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#### Meeting the Healthcare Needs of a Rural State

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#### Meeting the Healthcare Needs of a Rural State

#### Abstract

The question of how to provide timely and effective healthcare to residents of rural states is being discussed at both local and national levels. Idaho is included in these discussions because many of the state's residents live in rural and frontier areas and have limited healthcare access. Telehealth, the use of technology to deliver healthcare remotely, has the potential to change the healthcare landscape throughout Idaho. Currently, the state is lacking a much-needed integrated telehealth system to deliver quality care in rural areas. This presentation will identify the many factors which create a need for telehealth services in Idaho. These findings will be contrasted with findings from states with a current integrated telehealth system. Finally, the presentation will conclude with an evaluation of the remaining obstacles to establishing a statewide-integrated telehealth system.

#### **Keywords**

telehealth, rural health, Idaho, telemedicine, Alaska

#### Disciplines

Health Services Research | Other Public Health





### INTRODUCTION

Telehealth and telemedicine technologies have the potential to change the healthcare landscape throughout Idaho. Telehealth is the use of technology to deliver healthcare remotely. Telemedicine is the remote diagnosis and treatment of patients by means of telecommunications technology. Telemedicine is the remote diagnosis and treatment of patients by means of telecommunications technology, such as two-way video and audio, email, and smart phones. These technologies have been shown to save patients, providers, and insurers millions of dollars, while improving the efficiency

of the healthcare system (Hudson, 2005).

Many of Idaho's residents live in rural and frontier areas with limited healthcare access. Currently, the state is lacking a much-needed, integrated telehealth system to deliver quality healthcare in rural areas.

The purpose of this research was to identify the factors that create a need for telehealth services in Idaho and compare these conditions to Alaska, a state which enjoys the largest fully integrated telehealth system in the world.

# **RESEARCH METHODS**

The following data sources were used in this study. Annual reports of the American Medical Association from 1996 to 2011, obtained from the Indicators Idaho website. Data was extracted and used to compare physician rates throughout the United States. Data on state demographics was obtained from the United States Census Bureau, the Centers for Disease

- Control and Prevention, and the United States Department of Health and Human Services Health **Resources and Services Administration.**
- 3. Findings published by the Institute of Social and Economic Research on Alaska's telehealth system were reviewed to describe the history, implementation, and effects of the state's telehealth system established in 1996.

# **Meeting the Healthcare Needs of a Rural State**

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### RESULTS





# Idaho and Alaska

Idaho	Alaska
50	31
29%	34%
11 <sup>th</sup>	1st
39th	47th
15.1%	9.6%
44th	50th
6th	2nd
84%	77%
No	No
100%	83%
	Idaho   50   29%   11 <sup>th</sup> 39th   15.1%   44th   6th   84%   No   100%

Services, Health Resources and Services Administration (2014), and the United States Census Bureau (2010).





The potential impact of telehealth in Idaho can be realized by its impact in Alaska. Alaska's telehealth network, the Alaska Federal Health Care Access Network (AFHCAN), has allowed the following (Hudson, 2005): Cost

- 2012
- on travel

### Quality

- 25 % of primary care patients
- days, respectively since 2003 Access

- since 2001

Idaho and Alaska are rural states that share a similar healthcare landscape. Over the last decade, growth in the number of physicians in Idaho has lagged behind Alaska's growth. Following the implementation of telehealth in 1996, Alaska grew their physician workforce and targeted three main healthcare concerns – access, quality, and cost. Idaho has the opportunity to address these concerns with a similar integrated telehealth system. This infrastructure has the potential to benefit rural Idaho residents who represent 29% of the population.

Barriers to a statewide system include reimbursement, cost, fear of change, and licensure. Future initiatives should focus on developing sustainable telehealth component in rural communities across America.

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### RESULTS

Saved Alaska at least \$38 million since 2003 Saved Alaska \$8.5 million in travel for Medicaid patients in

Every \$1 spent by Medicaid on reimbursement saves \$10.54

Eliminated travel for 75 % of specialty care patients and Prevented 4,777 and 1,444 lost work days and lost school

Covers 40% of the population (212,000 beneficiaries) 3,000+ providers have engaged in 160,000 telehealth visits

### CONCLUSIONS

# REFERENCES