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Need for General Surgeons in Kentucky's Communities

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Need for General Surgeons in Kentucky's Communities

Abstract

Objective

Examine the distribution of general surgeons and need for them throughout their characteristics in terms of practice location and practice type, e.g. based private practice, hospital based, and contracted.

Methods

A review of policy and other research literature was conducted to determine trends in the availability of general surgeons for community hospitals and high need rural areas. Data for 2011 from the Kentucky Board of Medical Licensure was the main source for this study. Data showing the distribution of general surgeons were coded for location by county using the 2003 Rural-Urban Continuum Codes.

Results

As a state Kentucky has an shortage of general surgeons in some rural counties when compared to national norms and a mal-distribution in which rural and smaller communities are the most underserved. International Medical Graduates (IMGs) fill the need gap much less in Kentucky compared to states such as New York, New Jersey, Illinois, Texas and Tennessee which have much greater proportions of IMGs as part of their physician workforce.

Conclusions

The shortage of general surgeons has serious implications for the economic viability of many Kentucky community hospitals, as they have been crucial to revenue streams for these hospitals. While the trends toward contracted and hospital-based services offer some temporary relief, longer-term policies should be examined, including higher reimbursement rates and incentives for IMGs who are general surgeons to locate in underserved areas of Kentucky

Background

- A longitudinal study published in the Archives of Surgery on general surgeons from 1981 to 2005 shows a continual decline. There are 723 fewer general surgeons practicing today than were in 1981. The general surgeon to population ratio decreased steadily across the study period, from 7.68 per 100,000 in 1981 to 5.69 per 100,000 in 2005. The overall number of general surgeons has remained static since 1994, despite an increase in the population during this period. This coupled with the rise in surgical specialization and the decreased interest among medical students in general surgical careers has raised concern over a shortage.¹
- The 2008 Archives of Surgery study also found that in rural areas, including counties that are adjacent to urban counties and those that have cities with at least 10,000 to 50,000 residents, the ratio was 5.02 surgeons per 100,000 population, a decrease of 21% from 6.36 in 1981.
- The numbers are worse, though, looking at less-populated counties not adjacent to an urban area and without a city of at least 10,000 people, a type of region highly dependent on general surgeons for emergency care.¹ Such counties had only 4.31 surgeons per 100,000 in 2005 and were down 16% from 5.15 in 1981.
- Surgeons are not attracted to the rural lifestyle for a number of reasons. After typically getting trained in a more urban environment, nascent general surgeons have grown accustomed to medical technology that often isn't available in rural settings, says Jess Judy, senior vice president of provider relations at LifePoint Hospitals, a forprofit chain based in Brentwood, Tenn., with a high concentration of rural and sole community hospitals.²
- Gerald Doeksen, director of the National Center for Rural Health Works, argues that some regions simply might not be big enough to support a surgeon. Doeksen says a community needs at least 15,000 to 20,000 residents to support a surgeon economically speaking. But in communities that size there are quality-of-life issues that make it harder to attract surgeons to live and work there.² Doeksen believes areas served by critical-access hospitals are too small to support a general surgeon.

Presenter: Willie Bates, MBA

University of Kentucky, Center for Excellence in Rural Health Hazard, KY

Results

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Table 4

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Table 5: Location Kentucky Counties Status

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o metro area	3	14	4.4
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etro area	15	25	7.8
cent to a metro area	21	61	19.1
nt to a metro area	3	3	0.9
acent to a metro area	2	9	2.8
Total	67	319	100.0

s without a General Surgeon							
	Counties	Percent					
	3	5.7					
	5	9.4					
	9	17.0					
ation, adj. to metro area	10	18.9					
ation, not adj. to metro area	16	30.2					
ent to a metro area	7	13.2					
djacent to a metro area	3	5.7					
Total	53	100.0					

Appreciation is extended to the Kentucky Board of Medical Licensure for supplying physician workforce data for 2011.

- 2. Modern Health Care. Accessed March 24, 2012

- 2008;206(5):790-795.



Conclusions

ky's ratio of general surgeons to population is currently slightly more le than the national rate in both metropolitan and rural areas. jority of general surgeons are concentrated in 18 counties in plitan areas (60.5%) where there are larger community hospitals and edical centers.

ent with the distribution throughout the State of other physicians, there able concentration of general surgeons (19.1%) in the 21 counties ed as "nonmetro urban population of 2,500-19,999, not adjacent to a rea."

nmetro counties with an urban population of 20,000 or more, adjacent adjacent to a metropolitan area, have the lowest rates of general

ounties classified as "nonmetro completely rural or < 2,500 urban on" have been relatively successful in attracting general surgeons.

Discussion

eons are important for the array of services provided by hospitals and ic viability. It has been estimated that general surgeons add between .4 million to a hospital's revenue annually, which can be crucial to the ess of community hospitals in an increasingly challenging operating It is important to continue to monitor trends in the distribution of eneral surgeon workforce and develop health workforce policies that ontinuance of an adequate supply of general surgeons for the State.

believed that small communities cannot attract general surgeons festyle considerations. It is said that the demand of being on-call and ds are too great for a single surgeon and that it is better to try to recruit urgeons so that they can provide backup coverage for each other. Also rend has been for younger medical students not to be interested in neral surgeons. Mentoring of medical students by general surgeons by ased general surgeons is thought to have the potential to interest more ents in choosing this vital medical specialization.³ This and exposure of ents through rural medical campus programs have the potential to nterest.

Ilation nonmetro counties in Kentucky have creatively and effectively pital-based practices as a means for attracting general surgeons, as contrasted with metropolitan counties. This is a testament to the innovativeness and strength of strategically located mid-sized community hospitals. Also 28 nonmetro counties with the location of a critical access hospital have general surgeons, which is contrary to the projections of some health workforce analysts.

It is desirable for all Kentuckians to have an effective distribution of general surgeons to assure needed care and affordable access. This is especially true for a State such as Kentucky that has 85 of its 120 counties classified as rural based on the Rural-Urban Continuum codes and in which travel to metropolitan centers is time consuming and costly.

Acknowledgements

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