

Telemedicine in Rural Communities

An Innovative Approach to Delivering Healthcare

Learn About School-Based Telemedicine

What's Involved, How to Get Started and the Secrets to Success

August 19, 2014. Start time is 12:00 PM (central time)



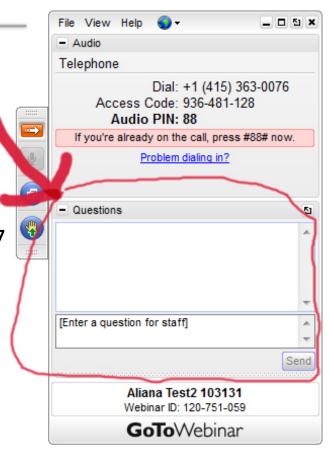






Questions During Webinar

- Type into "Question" box in control panel
- 15 minute Q&A session after presentations
- ❖ Webinar technical support call 800-263-6317













Featured Presenters

Introduction & Overview: What, Why, Who, Benefits





Jenny Kattlove
Director, Strategic Health Initiatives
The Children's Partnership



Amanda Martin
Executive Director
Center for Rural Health Innovation,
My Health-e-Schools









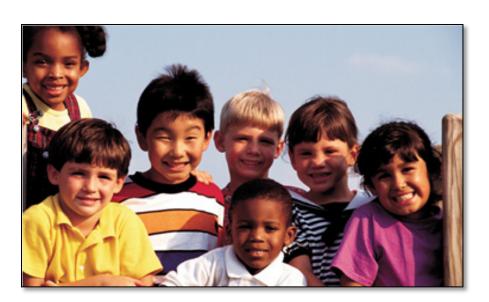


Introduction & Overview

School-Based Telemedicine: An Innovative Approach to Meet the Health Care Needs of Children



Jenny Kattlove
The Children's Partnership













What is Telemedicine?

Telemedicine is the use of technology to provide health care at a distance.



What is Telemedicine?

- Video conferencing
- Store and forward software
- *Remote monitoring



School-Based Telemedicine: Applications and Impact

- Brings care to children who may otherwise go without
- Adds value to existing school-based health services
- ❖ Allows community health systems (e.g., clinics, hospitals) to bring care to where children are – at school
- Helps keep children in school and parents at work
- Parent satisfaction
- Efficient use of resources
- Can be cost effective











School-Based Telemedicine: Applications and Impact

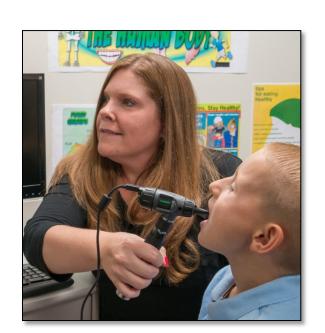
- Increased access to acute care
- Chronic disease management
- Behavioral and mental health care
- Dental care
- Health education for children and families
- Education, training, and support for school staff













Financing and Sustaining School-Based Telemedicine

- Grants for start-up
- Leverage current technology
- Education funds
- Medicaid and CHIP
 - Advocating for policy changes
 - Creating volume
 - Outreach and enrollment
- Medicaid Administrative Assistance













Lessons from Across the Country

- Engaging parents is critical
- Role of school nurse is crucial
- Conduct a needs assessment
- Obtain community buy-in
- Work with local health care providers; promote medical home













Lessons from Across the Country

- Take a multidisciplinary approach
- Schools need resources
- Technology must be reliable
- Invest in evaluation













For More Information

School-Based Telehealth: An Innovative Approach to Meet the Health Care Needs of California's Children

- Schools' roles in meeting the health care needs of children
- The role of telemedicine in meeting the health care needs of children
- Profiles of selected school-based telemedicine programs
- Benefits of school-based telemedicine
- Lessons learned

http://www.childrenspartnership.org/schoolbasedtelehealth













Contact Information



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Lessons Learned from Experience

How to Develop & Implement an Effective & Sustainable School-Based Telemedicine Program





Amanda Martin

MY Health-e-Schools Telemedicine Program











How to Develop & Implement an Effective & Sustainable School-Based Telemedicine Program

- Why?
- Existing Models for Program Structure and Method
- Who Are We? Where Are We?
- Hub & Spoke Model
- Planning Phase, Listening to our Community & Applying for Grants
- Pilot Year... and the Next Two Years
- Billing
- Challenges/Surprises/What to Measure
- Resources











School-Based Health Centers

No matter how good schools are, students won't be able to learn if they're not healthy.

- Secretary of Education Arne Duncan













Examined Existing Models

- University of Rochester
 - Link 33 daycare centers to 10 physician practices
- Akron Children's Hospital
 - Links 2 schools to a children's hospital
- Kansas University Medical Center
 - 10 schools in 7 counties in Kansas











Store and Forward

- Dermatology
- Pathology
- Radiology
- Some acute care













Real-Time Telemedicine

- Consultations
- Direct Patient Interaction
- Medical Education
- Group discussions





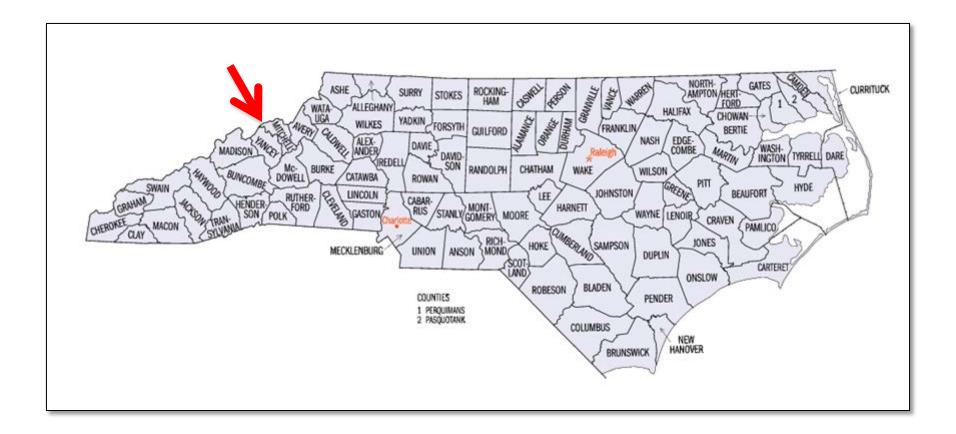








Mitchell and Yancey Counties













Hub and Spoke Model













Spoke Sites

- Clinical Station
 - Camera
 - Monitor
 - Stethoscope
 - Otoscope
 - Exam camera
- Locate in an office or tutoring room















Hub Sites

- Receiving Station
 - Camera
 - Monitor
 - Computer
 - Connections to peripherals













Medical Peripherals

General Exam Camera



Electronic Stethoscope

















Initial Planning

- Building local relationships
- Research
- UC-Davis Telemedicine Course
- American Telemedicine Association
- Launching the plan







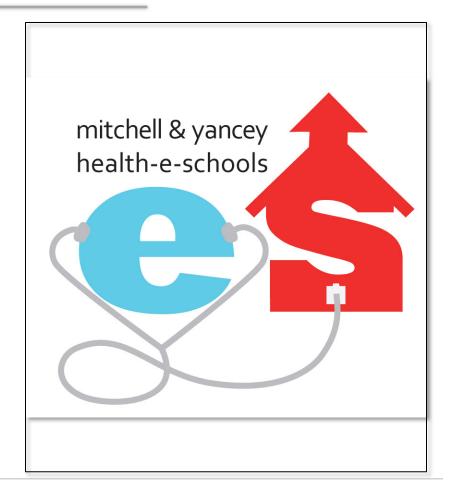






Organizational Development

- 501c3 partnership
- Advisory board
- Hiring a STAFF PERSON
- Developing image
- Social media













Needs Assessment

Listening Sessions

- School Nurses
- Teachers
- Parents
- At-risk students
- Local healthcare providers













Needs Assessment

Family Survey

- Sent home with students
- ❖ 30%+ response rate
- Complemented with a teacher survey













Desired Health Services at School

	Response Percent	Response Count
Acute injury or illness care	85.5%	954
Physical exams, including sports physicals	61.3%	684
Learn about healthy living	53.7%	599
Health Education	44.4%	496
Dermatology	38.8%	433
Counseling for depression, drug abuse, family problems	36.7%	410
Disease management	36.5%	407
Help to quit smoking	16.1%	180
	N=	1116











Would you consider letting your child use school-based telemedicine services?

	Response Percent	Response Count
Yes	32.3%	408
Probably	25.8%	326
I don't know	32.4%	410
Probably not	3.8%	48
No	5.8%	73
	N=	1265











I would consider letting my child use telemedicine if.... (n=376)

	Response Percent	Response Count
Received more information	34%	128
Parents were informed and involved	14.7%	54
The provider was qualified	11.4%	43
There was a true need or an emergency	5.6%	21
Confidence in the care and the providers	5.3%	20
If it was provided	5.1%	19
Affordable and/or free if no insurance	4%	15











Equipment Grants

Year	Source	Match	Amount
2009	Local Foundation	0	\$40,000
2010	App. Regional Comm.	70:30	\$90,000
2011	USDA-RUS	2:1	\$260,000
2011	HRSA SBHC	0	\$54,000
2011	HRSA SBHC	0	\$145,000











Staffing Needs

- Nurse Practitioner
- Program Manager
- Mental Health Provider
- IT Support







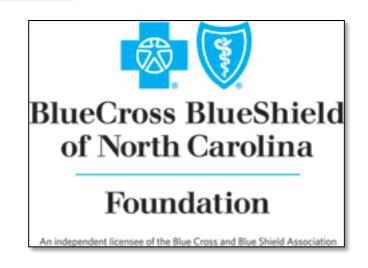






Operational Funds

- Essential to cover start-up costs
- Feasibility study was very beneficial in helping get these grants
- Be honest with your funders if you are not hitting your targets









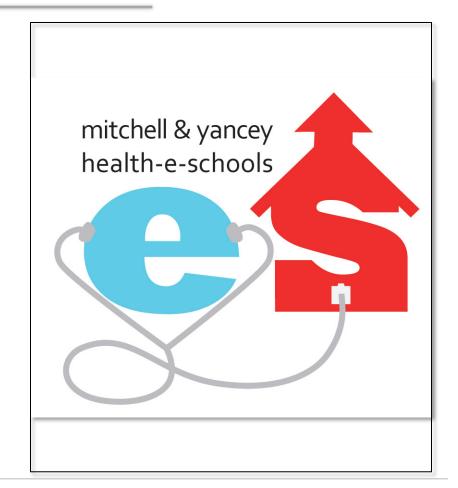






Pilot Network Components

- 700 students with access
- ~225 enrolled
- One elementary and two middle schools













2011-2012 Pilot Network

- Small steps to work out the bugs
- Segment the funding
- Grow based on demands and finances
- Multiple challenges, limited number of patients













Implementation Plan

School Year	Sites	Potential Patients
2011-2012	3	700
2012-2013	10	2,600
2013-2014	14	4,000
2014-2015	21	8,000
2015-2016	27	12,000





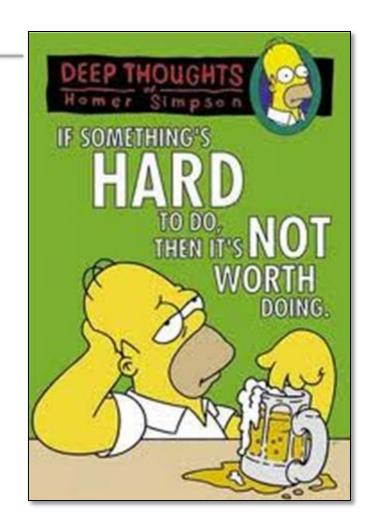






Challenges

- Enrollment
- School nurses
- Legal issues
- HIPPA-FERPA
- Electronic Health Record
- Staffing













Surprises

- Evaluation is useless without a way to make the treatment happen
- Eavesdropping pays off
- Flexibility matters
- Growth curve? What growth curve?











Outcome Measures

- Attendance
- Coordination of Care
- Satisfaction Measures
- Cost-savings to Medicaid
- Health outcomes
- Annual preventive care
- Financial viability









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Resources



















Contact Information





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Choosing Telemedicine Equipment & Technology

Consider:

- Medical specialties servicing
- Environment of equipment
- Training required of users
- Integration with existing IT infrastructure











Types of Telemedicine Equipment & Technology





- Clinical Telemedicine Systems
- Medical Devices
- Encounter Management Software













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Q&A Session

Type your questions for the presenters in the control panel box

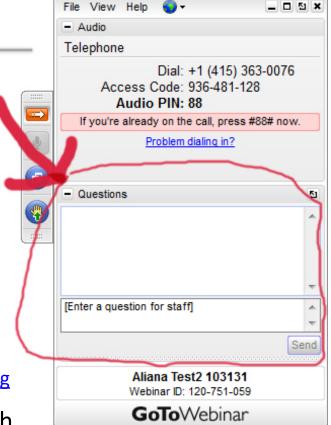


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Thank You for Attending

- Archived presentation will be available in next few days.
- List of telemedicine resource centers will be provided







