Participants

Moderator

• Scott Woods, Manager BroadbandUSA Technical Assistance, National Telecommunications and Information Administration (NTIA)

Presenters

• Damon A. Darsey, MD, FACEP, Associate Professor of Emergency Medicine & Pediatrics; Medical Director, Mississippi Center for Emergency Services

• Roy Kitchen, M.S., Arkansas e-Link Network Director; Business Administrator, Center for Distance Health; USAC Project Coordinator; UAMS, College of Medicine

• Curtis Lowery, M.D., Maternal-Fetal Medicine; Professor and Chair; ANGELS Medical Director; (Antenatal & Neonatal Guidelines, Education and Learning System); The Center for Distance Health; Executive Director; SARA Professor and Principal Investigator; (Squid Array for Reproductive Assessment)
Helpful Information

Questions
• Please type questions in the Q&A box on the right hand side of the screen. Questions will be taken after the final presenter.

Presentation
• The presentation along with a transcript and an audio recording will be available on the BroadbandUSA website within 7 days of this webinar under Events/past events.
  • https://broadbandusa.ntia.doc.gov/past-event

Technical Assistance
• Guides, products, publications, and other tools are available to assist you with the planning, funding and implementation of your broadband project.
  • https://broadbandusa.ntia.doc.gov

*Please dial-in to hear the webinar: Conference Line: 800-593-7190 Passcode: 984-4951#
Mobile Broadband and Emergency Medicine

Damon A. Darsey, MD, FACEP
Associate Professor of Emergency Medicine & Pediatrics
Medical Director
Mississippi Center for Emergency Services
The Mississippi Experience

- Mobile Tele-Assist System
- Collaborative Relationship with Regional Cellular Carrier
- Extensive telemedicine system
- The changing healthcare environment
- Pre-hospital challenges and opportunities
The Big Challenge

- Population Coverage
- Geographic Coverage
Your plan to meet the challenge?

Make Operational Changes to match coverage

OR

Make Coverage match Operational Changes
The Role of Telemedicine

Supportive Oversight
Direct Clinical Care

Damon A. Darsey, MD, FACEP
Associate Professor of Emergency Medicine & Pediatrics
Medical Director, Mississippi Center for Emergency Services
Telemedicine in Arkansas

Roy Kitchen
University of Arkansas for Medical Sciences Center for Distance Health
Arkansas e-Link Network Director

Curtis Lowery, MD
Chair, OB/GYN-MFM
Founder & Director, ANGELS & Center for Distance Health
University of Arkansas for Medical Sciences
What is Arkansas e-Link?

A dedicated high-speed, HIPPA compliant broadband network with video access to 1000+ endpoints.

The University of Arkansas for Medical Sciences (UAMS) applied for $102 million in ARRA broadband economic recovery funds to expand and integrate two existing networks:

- Arkansas Telehealth Network
- Arkansas Research and Education Optical Network (ARE-ON)
Evolution from FCC Rural Health Care Pilot Program to USAC Health Care Connect Fund (HCF) Consortium Leader

- **2007**
  - FCC Rural Health Care Pilot Program
  - $4.8M Grant Award
  - Connecting 132 Healthcare Sites

- **2010**

- **2013**
  - AR Act 887 passes
  - Allowing Health Care Providers to bill for Telemedicine services

- **2014**
  - Evolution from FCC Rural Health Care Pilot Program to USAC Health Care Connect Fund (HCF) Consortium Leader

- **2015**
  - $102M Grant Award
  - funded by Broadband Technology Opportunities Program (BTOP)
  - Connecting 249 Healthcare Sites & 44 Higher Education Institutions
  - 724 Sites added to RFP for USAC eligibility consideration

- **2016**
  - 2016
  - 724 Sites added to RFP for USAC eligibility consideration
  - Arkansas e-Link became RHCF Consortium Leader

- **2015**
  - BTOP Grant Completion

- **2016**
  - USAC
  - Universal Service Administrative Company
  - Connecting America's Communities
Arkansas’ Connectivity Before & After BTOP

BEFORE (2010)

AFTER (2013)
Health Care Disparity

Where you live should not determine whether you live or die!
ANGELS Telemedicine Consults

FY 2018
2,822
Telemedicine patient visits provided across the state

UAMS CENTER FOR DISTANCE HEALTH
County Medical Center
Nashville Center
Sites (INTERVENTION & ICU CAPABLE)
Dumas
Benton
Washington
Randolph
Boone
Heber Springs
Pope
Sebastian
Faulkner
River Memorial Hospital
White
Mountain View
Sharp
McGehee
Johnson
Greene
Polk
Crossett
Cleburne
Center at Hope
White
Fulton
Independence
Hot Spring
Clarksville
Columbia
Paragould
Village
Camden
Drew
Blytheville
Harris Hospital
Siloam Springs
Mississippi
Ashley
Hot
Arkansas
Fayetteville
Hospital
Pulaski
Medical Center
Salem
Chicot
Union
Washington
Pulaski
Desha
Dallas
Desha
Heber Springs
(ICU CAPABLE)
DeWitt
Jacksonville
Bentonville
Dorado
Benton
Jonesboro
Stuttgart
Mountain Home
Cross
Arkansas
Wynne
Stone
Mississippi
Health Medical Center
Stuttgart
Lawrence
Ouachita
Craighead
Lake Village
Fordyce
Little Rock
Spring County
Cherokee
Walnut Ridge
Helena
Warren
Medical Center
Texarkana, TX
Washington Regional Medical Center
Methodist University
Baptist Health Medical Center
Sparks
Receiving Site

- Receiving Sites (INTERVENTION & ICU CAPABLE)
- Receiving Facilities (ICU CAPABLE)
Trauma Hand and Burn Telemedicine
Additional Statewide Telemedicine Programs

- Cardiology Clinic – Baptist, St. Bernard’s and UAMS
- Chronic Care management - Baptist
- Neurology Clinic
- Emergency Medicine Consults
- DM Retinal Screening
- Geriatrics
- Traumatic Brain Injury
- Baptist eICU
- Pre and post operative visits
- School based health clinics
- Primary care to patients home
- Prisons and Jails
- Direct to Consumer
Telemedicine Reimbursement

- Parity provisions for reimbursement of telemedicine-provided physician services
  - Patients stay local
  - Rural community retains revenue
  - Reimbursement by
    - Private health insurance carriers
    - Medicare
    - Medicaid
Evolution of UAMS Telehealth Programs (2003-2018)

- **2003**
  - New Clinical Services: High-Risk OB & Neonatal Guidelines
  - Tele-Nursery

- **2004**
  - ANGELS 24-hr Call Center Service

- **2005**
  - ANGELS Telemedicine Program

- **2006**
  - FAIM (CME for MDs) - Fetal Anomaly Interdisciplinary Management
  - Federal Communications Commission Rural Health Care Pilot Program

- **2007**
  - (ONE) Team CE for Nurses Obstetrical Neonatal Exchange
  - Fetal Echo Clinic

- **2008**
  - South Central Telehealth Resource Center

- **2009**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare
  - $102M BTOP Grant Award

- **2010**
  - South Central Telehealth Resource Center
  - BTOP Grant Completed Connecting 410+ Healthcare Sites

- **2011**
  - South Central Telehealth Resource Center
  - BTOP Grant Completed Connecting 410+ Healthcare Sites

- **2012**
  - Fetal Echo Clinic
  - BTOP Grant Completed Connecting 410+ Healthcare Sites

- **2013**
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- **2017**
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- **2018**
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- **2019**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2020**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2021**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2022**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2023**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2024**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2025**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2026**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2027**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2028**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2029**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2030**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare

- **2031**
  - TOUCH Neonatal Census Rounds Telemedicine Outreach Utilizing Collaborative Healthcare
Great Change

Increase production
Cut production costs
Improve safety
UAMS—Where Telemedicine Lives!

Curtis Lowery, MD
Chair, OB/GYN-MFM
Founder & Director, ANGELS & Center for Distance Health
University of Arkansas for Medical Sciences

Roy Kitchen
UAMS Center for Distance Health
Arkansas e-Link Network Director

To learn more about the UAMS programs and telehealth, please go to the following link, click on Request Information, fill out the form and submit.

Arkansas eLink

Curtis Lowery, MD
Chair, OB/GYN-MFM
Founder & Director, ANGELS & Center for Distance Health
University of Arkansas for Medical Sciences
Broadband Connectivity is Transforming Healthcare

Questions and Comments

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Review of Recent Surveys and Data
January 16, 2019
2:00 pm EST

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BBUSA Resources
• Implementing a Broadband Network Vision: A Toolkit for Local and Tribal Governments
• Community Broadband Roadmap Toolkit
• Guide to Federal Funding of Broadband Projects
• Using Partnerships to Power Smart Cities