

#### FCC Healthcare Workshop

**LEALTH SYSTEM** Role of the Federal Government





# Telehealth applications

- Videoconferencing for patient care
- Store and forward applications
- Telepharmacy



- m-Health
- Health information exchange
- Emergency preparedness/disease surveillance
- Distance learning





# Partnerships to improve health

- Academic-community hospital linkages
- Departments of Defense, Veterans Affairs
- Rural clinics (FQHCs, Veteran's clinics)
- Free clinics
- Health departments
- Correctional facilities
- School health
- Nursing homes
- Home telehealth
- Workplace
- Medical offices
- Retail clinics





# Enhancing access





#### Benefits of telehealth

#### **Patients**

- Timely access to locally unavailable services
- Improved triage when patient transfer required
- Improved quality of care
- Reduced readmission for same diagnosis
- Improved chronic disease management
- Spared burden and cost of unnecessary travel



#### Benefits of telehealth

#### Health professionals

- Access to consultative services
- Each consultation is inherently educational
- Access to continuing medical education
- Reduces sense of isolation



#### Benefits of telehealth

#### Rural communities

- >85% of patients remain in local community
- Care in the community (lower cost) environment
- Enhanced healthcare and local economic development

#### Society

- Lower cost of care
- Improve outcomes
- "Green" technology



## Innovative → mainstream applications

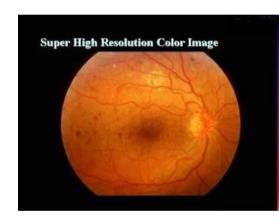
- Infant mortality
  - Arkansas Angels
    - Improve access to prenatal care
    - Reduce neonatal mortality, premature delivery (26% decrease)
  - Virginia Productivity Investment Fund
- Congenital heart disease
- Childhood asthma
- Childhood obesity
- School health and daycare applications
  - Reduced ER visits, parental time away from work



## *Innovative* → mainstream applications

- Tele-ophthalmology
  - Screening for diabetic retinopathy
  - Retinopathy of prematurity
- Tele-dermatology

  Store forward/live interactive
- Tele-mental health
  - Critical shortage of mental health providers
- ATA and specialty society standards





### Innovative → mainstream applications

- Acute stroke
  - Time is brain!
  - TPA administered in < 3hrs</li>
  - Increased use from 4-23% in rural hospitals
  - AHA/ASA consensus statement
- Mobile digital mammography
  - Increase access to screenings
  - Early diagnosis/ lower cost
- Remote access to clinical trials and community based participatory research





## Chronic disease management Remote monitoring and home telehealth

#### Need

- Medicare data: (\$17.4 billion) unplanned hospitalizations
- Hospital readmissions within 30 days 20%, within 90 days - 34%, within 1 year 56%
- MedPAC \$7,200 dollars per readmission deemed preventable
- Remote monitoring/home telehealth can reduce costs
  - Congestive heart failure, Diabetes, Chronic obstructive pulmonary disease
- Veterans Affairs Care coordination/home telehealth
  - 19% reduction in hospital admissions
  - 25% reduction in hospital days



# Role of the federal government Issues/solutions/challenges

- Funding of telehealth systems and projects
  - The federal government has invested billions of dollars in telemedicine networks, technologies and research
- Reimbursement: current status
  - Medicare: non-MSA counties, only covers 21% of Medicare beneficiaries
  - Total expenditures over 5 years = \$2 million/year
  - Store and forward only for Alaska and Hawaii demo projects
  - Medicaid: no federal mandate
  - Other payers: VA, DoD, limited private pay mandate



# Role of the federal government Issues/solutions/challenges

- Alignment of federal policies and definitions
  - Different definitions of rural (Medicare, USDA, FCC)
  - Medicare "conditions of participation standards for hospitals" (CMS)
     require credentialing and privileging at each site
  - Counter to the Joint Commission (JCAHO) telehealth standards,
     2004



# Recommendations to drive adoption

- Eliminate the rural requirement under Medicare
- Fund remote monitoring and home telehealth
- Fund store and forward telehealth in lower 48
- Eliminate the credentialing barrier under Medicare
- Ensure Medicaid coverage across the states
- Ensure that any plan receiving federal dollars covers telehealth



# Role of the federal government Issues/solutions/challenges

- Licensure is state determined (HRSA BHPR)
  - DoD, VA
- Telecommunications venue/costs (FCC, USDA, NTIA)
  - Universal service fund plays critical role
  - Rural healthcare program and pilot still underutilized
  - Regular program: 12 years , \$249 million total, 63% to Alaska
  - Pilot Program: In third year of program, only 1.4% of funds awarded disbursed



# Role of the federal government Issues/solutions/challenges

- Fund research projects related to telehealth (NIH)
- Cost effectiveness and savings (ONC, AHRQ)
- Industry standards (NIST)
  - ATA Practice guidelines
  - Continua Health Alliance vendors pledge interoperability



### Future of telehealth

- Demonstration projects (ARRA)
  - Sustainability of federal investment
- Sound federal policies to facilitate sustainability
- Integration into mainstream medicine



# UNIVERSITY Telemedicine improves access, efficiency, economy, and quality of care.



A coordinated federal strategy is needed