

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

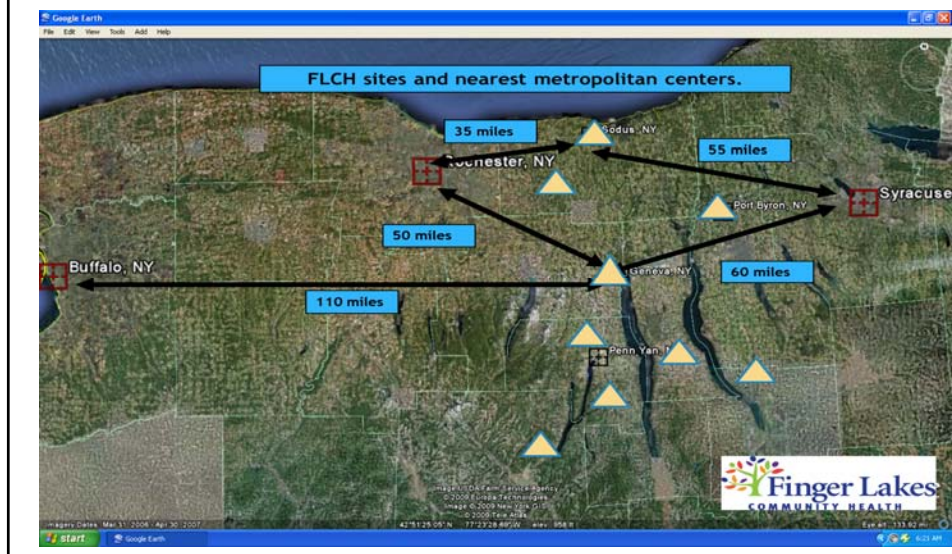


Who We Are...

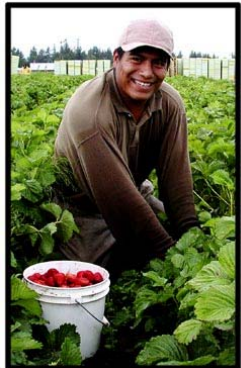
- Community/Migrant Health Center Program
- Migrant Voucher Program in 42 Counties
- Clinical Sites: 9 Health Center Sites
- Administrative Office: Penn Yan, NY



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

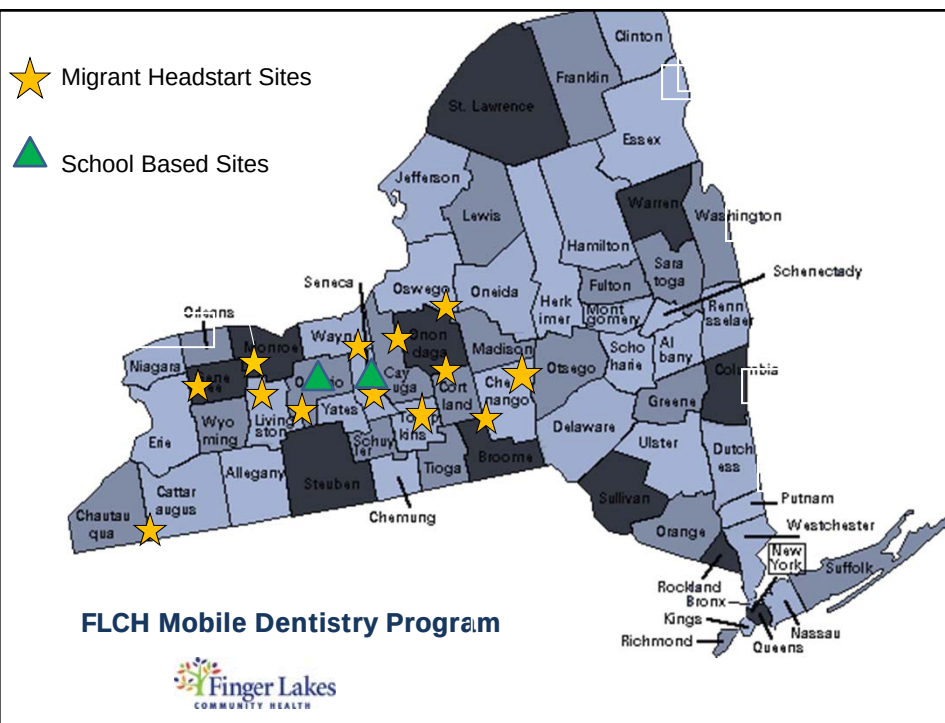


****Farmworker children experience more oral health problems than the general U.S. population and are almost 50% more likely to have decayed tooth surfaces**

-National Center for Farmworker Health (2009)



Mobile Dental Program



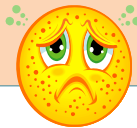
Mobile Dental Services

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



BUT.....

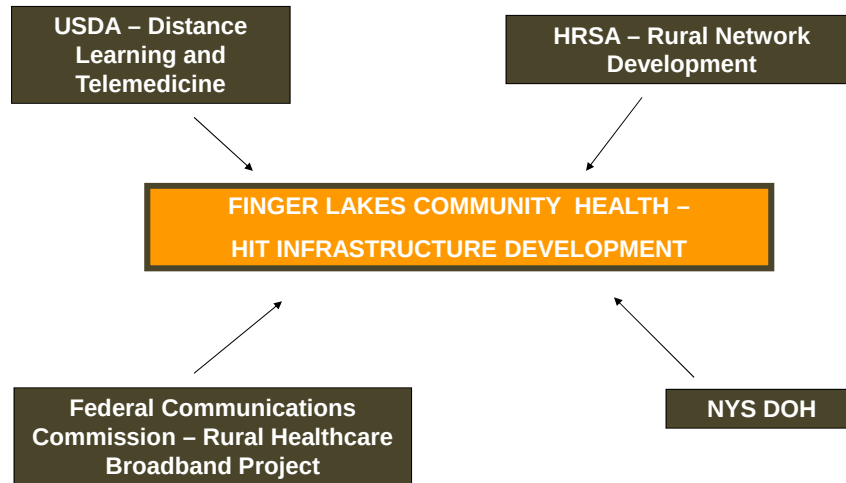
*****For those requiring more extensive treatment,
15% COMPLETION RATE**



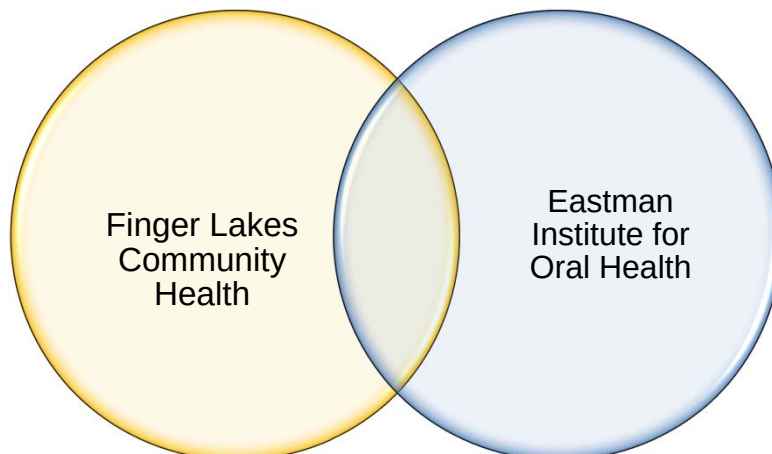
An Innovative Approach.....



Telehealth Program Development Funding Sources



TELEDENTAL COLLABORATION



Uses for Teledentistry

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



Teledentistry

What the Literature Says:

Reliable
Improved Access
Feasible
Cost Effective
Improved Outcomes
High Satisfaction



Types of Teledentistry

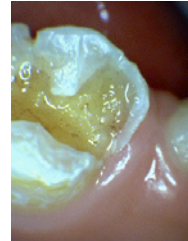
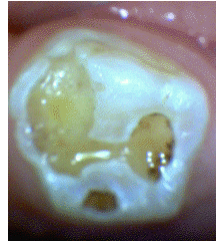
	STORE AND FORWARD		VIDEOCONFERENCE	
	Pro	Con	Pro	Con
Cost	*			*
Scheduling	*			*
Image quality	*		*	
Interactions with patient and family		*	*	
On demand request for more information		*	*	



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>

“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

- Daniel, SJ, Wu, L. & S.Kumar (2013). Teledentistry: A systematic review of clinical outcomes, utilization, and costs. *Journal of Dental Hygiene*, 87 (6): 345-52.
- Daniel, SJ and S Kumar (2014). Teledentistry: a key component in access to care. *Journal of Evidence-based dental Practice*, June 14, 2014.
- Kopycka-Kedzierawski, D and RJ Billings (2013). Comparative effectiveness study to assess two examination modalities used to detect dental caries in preschool urban children. *Telemedicine Journal E-Health*, 19 (11): 834-40.
- Marino, R. and A. Ghanim (2013). Teledentistry: A systematic review of the literature. *Journal of Telemedicine and Telecare*. 12 (4): 179-83.
- McLaren, SW and D. Kopycka-Kedzierawski (2015). Compliance with dental treatment recommendations by rural pediatric patients after a live-video teledentistry consultation: a preliminary report. *Journal of Telemedicine and Telecare* June 26, 2015.



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