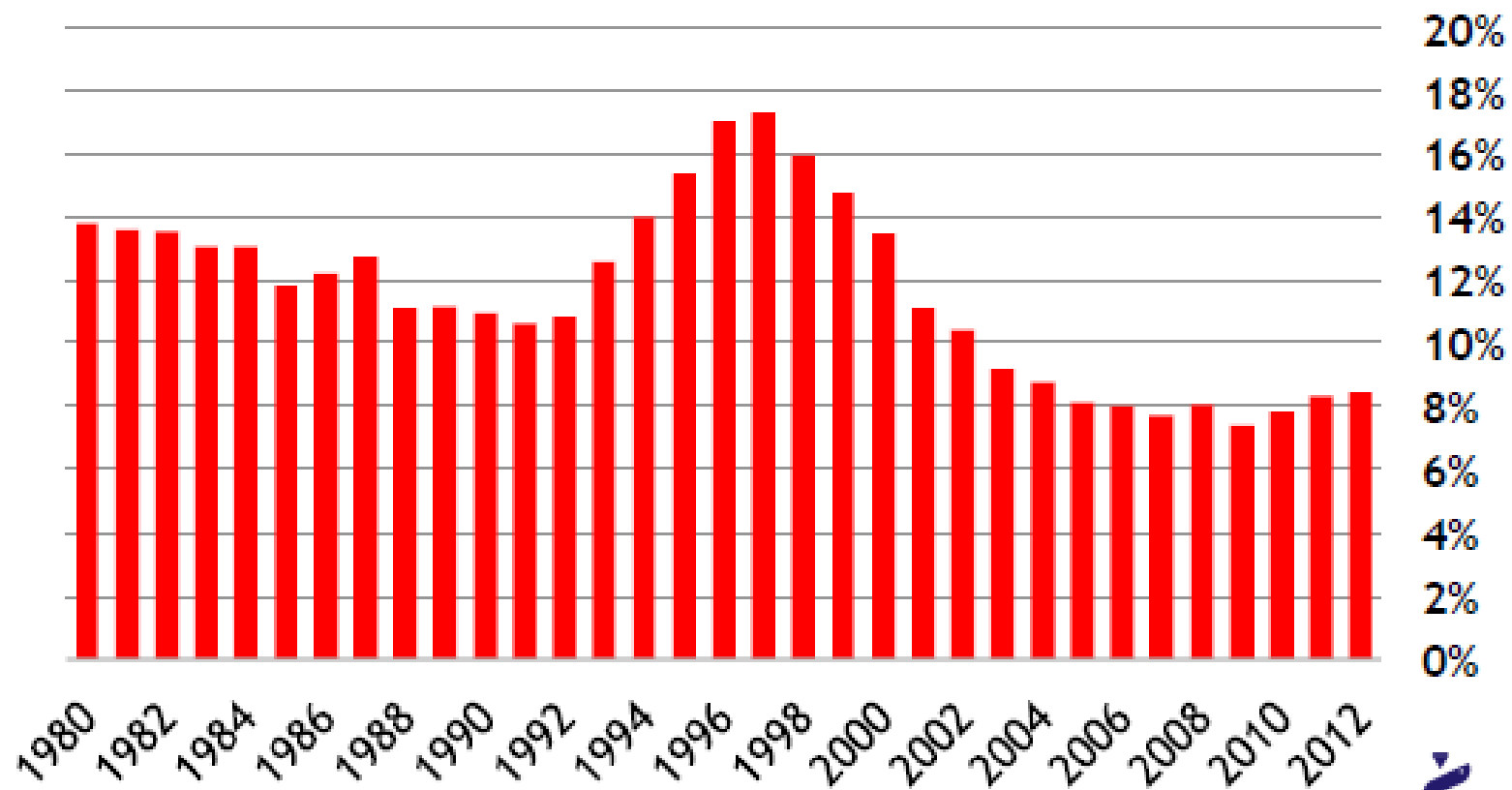


Source: AAMC, AACOM Annual Enrollment Surveys through 2013



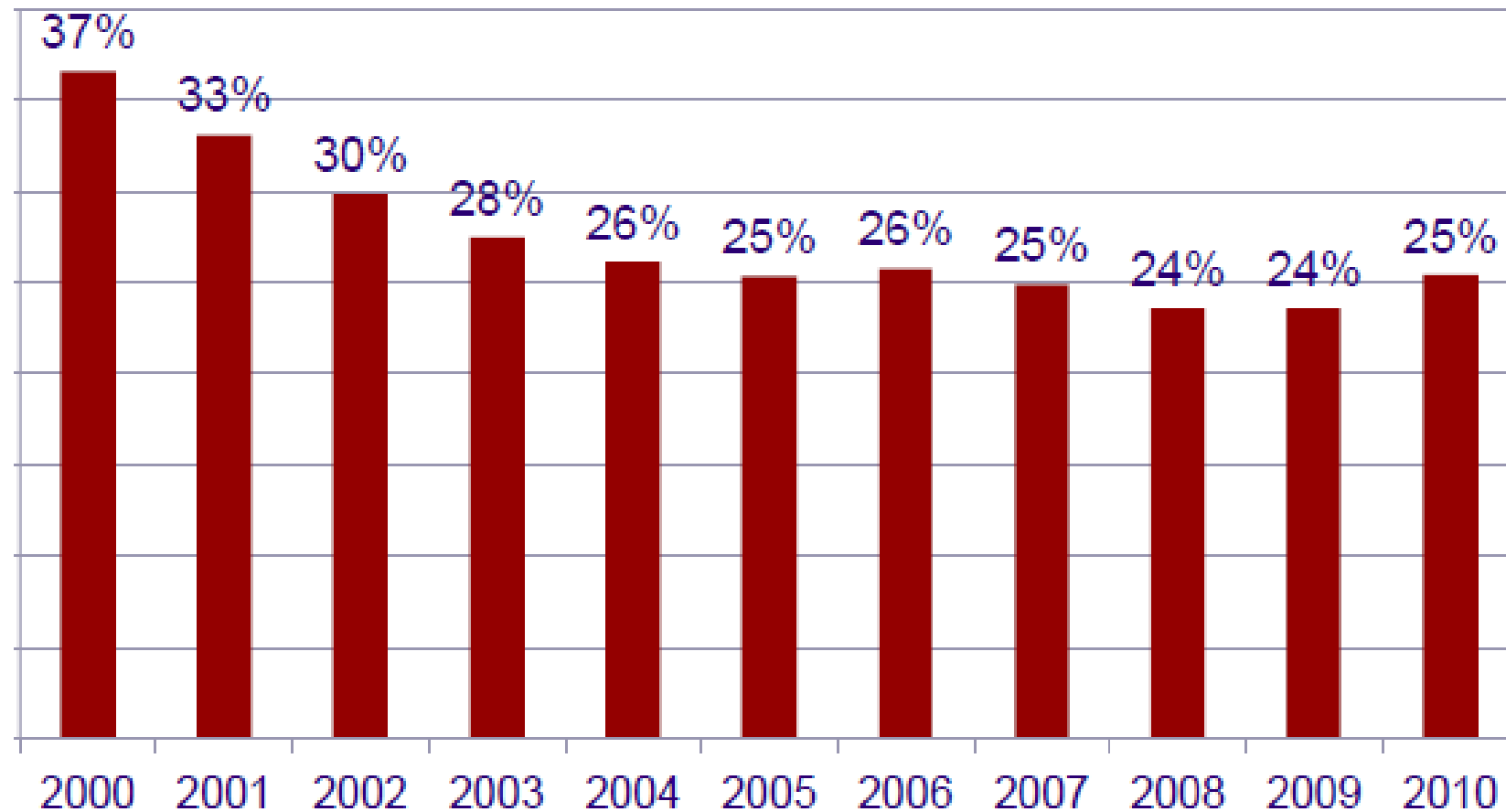
Percent of US Medical School Seniors Matching into Family Medicine

* Includes only those US allopathic seniors who were matched



Rate of USMDs likely to become PCPs: stabilizing?

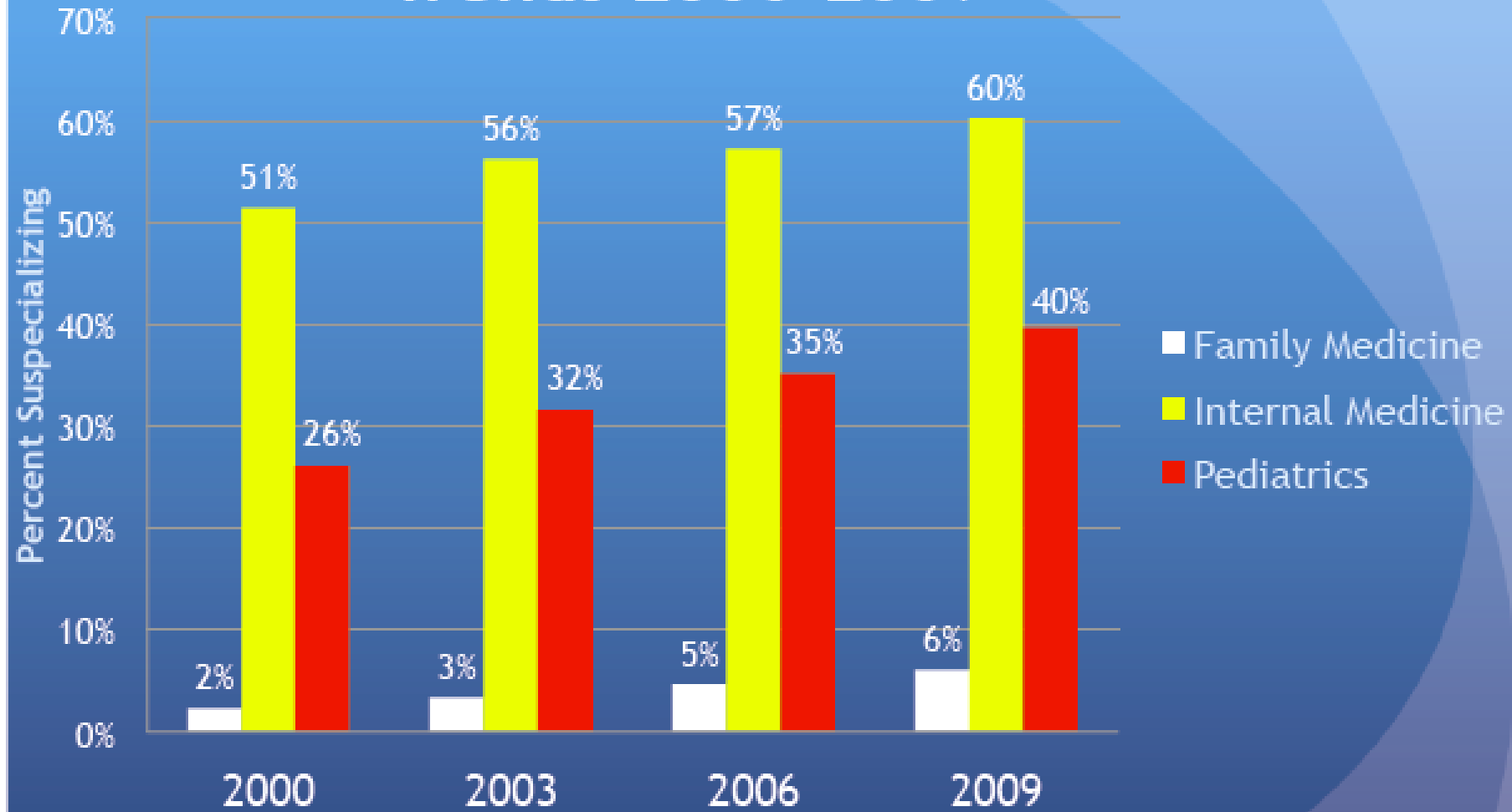
Percent USMD PGY-1 Residents Likely to Become PCPs



Source: GME Track (Paul Jolly)

Notes: Percent equals 1) number USMDs entering IM, FM, or Peds minus number entering IM Subspecialties or Ped Subspecialties that same year 2) divided by number of PGY1 entrants.

Primary Care Sub-Specialization Trends 2000-2009



Data source: GME Track, AAMC 2010

Student characteristics aligned with primary care specialty choice

Independent predictors of primary care interest and practice (based on analyses of 1995-2004 medical school graduates):

- Older age
- Female
- Rural background
- Inverse relationship to parental education level
- Attending a public medical school
- Lower MCAT
- Higher GPA

Changes in Attributes of Medical School Matriculants

Matriculating student data from MD school applications (AMCAS)

% of Matriculants

	1999-2001	2009-2011
Rural Birth County	6.7	4.1
Minority (Black/AA, Hispanic, Indian/American Native)	14.3	16.1
Parental Education:		
PhD, MD/DO, DDS	29.1	36.8
Less than college degree	18.8	13.3
Mean Parent income, 2011 dollars	\$159, 500	\$172,000

Changes in Interests of Medical School Matriculants

Student self-report from AAMC Matriculating Student Questionnaire

	% of Respondents	
	1999-2001	2009-2011
Plan to work in underserved area	21	24
Plan to work primarily with minority population	14	15
Plan to go into Primary Care	48	38
Practice in a rural town/ small city	14	9
Practice setting undecided	19	22

Montana

► 4th largest state

► 44th in population

► 56 counties

➤ 1- urban (>50/sq. mile)

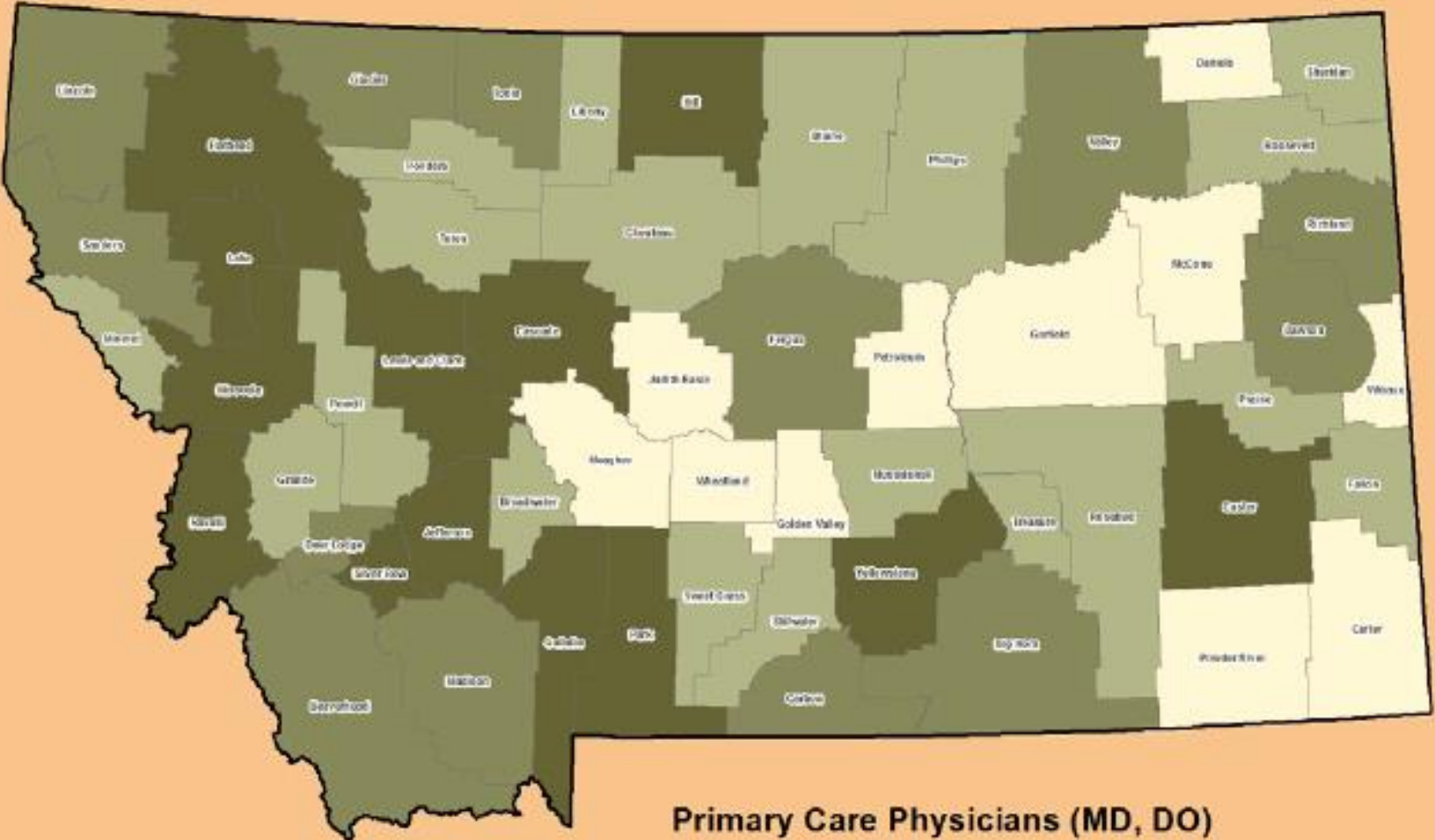
➤ 10-rural (6-50/sq. mile)

➤ 45-frontier (< 6/sq. mile)

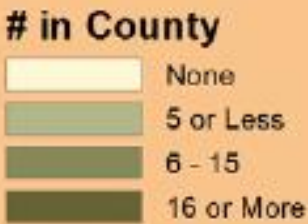
Primary Care in Montana

- 11/56 counties without a primary care physician
 - 19,635 residents in those counties
- 33/56 counties with fewer primary care physicians than national average
 - 308,648 residents in those counties

Montana Health Care Delivery System 2010 Primary Care Physicians (MD, DO) (Total number = 1,187)



Primary Care Physicians (MD, DO)




Data Source: Montana Dept. of Labor and Industry (April 2011)

Maps created by the
Petron Consulting
June 2011

Montana Physician Demographics

- ▶ MT physicians age 60 or older 31.2%, 3rd oldest in the nation
 - National average 27.6%
- ▶ 2,297 practicing physicians 2012
 - 33rd in total physicians per capita

Barriers to recruiting to rural and remote

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- An outline map of the United States is positioned on the left side of the slide. A large, dark grey arrow points from the left edge of the slide towards the title. A black-bordered box is overlaid on the right side of the map, containing a list of five barriers to recruiting to rural and remote areas. The list items are preceded by dark grey arrowheads pointing to the right.
- Lack of spousal employment
 - Lack of cultural activities
 - Insufficient housing
 - Poor-quality schools
 - Inadequate compensation

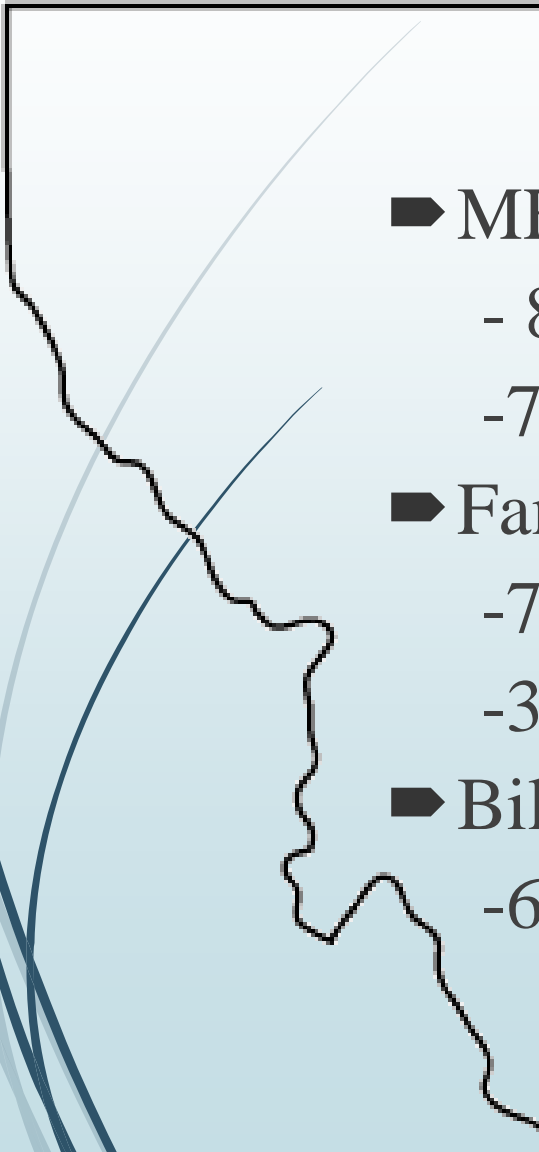
JAMA Rosenblatt 2006

Medical Education in Montana

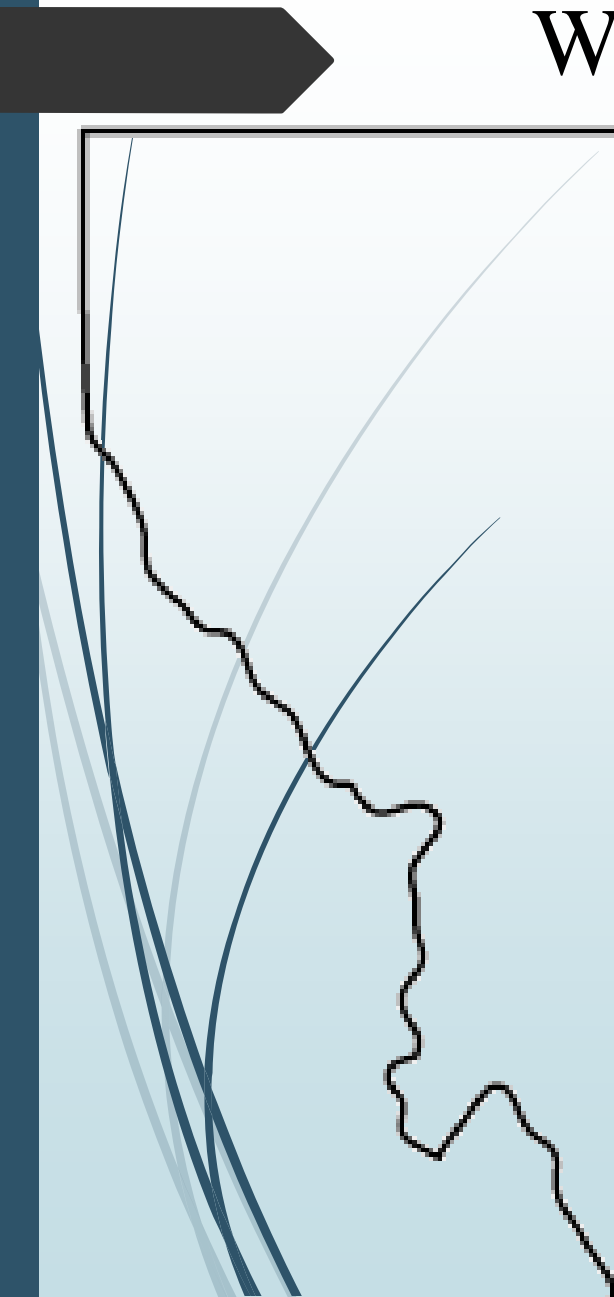
- ▶ WWAMI 30 matriculates yearly
- ▶ WICHE 6 matriculates yearly
- ▶ 55 MD allopathic matriculates yearly from Montana
- ▶ MT 14.3 MD medical students per 100,000
- ▶ US average 25.7



GME in Montana- 47th nationally per capita

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- ▶ MFMR- Billings 1995
 - 8 FM residents yearly
 - 70 % retention rate
 - ▶ Family Medicine Residency of Western Montana 2013
 - 7 residents Missoula
 - 3 residents Kalispell
 - ▶ Billings Clinic Internal Medicine Residency 2014
 - 6 residents yearly

Future Strategies to Improve the Physician Workforce Needs in Montana

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- Robust Pipeline
 - AHEC programs
 - Underrepresented groups into medicine
 - Focused expansion of WWAMI
 - Workforce driven
 - Scholarship opportunities
 - GME expansion
 - Psychiatry
 - Pediatrics, Surgery, Ob/GYN???
 - Recruitment and retention
 - Loan repayment, other incentives