Avel eCare Emergency Telemedicine in Rural ED Settings



Speaker

Kelly Rhone, MD, FACEP Vice President, Innovation and Outreach Avel eCare

Agenda

- Background on Avel eCare
- How Tele-Emergency Works
- Impact
- · Q&A

Background



Stats

120 Hospitals have closed in the past 10 years

31 states have seen at least one rural hospital shut down

49% of community hospitals report an operating margin of less than 2%

*Beckers Hospital Review





CHALLENGE: Workforce

Over the past 10 years, ED visits are up **24.7%**

Average time spent waiting in ED before seeing a physician, NP or PA –

24 minutes

Shortages exist in staffing

96% of Medical Professionals Agree that Burnout is an issue.

65% believe that it is a serious problem.

Burnout



Avel Telemedicine Guiding Principles

Since 1993, Avel experts have been pushing the boundaries of telehealth and expanding care to impact millions of patients in rural communities spread out across America. We are a virtual health system that helps providers maintain, retain, and grow their services.







Improve Care and Outcomes

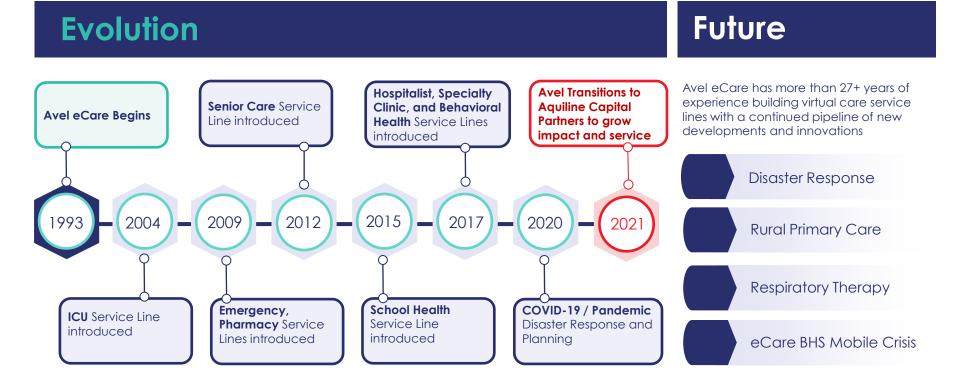


Lower Costs



Improve Workforce Sustainability

Avel: Three Decades as a Virtual Care Leader

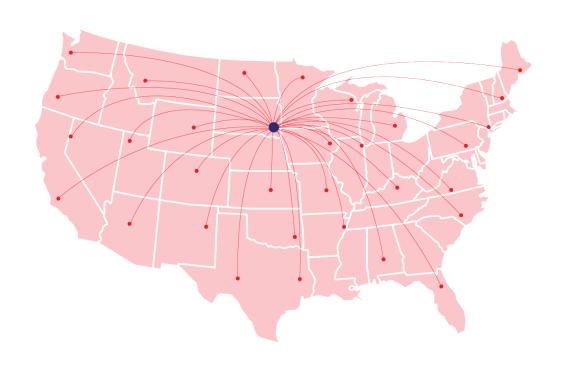


Stats (continued)

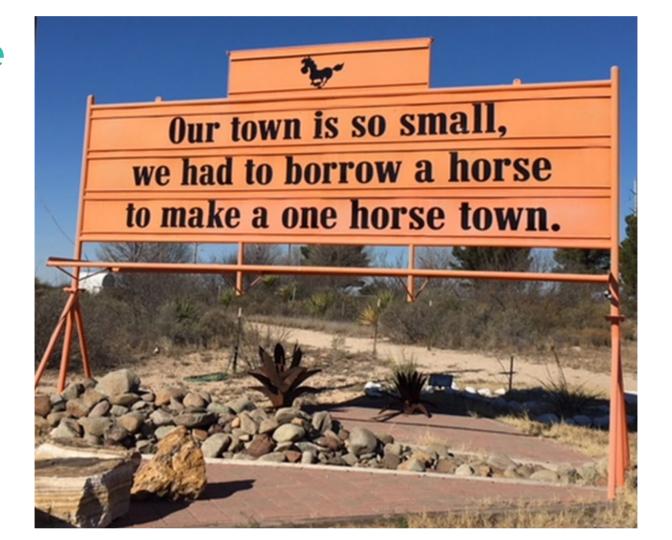
25+ years of Delivering Telehealth Services

Over 600 sites in 32 states

Serves 17% of all Critical Access Hospitals in the nation



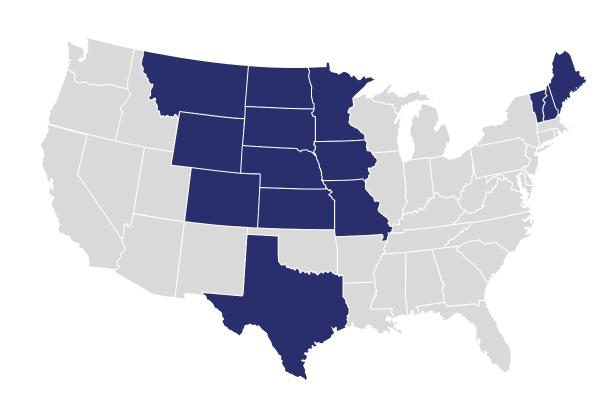
Horse



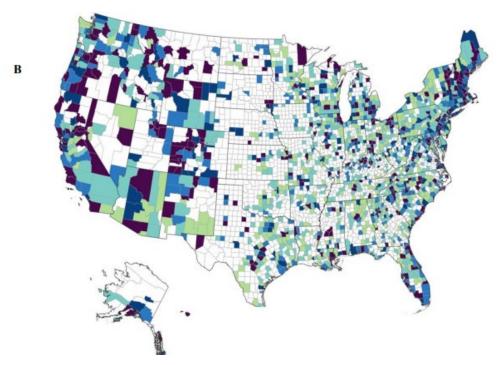
Avel eCare Emergency Footprint

14 States

210 Total Hospitals



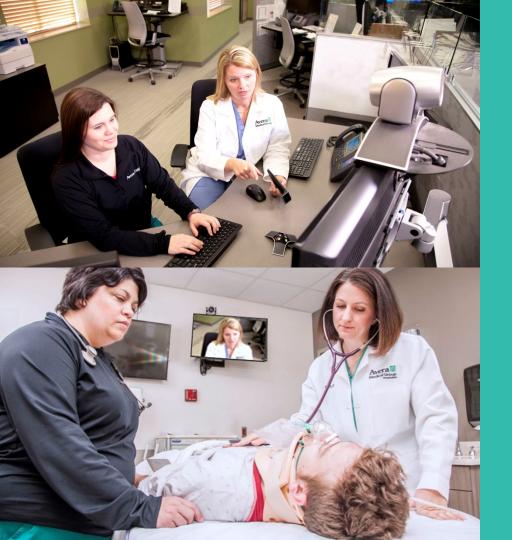
Physician Density



Emergency physician density per 100,000 population by county. B: Emergency medicinetrained or emergency medicine board-certified emergency physicians

ACEP Rural Emergency Care Task Force Report to Board of Directors, October 2020

How Tele-Emergency Works



Video Access

Immediate video access to board-certified emergency physicians and nurses

Technology



Technology in Practice

Technology Package includes equipment for 2 bays:

- (2) 32" HD TV's
- (2) Polycom HD cameras with 20x zoom
- Microphone/speaker
- Additional supporting equipment:
 King Vision Laryngoscope;
 GlideScope



Emergency Room Fixed Equipment



ALGO Speaker

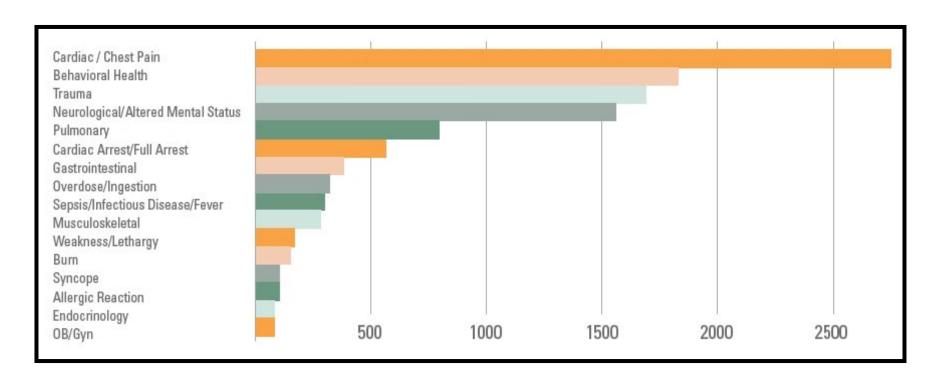


King Vision Laryngoscope



GlideScope

Range of Services



Benefits

24/7 Access

- Instant access to specialty support during difficult or multiple emergency cases
- Behavioral Health assessments
- Initiate diagnostic testing

Collaboration

- Improve recruitment and retention by providing a collaborative partnership
- Leverage APP staffing model, if appropriate

Immediate Support

- Enhance quality of care by timelier medical interventions
- Nursing documentation support
- Translation services

Transfer Assistance

 Additional support with patient transfers or eliminate unnecessary transfers

Benefits Continued

Experience

200+ sites

Video Encounters
Telephone
Support
Transfer Support

Quality

Hub physician was available an average of

17-21

minutes*

sooner than the local physician

Recruitment

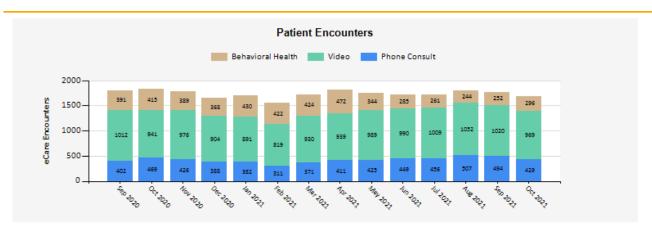
91.2% of clinicians

believe that eCare Emergency helped with recruitment and retention

Impact of Tele-emergency

Avel Outcomes





The number of eCARE Emergency patient related encounters.

- Video two-way video communication with eCare ED
- Phone Consult non-video clinical consult
- Behavioral Health Behavioral Health Assessments.

Workforce Impact



Of those surveyed, 92.6% of providers using eCARE Emergency agreed that "the availability of tele-emergency helps with recruitment and retention of health care professionals in my hospital."*



Physician recruitment costs per vacancy can be as high as \$88,000 and average approximately \$30,000. Physician turnover rate is estimated at 6.1% per year.

Nursing Shortage

For nearly a decade, the US has been facing a critical nursing shortage

Over 1 million new registered nurses will be needed by 2030 to meet healthcare demands

The United States
Bureau of Labor
Statistics projects
175,900 openings for
RNs every year until 2029

Understanding the American Nursing Shortage

Facts and stats | Locations | Causes | Effects | Solutions | Takeaway



The New Hork Times

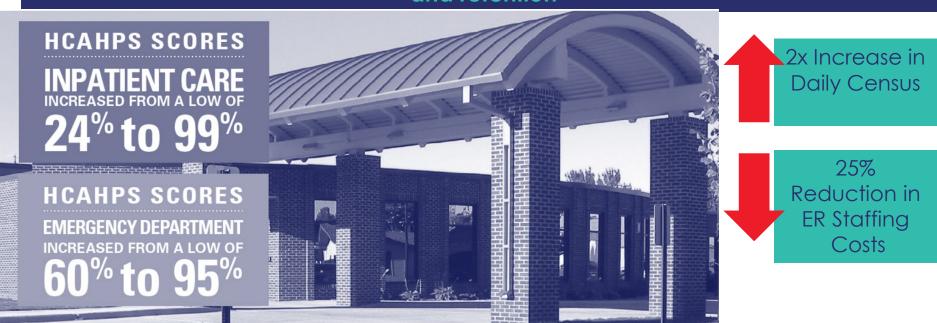
'Nursing Is in Crisis': Staff Shortages Put Patients at Risk

"When hospitals are understaffed, people die," one expert warned as the U.S. health systems reach a breaking point in the face of the Delta variant.

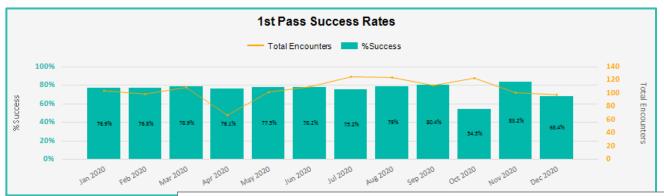
Supporting the Rural Workforce

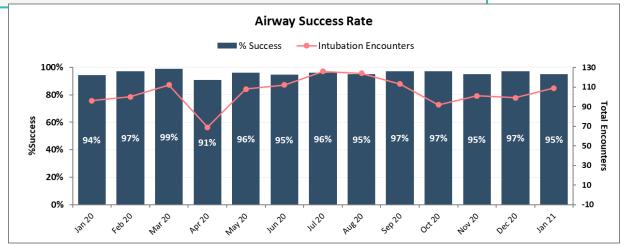
"Tele-ED helps us keep those young physicians here, where they still get to have a family life, time away, and not be tied to their phones."

92.6% of clinicians believe that eCare Emergency has helped with recruitment and retention



Clinical Impact





Real-Time Learning

 Rural ED providers and nurses perceived real-time learning during telemedicine consultations as hands-on learning

Training themes

- Learning occurs frequently
- Training is spontaneous
- Respect and explanation facilitate learning
- Keeps rural practices up to date
- Instills confidence
- Improves performance



Quote

"I've got to admit, the two docs I've got on right now, ... both have made the statement to me directly that if it wasn't for teleemergency, they would not have come out here because they were not comfortable with it."

- Hospital CEO





Thank you!

Kelly Rhone, MD, FACEP

