Using Telehealth to Improve Outcomes For Rural Children w/ Early Childhood Caries

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Learning Outcomes

- Identify barriers faced by rural children in accessing oral health care
- Discuss innovative strategies that overcome barriers faced by low income families in accessing preventive oral health services, evaluation by pediatric dentists, and treatment for early childhood caries
- Demonstrate the use of videoconferencing and intraoral cameras as a means of dental telepresence for improving access to evaluation and treatment of oral health disorders in children
- Review the role of the patient centered medical/dental home and its team approach using care managers, community health workers, medical and dental providers within the primary care setting
Disclosure

We have no financial relationship with a commercial entity producing health-care related products and/or services relative to the content we are presenting.

Who We Are...

- Community/Migrant Health Center Program
- Migrant Voucher Program in 42 Counties
- Clinical Sites: 9 Health Center Sites
- Administrative Office: Penn Yan, NY
Where We Are…

What Special Populations We Serve
Challenges in Providing Health Care to Rural Poor

- Transportation barriers
- Language differences
- Cultural beliefs
- Cost of health care services
- Uninsured/Underinsured
- Lack of trust in health care system
- Poverty
- Migrant lifestyle

Prevalence of ECC In Children of Farmworkers

**Farmworker children experience more oral health problems than the general U.S. population and are almost 50% more likely to have decayed tooth surfaces**

-National Center for Farmworker Health (2009)
Mobile Dental Program

- Migrant Headstart Sites
- School Based Sites

FLCH Mobile Dentistry Program
Mobile Dental Services

**Dental hygiene, exams, flouride rx, simple restoration on site at migrant day care centers has decreased rate from 60% to 22%**

BUT………..

***For those requiring more extensive treatment, 15% COMPLETION RATE***

An Innovative Approach…..
Telehealth Program Development Funding Sources

- USDA – Distance Learning and Telemedicine
- HRSA – Rural Network Development
- Federal Communications Commission – Rural Healthcare Broadband Project
- NYS DOH

FINGER LAKES COMMUNITY HEALTH – HIT INFRASTRUCTURE DEVELOPMENT

TELEDENTAL COLLABORATION

- Finger Lakes Community Health
- Eastman Institute for Oral Health
Uses for Teledentistry

- Screening
- Exams
- Urgent Care
- Specialty Care Consults
- Pre- and Post-Operative Care
- Follow Up
- Distance learning

What the Literature Says:

- Reliable
- Improved Access
- Feasible
- Cost Effective
- Improved Outcomes
- High Satisfaction
## Types of Teledentistry

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<th>STORE AND FORWARD</th>
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## Live Videoconferencing
INTRA-ORAL CAMERA

Teledentistry Program Development

- Contracts
- Credentialing
- Clinical Workflow
- Pediatric Dental History & Exam
- Documentation
- Billing
- IT Network Engineering
Telepresenting

Pediatric Dentistry Consultation

- Compile medical history
- Assess child behavior and temperament
- Observe child’s response to surroundings and non-invasive oral procedures
- Assess parental style
- Discuss findings with family
- Plan future treatment with behavior guidance
Behavior Guidance Strategies

- **Non-Pharmacologic Strategies**
  (Tell show do, positive reinforcement, modeling, imagery, desensitization, voice control, parental presence)

- **Nitrous oxide / Oxygen inhalation**

- **Office-based Sedation**

- **General Anesthesia**
  - Hospital
  - Surgery center

TELEDENTISTRY: Care Coordination

- Registry of Patients

- Monthly Case Conference via Videoconference

- Communication with ABCDs
Bilingual/Bicultural Community Health Workers

Outreach
Insurance Access
Transportation
Language/Cultural Interpretation
Pediatric Dentistry Access
Education
Relationships = Trust

Leveraging HIT

Distance Learning
Leveraging HIT

Electronic Health Records

And here is what it looks like….

- [https://docs.google.com/a/flchealth.org/open?id=0B33C6-LpeJ7mRTV5OFJpQ0VkNk0](https://docs.google.com/a/flchealth.org/open?id=0B33C6-LpeJ7mRTV5OFJpQ0VkNk0)

“Rethinking Rural Health- The Teledentistry Impact”

Video Clip

*Need To Know* TV program on PBS

June 2015
TeleDentistry Outcomes

4/10 – 7/15
N = 430 consults

- Triaged Correctly = 80%
- Decreased travel costs
- Decrease in lost work time
- Improved access to care
- Decreased time to treatment
- Decrease no show rates
- Increased interaction between dental providers

93% COMPLETION RATE

52% require treatment under general anesthesia

And Now a Word From Our Director.....
References


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