Issue [1]: Special Needs in Rural America and Implications for Workforce Education and Training

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This Presentation in One Slide

- Rural populations less healthy on almost every measure
- Need to foment a "Copernican Revolution" to reframe GME policy to put patients at center of discussions
- Need to align training and financing to address rural population's "essential health care services"
 - Promote generalist training and practice
 - Encourage team-based models of care
 - Develop more community-based training to match shift in care
- Good news: we can build on "bright spots" and work already underway to address rural health needs and build rural workforce

Rural populations are less healthy across most metrics

- On nearly every measure, rural communities have poorer social determinants of health, access to health care, and health behaviors: all leading to worse health outcomes Exceptions: sexually transmitted infections (e.g. chlamydia) and alcohol use
- "Over-represented" causes of death in rural areas are motor vehicle accidents, other non-transport accidents, suicide by gun, acute myocardial infarction
- Note workforce implications (e.g. trauma/EMS, general surgery, behavioral health, primary care)

Sources: G. Mark Holmes PhD, Director, Rural Health Research Program, Cecil G. Sheps Center for Health Services Research, UNC-CH https://www.shepscenter.unc.edu/product/rural-health-snapshot-2017/

Emergency Medical Center	x		x		x	х			x	communities. Refiects
Urgent Care Center	x					x			x	balance of traditional
Virtual Care Strategies	x	х	x						x	
Frontier Health System	x	х	x	x	x	x	х		x	health care services (e.g.
Rural Hospital-Health	x	v	х	x		х		х		
Clinic Strategy	^	x	^	~		~		^	x	primary care) but also
Indian Health Services	x	x	x	x	x	x	x	~	x	primary care) but also
Indian Health Services Strategies	x	x	x	x		x		~		primary care) but also enabling social services
Indian Health Services	x	x	x	x		x		~		enabling social services
Indian Health Services Strategies	x	x	x	x		x		~		

Î

х

X

х

Dentistry

services

Figure 4: AHA Task Force on Vulnerable Communities Essential Health Care Services **Essential Health Care Service**



Primary

x

x



x

x



x

x



x

х

x

1 ED and Prenatal Diagnostic ome can and substance observation care services use treatment care х

x

х

X

Hospital Association completed a Task Force on **Ensuring Access in Vulnerable Communities** and identified essential *health services* in rural communities Reflects <u>y</u>.

In 2016, the American

Putting patients' essential health care services at the center of GME policy discussions

Need a Copernican revolution in GME that starts with different question. <u>Not</u> how many physicians do we need? But instead: what essential health care services are needed in rural areas?

- Primary Care
- Behavioral health and substance abuse/ opioid use disorders
- Obstetrics and prenatal care
- General surgery, trauma and procedural care
- Long-term and home health care

And acknowledges the interdependence of different physician specialties...



Source: National Geographic Society https://goo.gl/images/j6Lh4G



"For the one-quarter of Americans who live outside metropolitan areas, general surgeons are the essential ingredient that keeps full-service medical care within reach. Without general surgeons as backup, family practitioners can't deliver babies, emergency rooms can't take trauma cases, and most internists won't do complicated procedures such as colonoscopies."



Washington Post, January 1, 2009

A focus on patients' essential health care requirements highlights need for teams of providers Example: rural obstetric services

"From 2004 to 2014, 9 percent of all rural counties lost access to hospital obstetric services, and **more than half of all rural counties** in this country are now without a single local hospital where women can get prenatal care and deliver babies."¹

"In rural US counties not adjacent to urban areas, loss of hospital-based obstetric services, compared with counties with continual services, was associated with increases in out-of-hospital and preterm births"²

Increasing access to obstetric and prenatal services in rural communities requires a range of health professionals that are all interdependent on one another

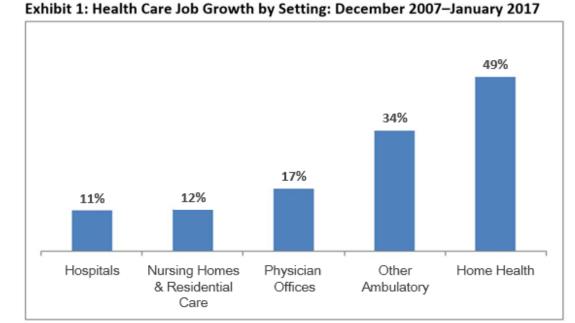
1 Pearson C & Taylor F. Mountain maternity wards closing, WNC women's lives on the line. *Carolina Public Press.* 25 September 2017. Accessed 10 Oct 2017 at: https://carolinapublicpress.org/27485/mountain-maternity-wards-closing/

2 Kozhimannil, KB et al. "Association between of Loss of Hospital-Based Obstetric Services and Birth Outcomes in Rural Counties in the United States". JAMA. 2018;319(12):1239-1247



Increased emphasis on social determinants of health and payment incentives are shifting care upstream to outpatient, community and home settings

- Shift from fee-for-service to value-based payments and fines that penalize hospitals for readmissions are shifting care from inpatient to ambulatory and communitybased settings
- Medicare Advantage plans, Medicaid and Department of Veteran Affairs increasingly referring more patients for home health and community-based services
- But most GME funding goes to hospitals



Source: Authors' analysis of BLS Current Employment Statistics data.

Turner A, Roehrig C, Hempstead K. What's Behind 2.5 Million New Health Jobs? *Health Affairs* Blog. March 17, 2017. http://healthaffairs.org/blog/2017/03/17/whats-behind-2-5-million-new-health-jobs/



These shifts require investing in training in communitybased settings and training teams of providers

- Need to enhance training in community-based settings
- Encourage GME training in team-based models of care that include "traditional" health professionals as well as other providers
- Example: Social workers in integrated behavioral health and primary care models who serve as*:
 - Behavioral health specialists: provide interventions for mental, behavioral health and substance abuse disorders
 - Care Managers: coordinate, monitor and assess treatment plans
 - Referral role: connect patients to community resources, transportation, food etc.

*Fraser MW, Lombardi BM, Wu S, Zerden LD, Richman EL, Fraher EP. Social work in integrated primary care: A systematic review. Journal of Social Work and Research. 2018; 9(2):0-36.



Rural communities use "asset-based" approach and adjust team structures and services to make use of local providers

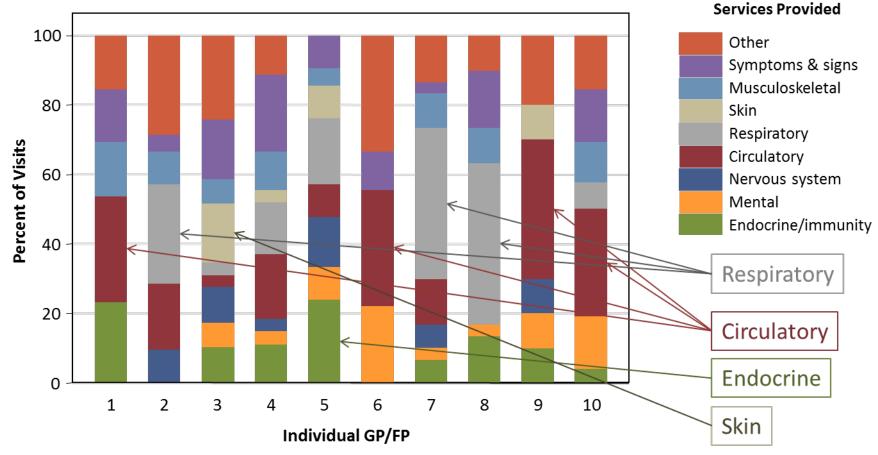
- Providers in rural communities are generally more "plastic"
- 2. Key plasticity concepts:
- Scope of services provided by different physician specialties and professions <u>overlap</u> and are <u>dynamic</u>
- Two types of plasticity:
 - <u>Between</u> plasticity: describes differences in scope of services between specialties and professions
 - <u>Within</u> plasticity: describes differences in scope of services within same profession or specialty





Family Physicians are Very "Plastic", as are other generalists

Scopes of services for 10 GP/FP in NAMCS



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What determines a health professional's plasticity?

- Density/availability of other providers with similar/competing scopes of practice
- Local geography
- Patient population
- Payment model
- Model of care and referral patterns

- Personal preferences and demographic characteristics
- Regulation
- Hospital executives, practice managers and HR decisions about deployment and payment
- Professional's education and training (initial and ongoing)

Conclusions

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