

Why do we like Uber?

- On demand
- Predictable prices
- Hassle free payments- done before you get in the car
- Immediate feedback
- Quality is measured: you grade the driver
- Comfortable: cars clean
- Experience is usually good, "easy"



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Why we like Uber?

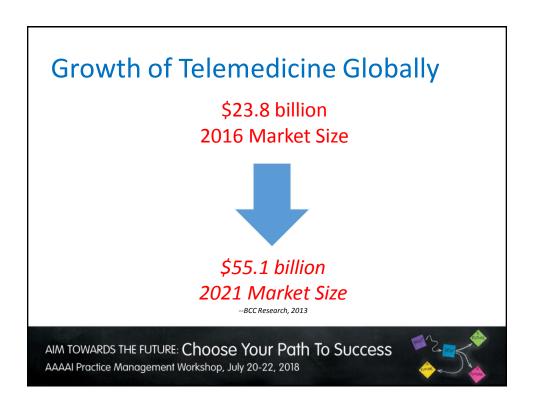
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 Hassle free payments before you get in the car
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Why we would like **Telemedicine?**

- On demand
- Predictable price for the visit.
- Immediate feedback
- Quality is measured
- Comfortable: No travel needed. Open 24/7.
- Experience is also good, "easy"

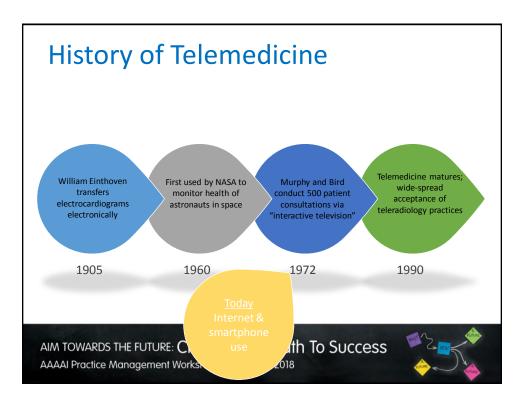








Penicillin Testing Original Article The Use of Telemedicine for Penicillin Allergy Skin Testing Mary L. Staicu, PharmD^a, Anne Marie Holly, RPA-C^b, Kelly M. Conn, PhD^o, and Allison Ramsey, MD^b Rochester, NY What is already known about this topic? Penicillin skin testing is increasingly used as a tool to evaluate penicillin allergy in patients with a reported history, given the significant clinical and financial consequences associated with the penicillin allergy label. What does this article add to our knowledge? This is the first report that assesses and describes the use of real-time, interactive video conferencing or telemedicine to facilitate inpatient penicillin skin testing. How does this study impact current management guidelines? This novel approach optimizes allergy/immunology resources with a high degree of patient satisfaction. The minimal technology and trained personnel required has the potential to enhance patient access to allergy services while optimizing available resources. -Article in Press JACI in Practice, online access May 2018 -46 PST-negative patients, 33 were transitioned to a B-lactam -> \$30,000 was saved throughout the study period. AIM TOWARDS THE FUTURE: Choose Your Path To Success AAAAI Practice Management Workshop, July 20-22, 2018



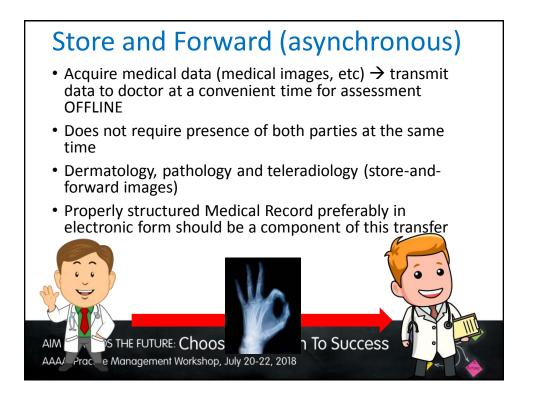
Telemedicine

- "Distance healing"
- Derived from a Greek word "Tele" meaning "distance" and a Latin word "mederi" meaning "to heal"
- Is not one specific technology but a way of providing healthcare services at a distance using telecommunications technology, medical expertise & computer science

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Telemedicine

- Video Conferencing
- Distance Learning
- Types of Telemedicine
 - Asynchronous
 - Provider to Provider
 - Synchronous
 - Provider to Patient & Provider
 - Provider to Patient



Realtime (synchronous)

- As simple as a telephone call or as complex as robotic surgery.
- Requires the presence of both parties at the same time.
- E.g. Video-conferencing equipment
- Peripheral devices can be attached to computers or the video-conferencing equipment to aid in an interactive examination.



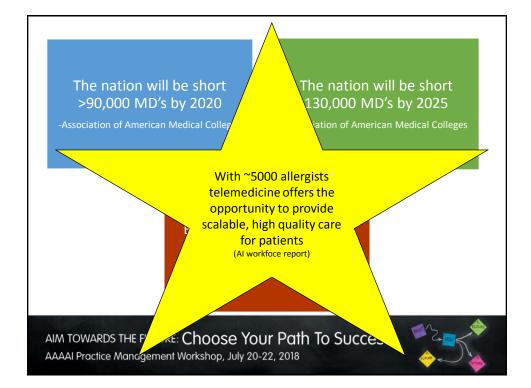
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Asthma costs in US \$56 billion Rhinitis costs in US \$5 billion

Each year, associated with:









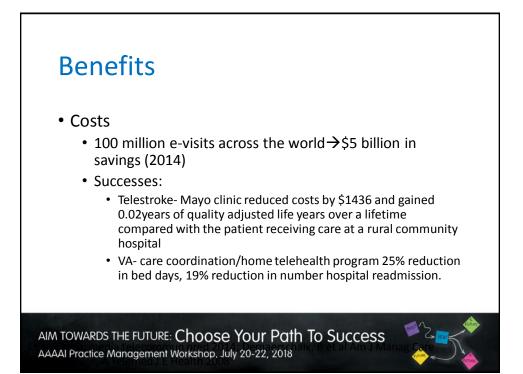
Physician visits

department visits

Hospitalizations

school days annually

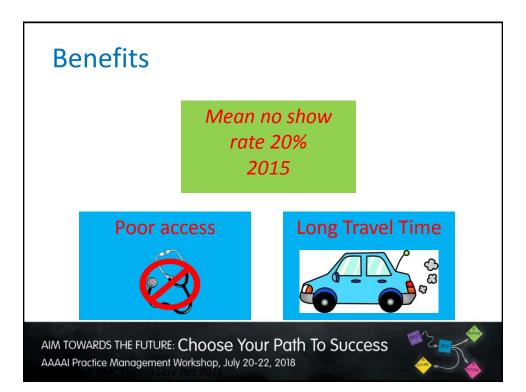
Telemedicine could act as a viable option to reduce these costs.



Estimated Savings For CHOA/Emory Telemedicine Patients*

2015 Statistics Per visit:	Median (Round Trip)	Range (Round Trip)
Miles Saved	362	72 - 504
Cost of miles saved	\$199	\$40 - \$277
Hours Saved Traveling	6	2 - 9
School days *Children greater than 5 y/o and less than 19 y/o	80% of our patients would have missed school to travel to Atlanta	
Work Days Missed *One adult present & greater than 4 hour drive	76% of our parents would have missed a full day of work to travel to Atlanta	

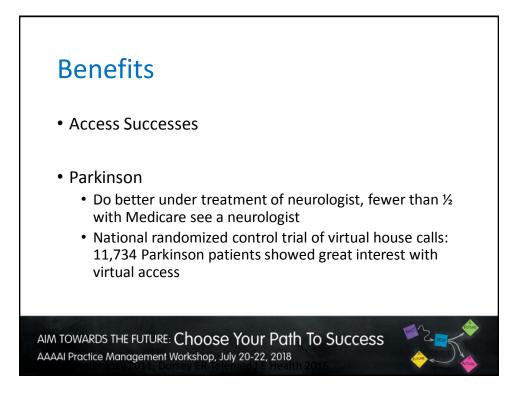
- Patients served live in 73 (46%) of Georgia's 159 counties
- Overall cost of miles saved: \$161,686 (293,786 x 0.55/mile)

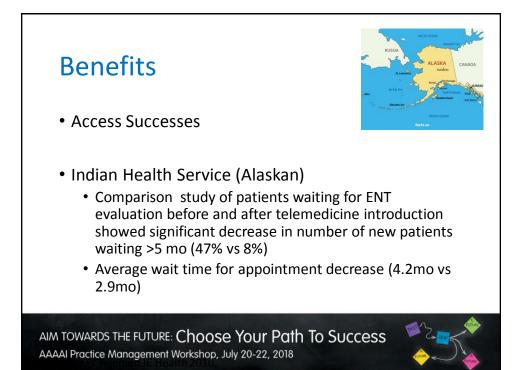


Benefits

- Access
- Underserved-rural and urban setting
- Prison
- School

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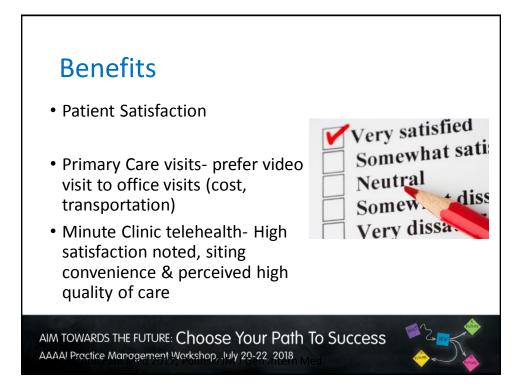


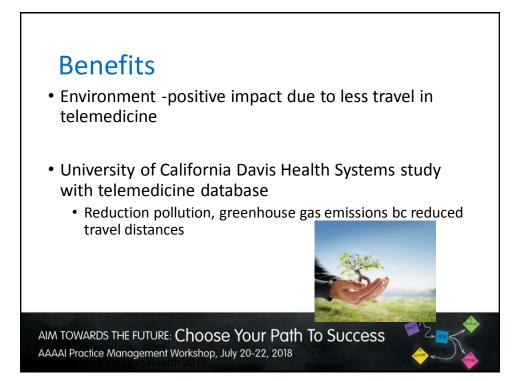
- Access Successes
- Asthma
 - Improved outcomes if involvement of specailists
 - Greatest need in asthma live in underserved areas (rural, inner-city)

Benefits

- Health Outcomes
- Chronic diseases
- Successes
 - Asthma-comparable asthma control in pediatric pt with in person visits vs telemedicine
 - Diabetes
 - CHF
 - Stroke
 - COPD

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Challenges

- Technology
- Licensing
- Credentialing/Privileging
- Accreditations
- Privacy, Confidentiality, Security
- Regulations
- Physician-Patient Relationship

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Challenges

- Credentialing/Privileging
- Privilege by proxy
 - The Joint Commission permits hospitals receiving services to accept distant site hospital's credentialing and privileging decisions.
 - May require change in hospital by laws for adoption

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Challenges

- Accreditations
- ATA
- Utilization Review Accreditation Commission

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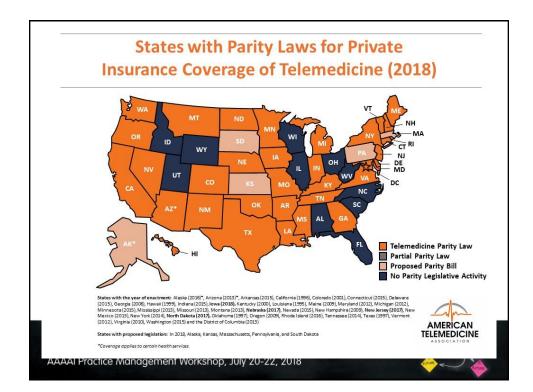
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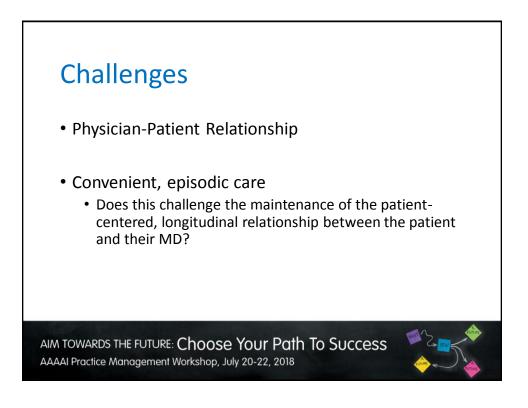
Challenges

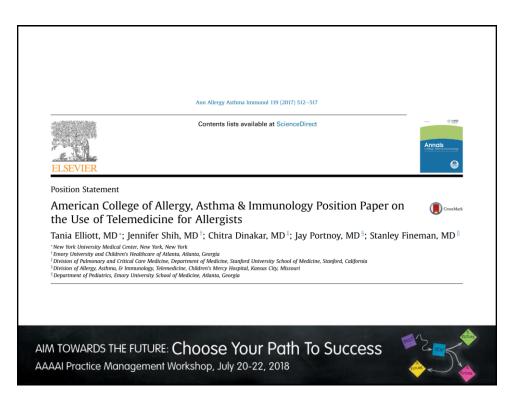
• Regulations

-Evaluation of state telemedicine policies found nearly 50 combinations of requirements, standards, licensure policies

-Reimbursement



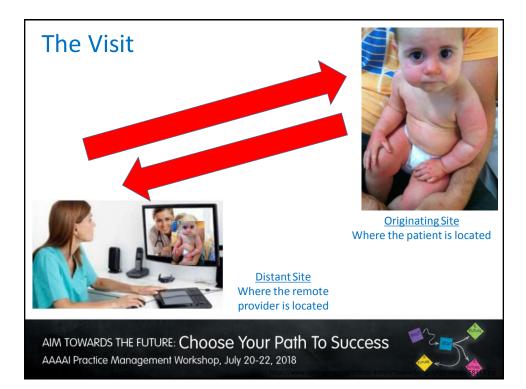


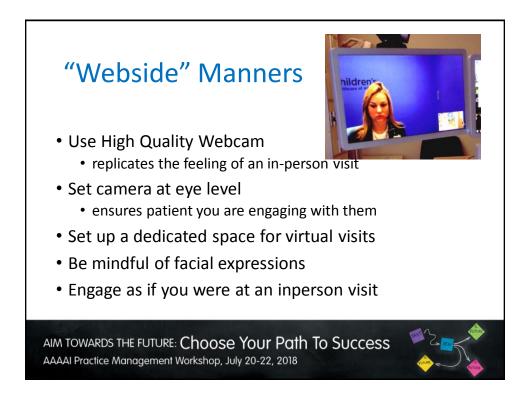


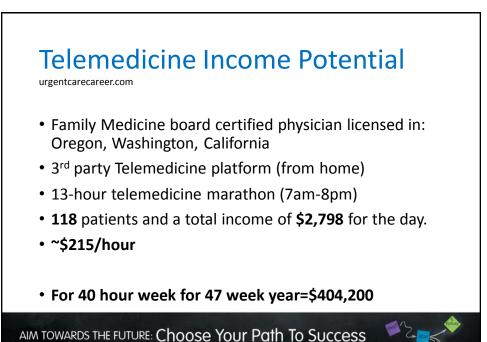
Considerations for Implementation

- The use of telemedicine must be secure and compliant with state and federal regulations.
- Provider groups should confirm that medical liability coverage includes a provision for telemedicine services.
- Quality assurance measures should be in place to track patient satisfaction, physician performance, and clinical outcomes whether at an originating site or via home based telemedicine care.
- Live interactive video visits with allergy patients should be at the same standard of care and held to the same standards of professionalism and ethics as in- person consultations.
- Appropriate technical standards should be upheld throughout the telemedicine care delivery process and specifically meet the standards set forth by the Health Insurance Portability and Accountability Act (HIPPA).

Elliot, Shih, et al. Position paper on the use of telemedicine for allergists. Annals. 119(2017) 512-517.







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Key points

- Patients want convenience
- Telemedicine is here
- There is great potential for our field



