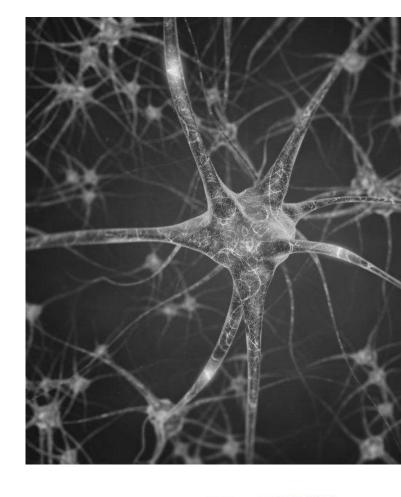


THE RISE OF PARKINSON DISEASE



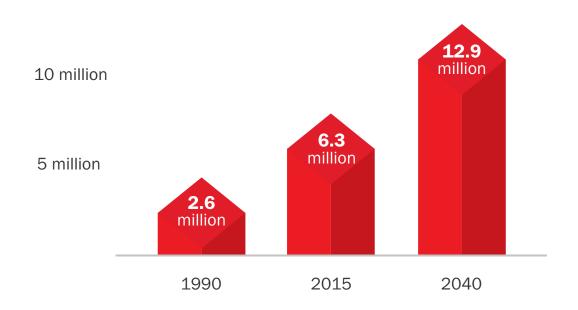
Center for health + technology
University of Rochester Medical Center





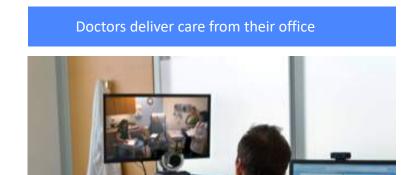
The fastest growing neurological disease in the world

ESTIMATED AND PROJECTED NUMBER OF INDIVIDUALS WITH PARKINSON DISEASE, 1990 - 2040



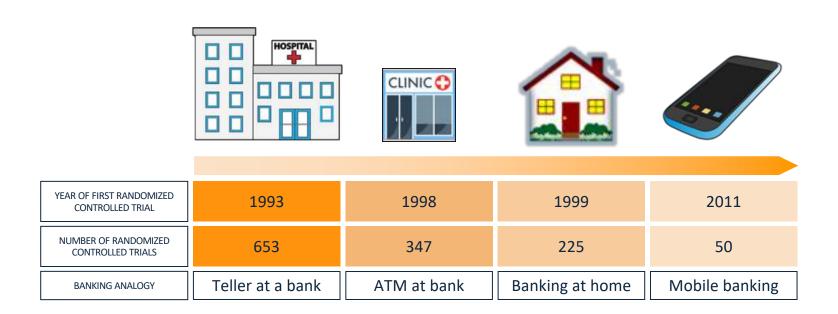
Source: Dorsey ER, Bloem BR, The Parkinson Pandemic: a call to action. JAMA Neurology 2017

Telehealth enables us to reach the unreachable



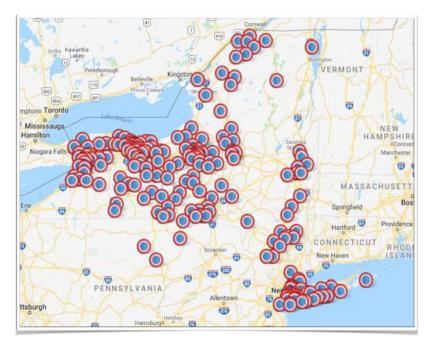


Technology will help us to bring care to the patient



Source: Teleneurology and mobile technologies: the future of neurological care. *Nature Reviews Neurology*. 2018;14:285-97.

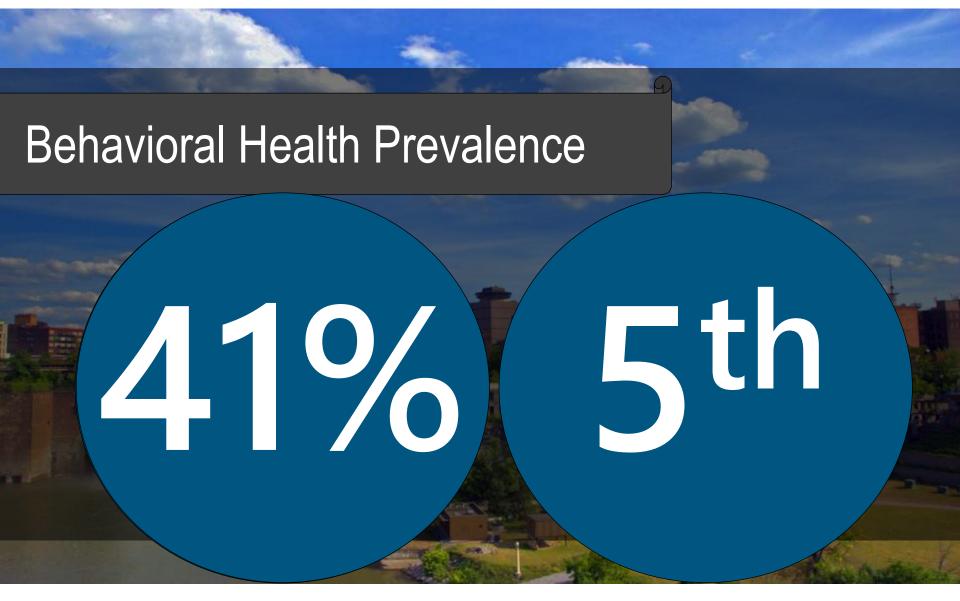
We now cover New Yorkers with Parkinson disease

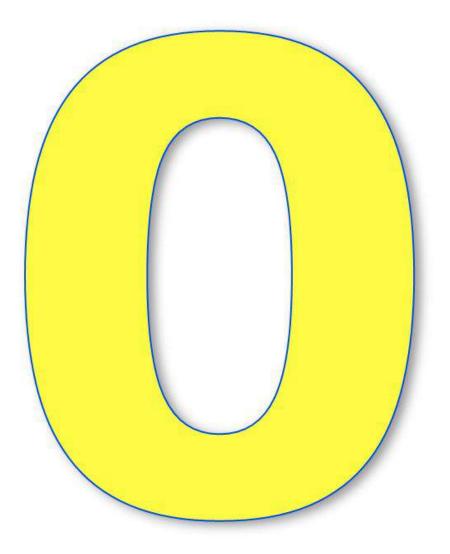




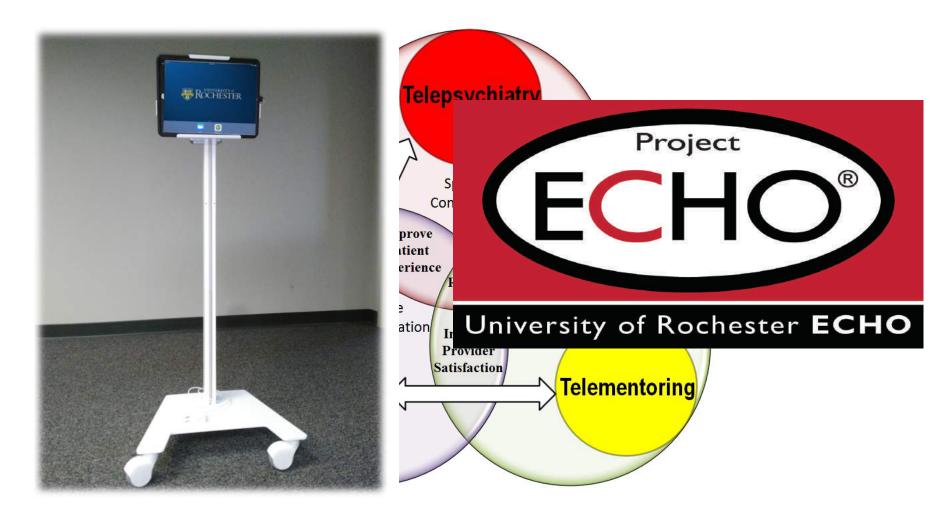
UR Medicine Telebehavioral Health

Michael Hasselberg, PhD, RN, PMHNP-BC
Assistant Professor of Psychiatry, Clinical Nursing, and Health Lab
Robert Wood Johnson Foundation Clinical Scholar Fellow
Director of Telepsychiatry

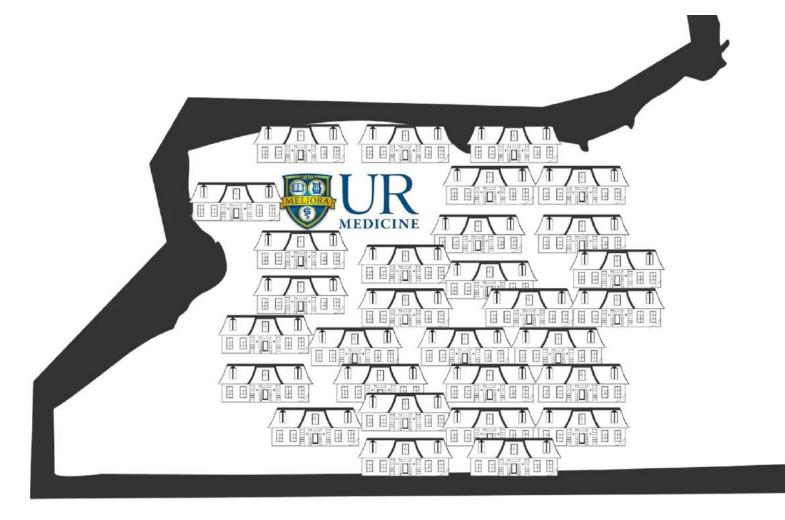


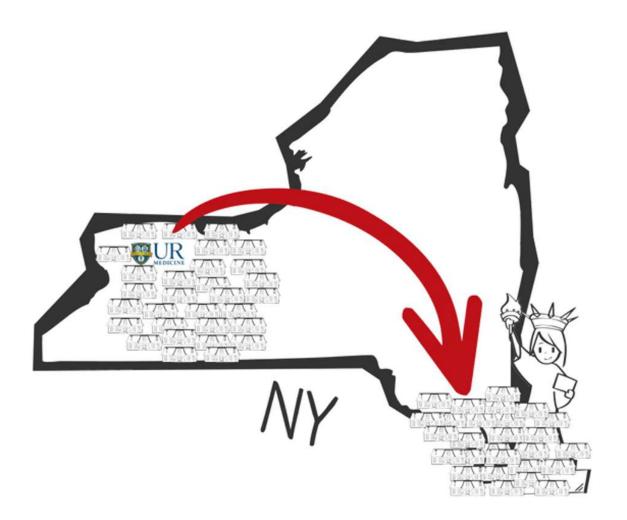


UR's Behavioral Telehealth Model











Recognition of Our Work



















Office of **Mental Health**





Telemedicine: healthcare from the comfort of home and the doctor's office

Teledentistry At The University Of

Rochester's, Eastman Institute
For Oral Health
Establishing a dental home for underserved young children

Dorota T. Kopycka-Kedzierawski DDS, MPH

March 30th, 2019

Dental caries burden in U.S. pediatric population

Dental caries is the most prevalent infectious disease among U.S. children

Poor and minority-group children are disproportionately affected by dental caries AND have limited access to oral health care.



Early Childhood Caries (ECC)



- Most common chronic childhood disease, 1.8 billion new cases per year globally.
- Disproportionately afflicts up to 73% of underprivileged preschool children in both developing and industrialized countries.
- "Rapid", "Aggressive", "Painful", "Recurrent"

What is the significance of Early Childhood Caries?



American Academy of Pediatric Dentistry Council on Clinical A. Policy on early childhood caries (ECC): unique challenges and treatment options. Pediatric dentistry. 2005;27(7 Suppl):34-5. PubMed PMID: 16541879.

Lewis, et al. Journal of American Dental Association. 2015 (National Hospital Ambulatory Medical care service survey)

Courtesy of Dr. Jin Xiao

Treatment of ECC or S-ECC

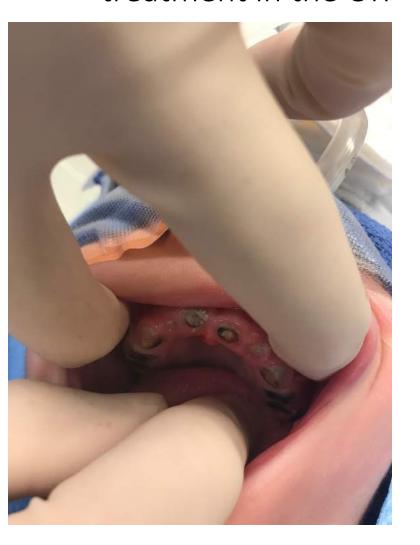
Total oral rehabilitation under general anesthesia



Devon Koester, age 2 ½, getting anesthesia at the Center for Pediatric Dentistry in Seattle for an operation that included a root canal. (The New York Times. March 6, 2012)

- Extremely expensive disease to treat
- Average cost: ~ \$7000/case (data from 2009-2011)
- EIOH OR Cases: ~1000 cases last year (2018)
- In the US, more than 1.5 billion dollars per year is spent on treatment.

Severe Early Childhood Caries (S-ECC)treatment in the OR





Courtesy of Dr. Sean McLaren

A cycle of S-ECC

S-ECC onset (peak 3 years of

Oral rehabilitation (OR)

"Silver smile"







Increased caries risk and caries experience in adult dentition

Graves CE, et al. 2004; Berkowitz RJ, et al. 2011



(~40% relapse 6 months post OR)

Asynchronous model

2004-Store and forward modality as a Comparative Effectiveness Study: University of Rochester Medical Center Dept. of Pediatrics



Assessed teledentistry for use in large scale pediatric oral health surveys, compared to traditional oral visual/tactile examinations

~500 urban preschool children examined

ria teledentistry utilized dental care significantly more than children examined traditional way.

Intraoral camera (Doctor Camscope) screening





Digital images of anterior teeth







Digital images of upper posterior teeth







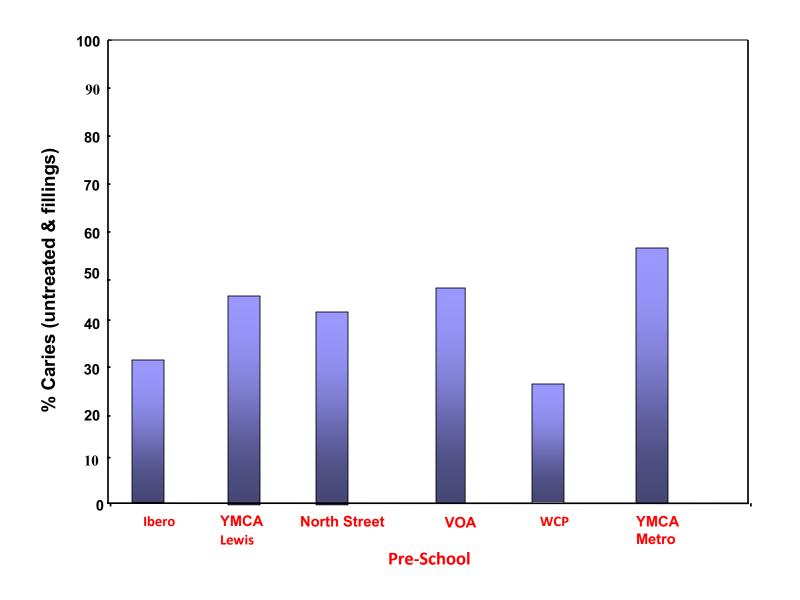
Digital images of lower posterior teeth



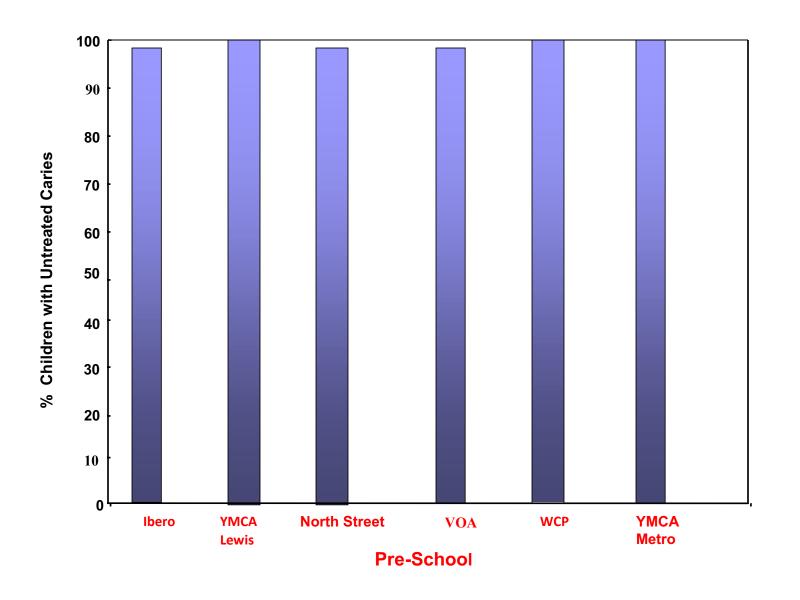




Prevalence (%) of Dental Caries in pre-school inner-city children



Prevalence (%) of Untreated Dental Caries in pre-school innercity children



Synchronous Model 2010-Synchronous modality; collaboration with

2010-Synchfonous modality; collaboration with Finger Lakes Community Health, a Federally Qualified Health Center (serves rural children)

~900 pediatric patients screened via teledentistry ~450 children received treatment in Operating Room

Compliance Improved 78%

~93% compliance rate for OR treatment completed

~15% compliance rate before teledentistry

Live at EIOH



Live at EIOH and FLCH

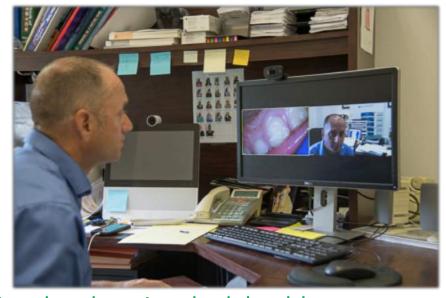


Impact

Our models support the expanded role of teledentistry in

- reducing barriers to oral health care delivery
- enhancing and improving oral health outcomes
- reducing costs
- dental home for underserved children

Next Steps



Teledentistry integration with local, regional and national telehealth programs to establish a balanced framework for teledentistry services within the overarching health care system.

Teledentistry Conference

First Ever National Teledentistry Conference

June 7-8, 2019

Rochester, NY

Hosted by





Thank you