

The National Telehealth Webinar Series

Presented by
The National Network of
Telehealth Resource Centers



The Virtual Dental Home: Implications for Policy & Strategy Paul Glassman, DDS, MA MBA

Professor of Dental Practice, Director of Community Oral Health, University of the Pacific and

Mario Gutierrez, MPH

Executive Director, Center for Connected Health Policy

Thursday, August 15, 2013

(9:00AM HST, 10:00AM AKST, 11:00AM PST, 12:00PM MST, 1:00PM CST, 2:00PM EST)



Mario Gutierrez, MPH
Executive Director
Center for Connected Health Policy

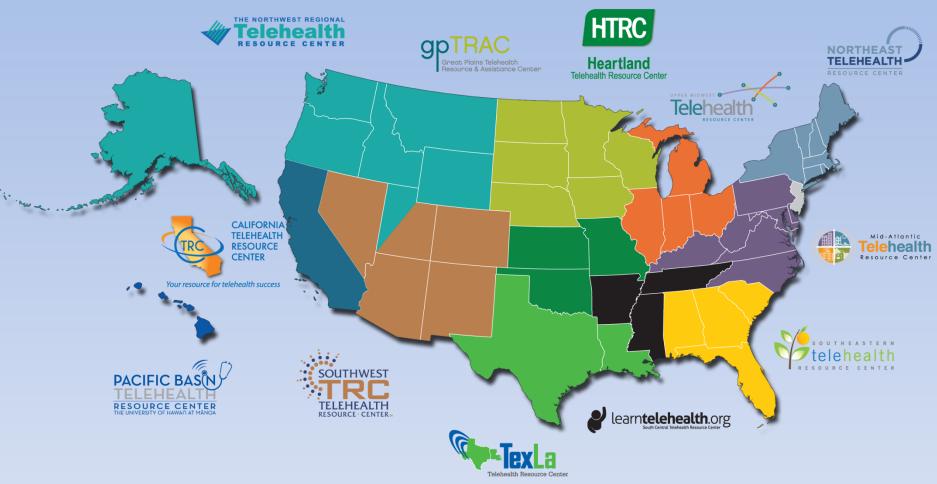
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Always consult with legal counsel.

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TelehealthResourceCenters.org









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PBTRC	TexLa	SETRC

12 Regional Resource Centers



National Telehealth Policy Resource Center www.telehealthpolicy.us

- We are an independent, non-profit focused on identifying and overcoming policy barriers to the use of telehealth, and developing the base of evidence of its benefits to the nation's health care systems.
- We provide technical advice on policy, regulatory and legal issues related to telehealth on a state and national level, and publish reports, policy briefs, studies and papers.







The Virtual Dental Home: Overview and Results

Paul Glassman DDS, MA, MBA
Professor and Director of Community Oral Health
University of the Pacific School of Dentistry
San Francisco, CA



The Virtual Dental Home Update

- Background: Health Reform, Accountability
- Caries Management
- The Health Workforce Pilot Project #172
- The Virtual Dental Home Progress Report
- Economic Analysis: Cost of Neglect of Dental Disease and Costs of the Virtual Dental Home
- AB1174, why it was proposed and what it would do

The US Health Care System is Undergoing Profound Change

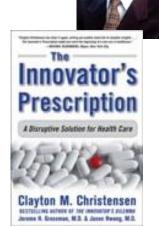


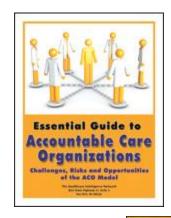


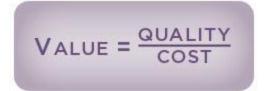
Drivers of the Quality Movement in the U.S. Health Care System

- 1. the skyrocketing cost of health care unrelated to improvement in health outcomes,
- increasing understanding of the harm and unwarranted variability our fragmented health care system produces,
- 3. evidence of the profound health disparities that still exist in the population in spite of scientific advances in care, and
- 4. increasing awareness of these problems in the age of consumer empowerment.

The Era of Accountability







Michael E. Porter

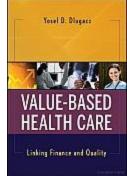
Elizabeth Olmsted Teisberg

Redefining

Creating Value-Based Competition

on Results

ARTARE ESSIREST SCHOOL PRES







Better Care for Individuals, Better Health for Populations, and Lower Per Capita Costs

The Triple Aim





- improving the experience of care
- improving the health of populations
- reducing per capita costs of health care

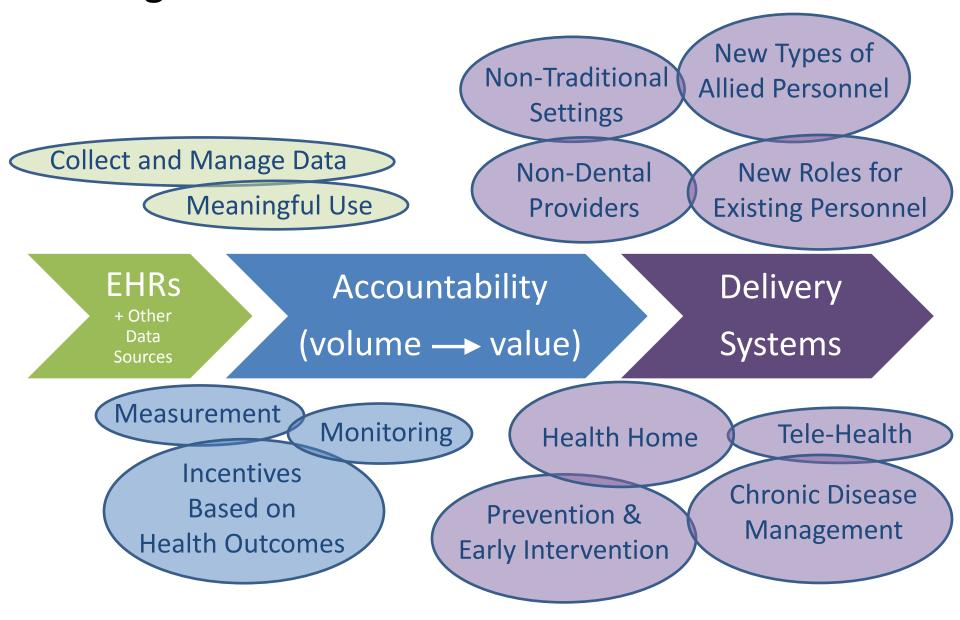
The Era of Accountability

The Urban Institute

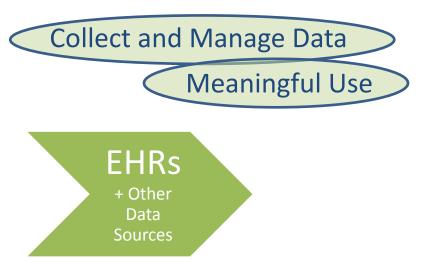
Moving Payment from Volume to Value: What Role for Performance Measurement?

Timely Analysis of Immediate Health Policy Issues
December 2010

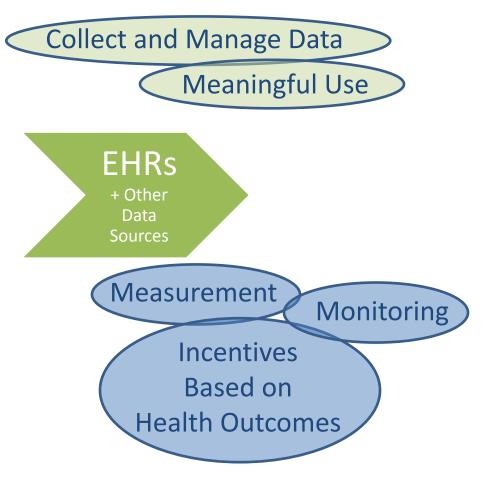
Robert A. Berenson



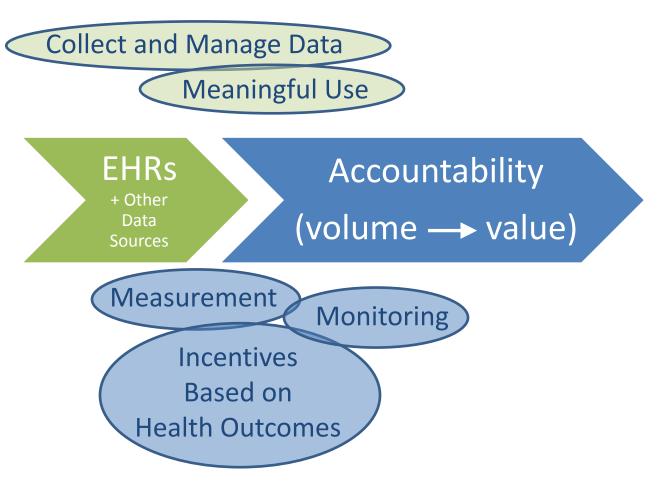
^{**}Value = health outcomes achieved per dollar spent over the lifecycle of a condition



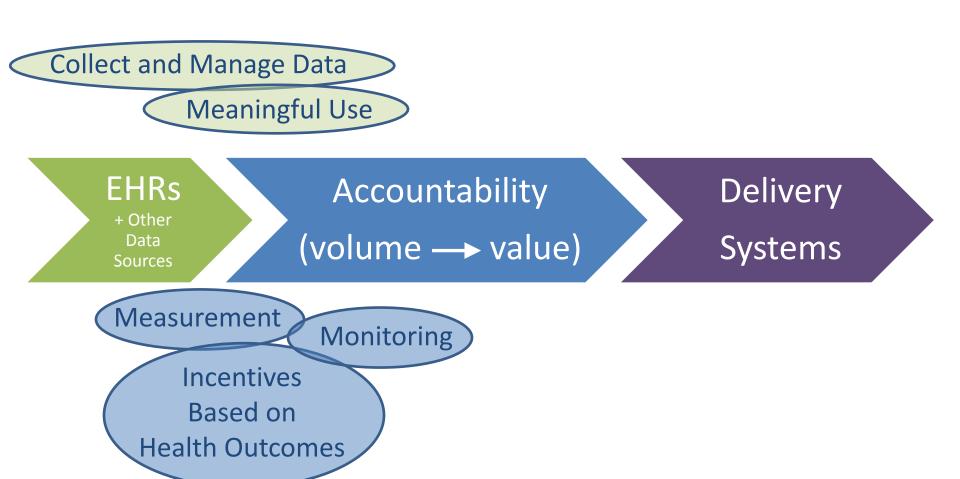
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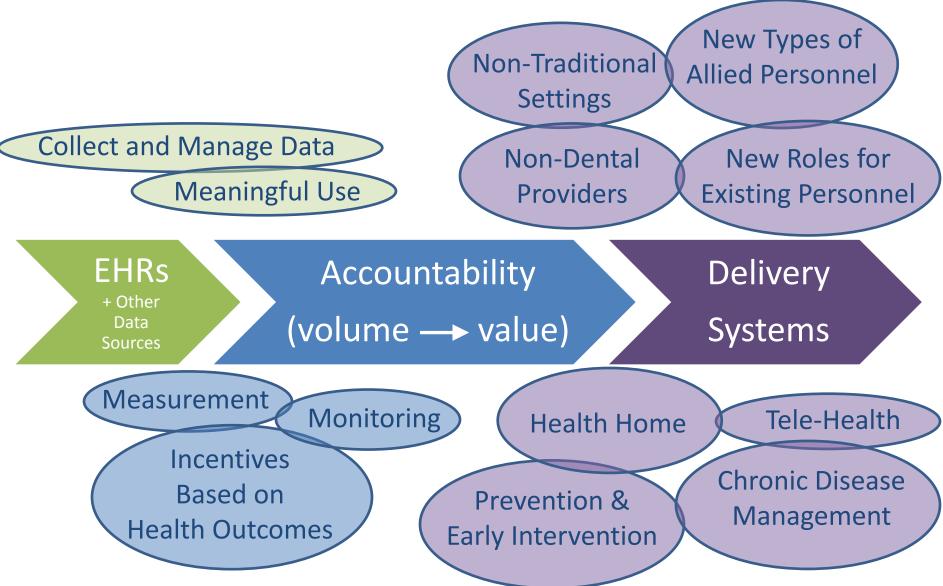
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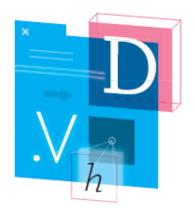
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Prevention and Early Intervention Strategies

- Partial caries removal
- Interim Therapeutic Restorations



Community-Based Prevention and Early Intervention Strategies

ALAN W. BUDENZ, MS, DDS, MBA, AND PAUL SUBAR, DDS, EDD

Creation of a community-based oral health delivery system that could deliver preventive and simple therapeutic oral health services in community settings where these populations live or receive social and/or general health services has been one of the proposed strategies for improving access to oral health care. Two of the newer techniques are caries management by risk assessment and interim therapeutic restoration.

Incomplete Caries Removal

CLINICAL REVIEW

F. Schwendicke*, C.E. Dörfer, and S. Paris

Department for Conservative Dentistry and Periodontology, Christian-Albrechts-University, Arnold-Heller-Str. 3, 24105 Kiel, Germany; *corresponding author, schwendicke@konspar.uni-kiel.de

J Dent Res 92(4):306-314, 2013

Incomplete Caries Removal: A Systematic Review and Meta-analysis

- Increasing numbers of clinical trials have demonstrated the benefits of incomplete caries removal, in particular in the treatment of deep caries.
- Teeth treated with incomplete caries removal showed risk reduction for both pulpal exposure and pulpal symptoms.

Atraumatic Restorative Treatment

Two systematic reviews on longevity of ART restorations vs amalgam and pain and fear experienced during restoration.^{1,2}

- Longevity: In primary teeth there was no significant difference in longevity over 12 and 24 months. In permanent dentition longevity of ART restorations is equal to or greater than that of equivalent amalgam restorations for up to 6.3 years.
- Pain and fear: ART promotes less discomfort for patients, contributing to a reduction of anxiety and fear during the dental treatment. Results also indicated that ART minimizes pain reported by patients

^{1.} Mickenautsch S, Yengopal V, Banerjee A. Atraumatic restorative treatment versus amalgam restoration longevity: a systematic review. Clin Oral Investig. 2010 Jun;14(3):233-40. Epub 2009 Aug 18.

^{2.} Carvalho TS, et. al. The atraumatic restorative treatment approach: An "atraumatic" alternative. Med Oral Patol Oral Cir Bucal. 2009 Dec 1;14 (12):e668-73.

Interim Therapeutic Restoration (ITR)

REFERENCE MANUAL V 30 / NO 7 08 / 09

Policy on Interim Therapeutic Restorations (ITR)

Originating Council

Council on Clinical Affairs

Review Council

Council on Clinical Affairs

Adopted

2001

Revised

2004, 2008

AAPD Policy on Interim Therapeutic Restorations (ITR)

The CA Health Workforce Pilot Project



GOV Statewide Health Planning and Development OS pd



Healthcare Workforce Development Division

HEALTH WORKFORCE PILOT PROJECTS PROGRAM (HWPP)

HWPP program allows organizations to test, demonstrate, and evaluate new or expanded roles for healthcare professionals, or new healthcare delivery alternatives before changes in licensing laws are made by the Legislature. Various organizations use HWPPs to study the potential expansion of a profession's scope of practice to:

- Facilitate better access to healthcare
- Expand and encourage workforce development
- Demonstrate, test and evaluate new or expanded roles for healthcare professionals or new healthcare delivery alternatives
- Help inform the Legislature when considering changes to existing legislation in the Business and Professions code

The CA Health Workforce Pilot Project

HEALTH WORKFORCE PILOT PROJECTS

ABSTRACT

APPLICATION: #172

TRAINING CURRENT ALLIED DENTAL PERSONNEL FOR NEW DUTIES IN COMMUNITY SETTINGS

APPLICANT/SPONSOR:

Pacific Center for Special Care at the University of the Pacific Arthur A. Dugoni School of Dentistry 2155 Webster Street San Francisco, California 94115

SPONSOR TYPE:

Non-profit Education Institution

PURPOSE:

To teach new skills to existing categories of health care personnel and to improve the oral health of underserved populations by expanding duties of dental assistants, and dental hygienists working in community settings

PROJECT DIRECTOR:

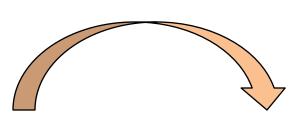
Dr. Paul Glassman Director of Community Oral Health

The CA Health Workforce Pilot Project

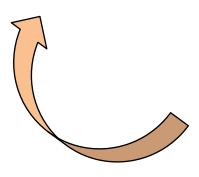
- RDAs, RDHs, and RDHAPs will make the decision about which radiographs to take, if any, to facilitate an initial oral evaluation by a dentist.
- RDAs, RDHs, and RDHAPs will place "Interim Therapeutic Restorations" (ITR)

The Virtual Dental Home

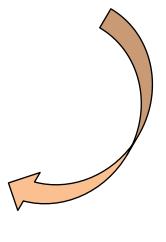


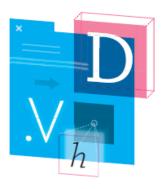










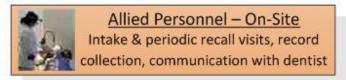


The Virtual Dental Home: Bringing Oral Health to Vulnerable and Underserved Populations

PAUL GLASSMAN, DDS, MA, MBA; MAUREEN HARRINGTON, MPH; MAYSA NAMAKIAN, MPH; AND PAUL SUBAR, DDS, EDD

ABSTRACT Large and increasing oral health disparities in the U.S. population led the Institute of Medicine to call for expanded research and demonstration of delivery systems that test new methods and technologies. These new methods include delivering oral health services in nontraditional settings, using nondental professionals, expanded roles for existing dental professionals and new types of dental professionals, and incorporating telehealth technologies. The virtual dental home is a system that demonstrates the characteristics called for by the IOM.

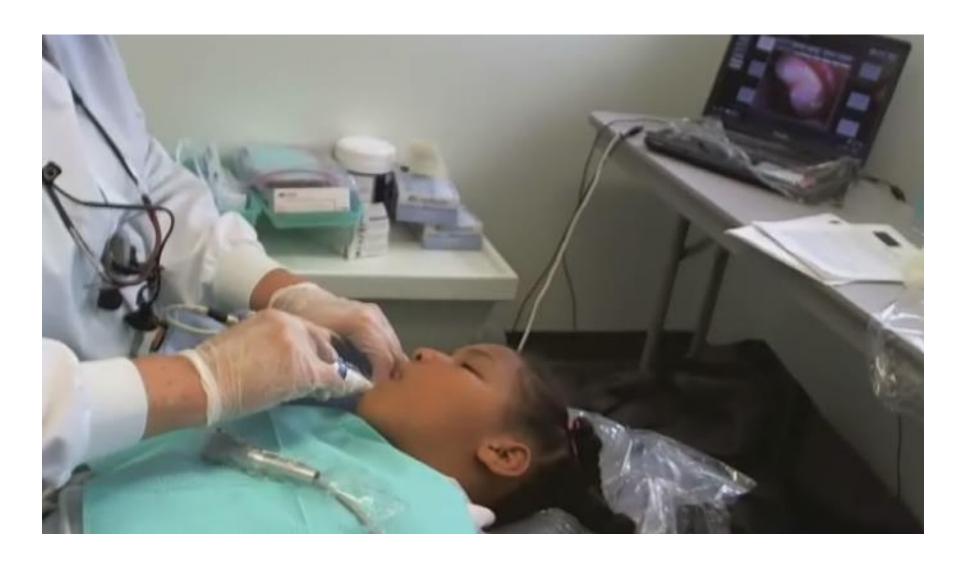
The Virtual Dental Home Concept Model

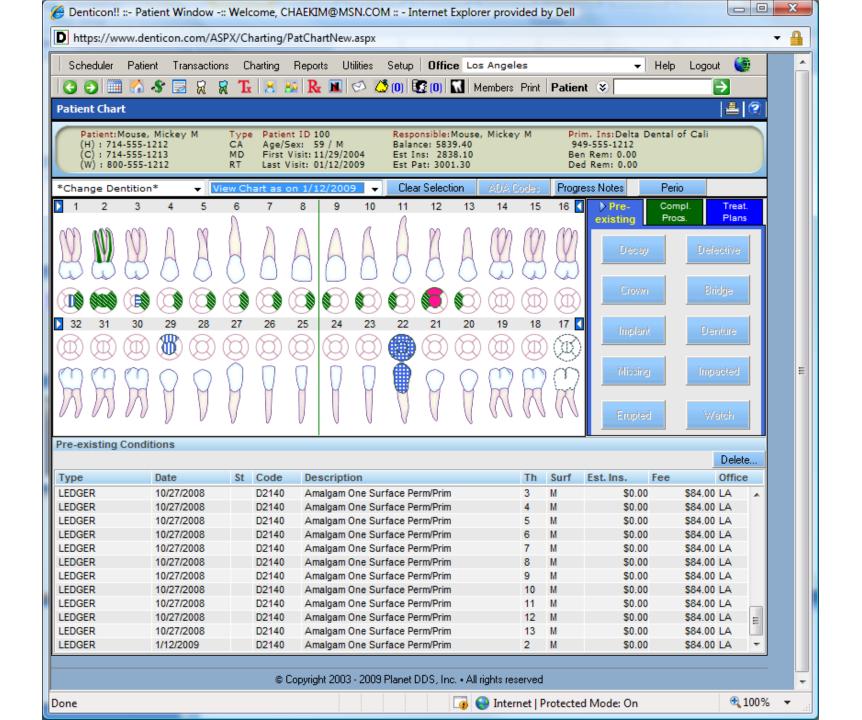


EHR: Radiographs

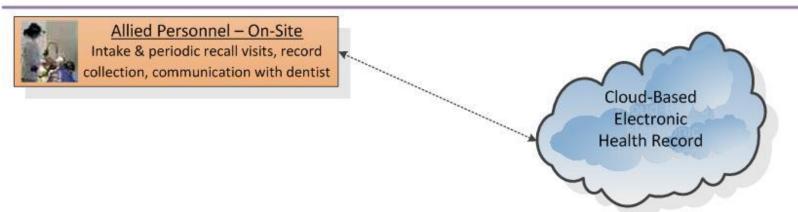


EHR: Photographs

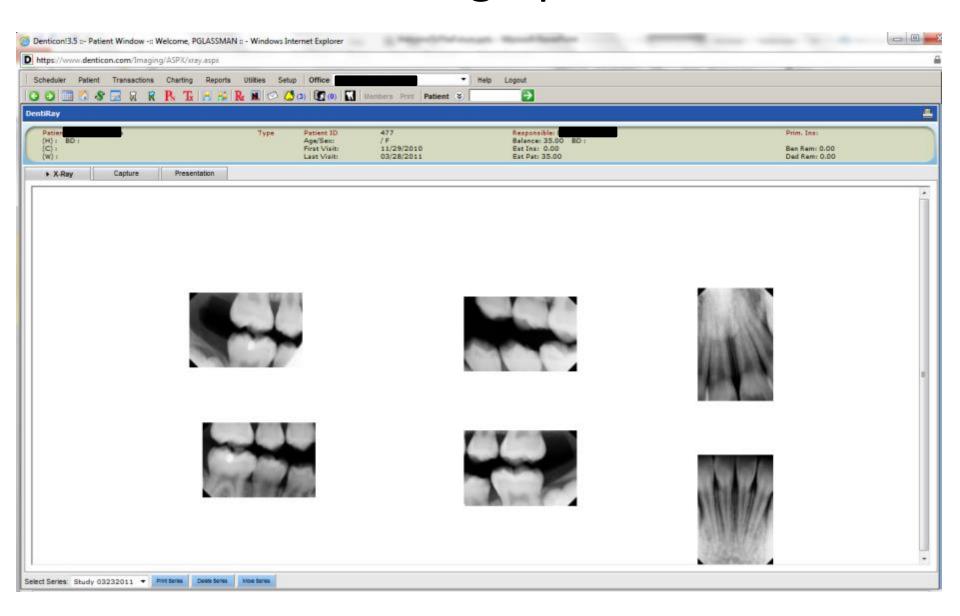




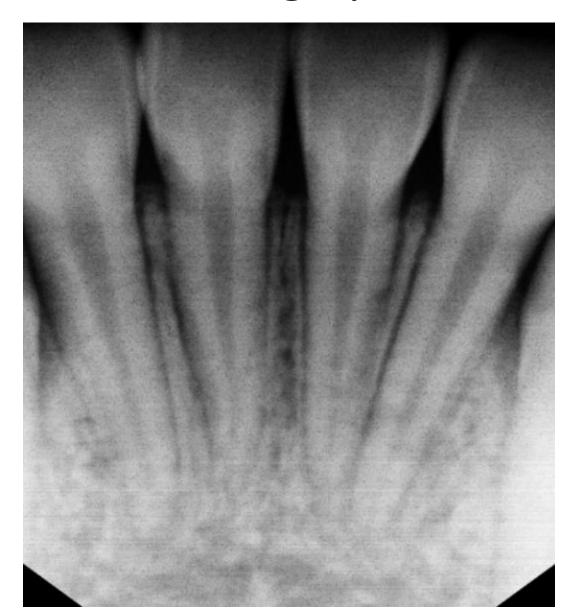
The Virtual Dental Home Concept Model



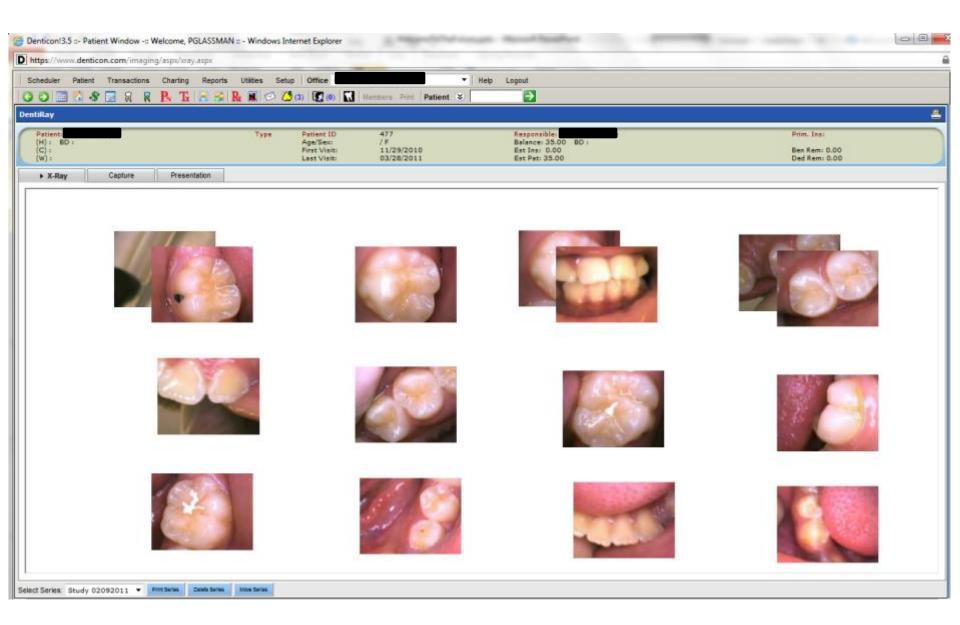
Radiographs



Radiographs



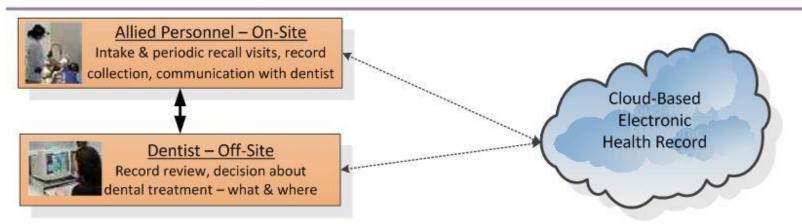
Photographs



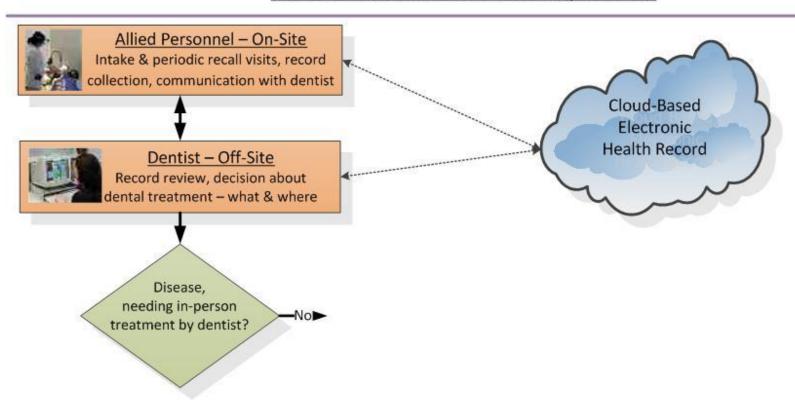
Photographs



The Virtual Dental Home Concept Model



The Virtual Dental Home Concept Model



Study on Telehealth vs In-Person Decision Making





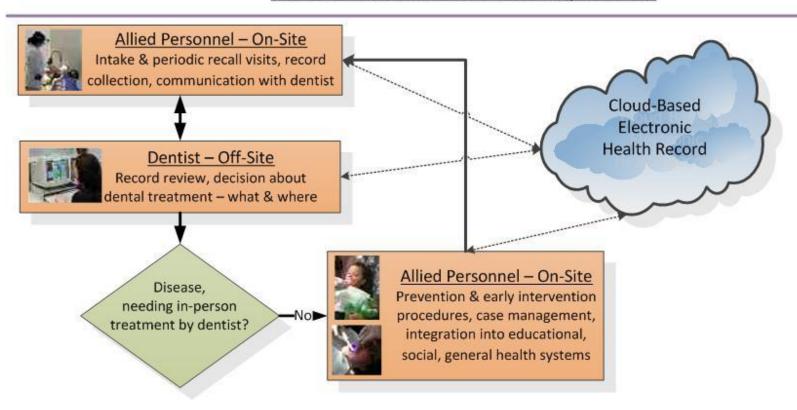


In-Person Versus "Virtual" Dental Examination: Congruence Between Decision-Making Modalities

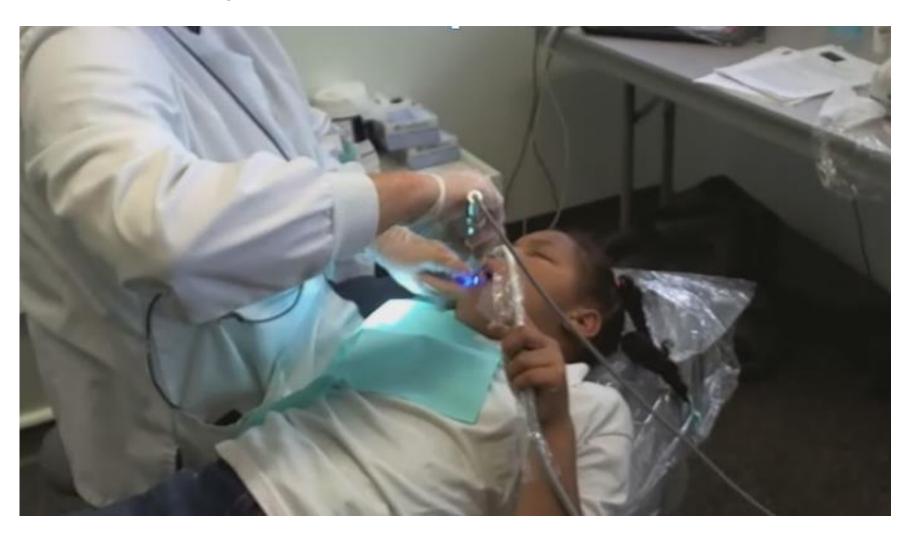
MAYSA NAMAKIAN, MPH; PAUL SUBAR, DDS, EDD; PAUL GLASSMAN, DDS, MA, MBA; ROBERT QUADE, PHD, MBA; AND MAUREEN HARRINGTON, MPH

ABSTRACT This study evaluated the agreement of a dentist's conclusions reached through an in-person versus a virtual examination. The dentist determined whether a patient was healthy enough to be treated only by allied dental personnel in a community setting or whether the patient needed to be seen by a dentist. The study concludes that a virtual examination is a strong substitute for an in-person examination and validates the application of telehealth-enabled examinations.

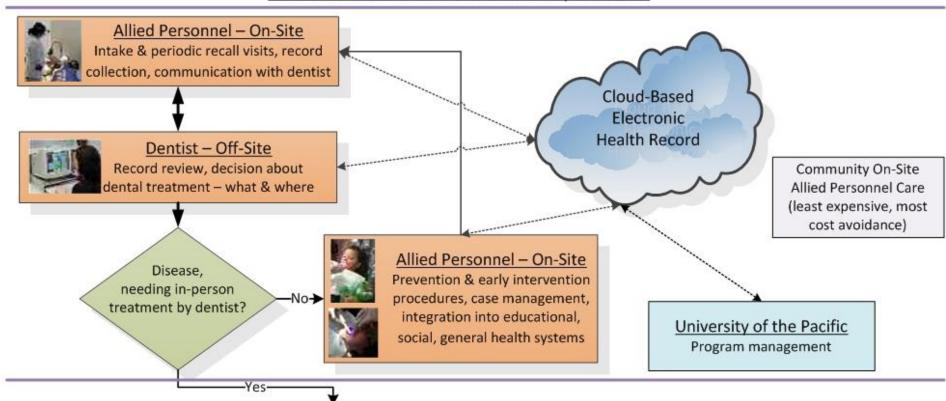
The Virtual Dental Home Concept Model



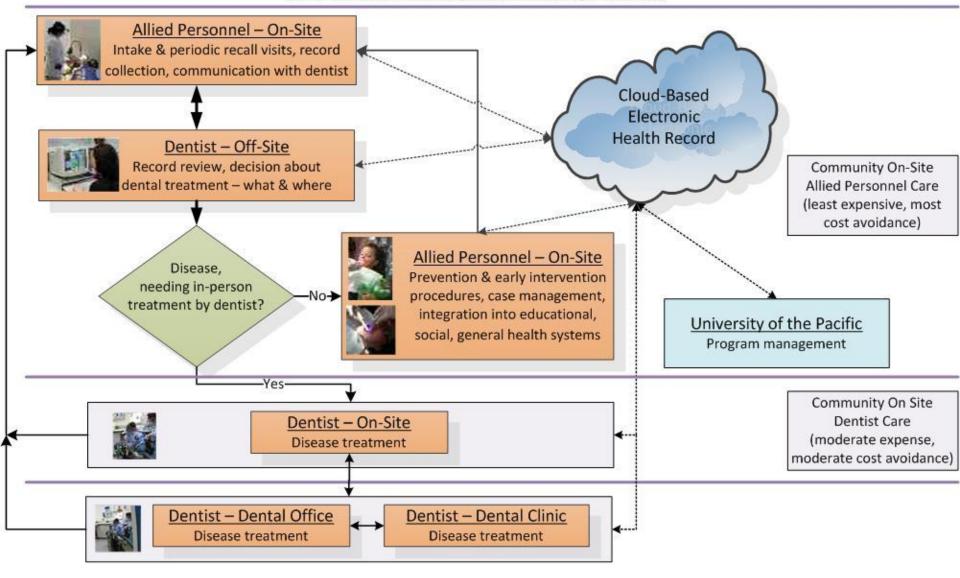
Community-based Prevention and Early Intervention Procedures



The Virtual Dental Home Concept Model



The Virtual Dental Home Concept Model





Oral Health Systems for Underserved Populations

Geographically Distributed

Collaborative

Telehealth Enabled

Prevention Focused

Systems of Oral Health Care Without Walls

Oral Health Systems for Underserved Populations

Geographically Distributed



Oral Health Care Team

Current VDH Sites

- Sacramento Elementary school-based facilities working with community dentists
- Visalia/Fresno Nursing home facilities working with community dentists
- San Diego Head Start Centers and Elementary schools working with a health centers
- Eureka Residential facilities for people with disabilities working with a health center
- Alameda and Contra Costa Counties Residential facilities for people with disabilities working with community dentists
- Santa Clara and Santa Cruz Counties Residential facilities for people with disabilities working with community dentists
- San Mateo County Residential facilities for people with disabilities working with community dentists
- Pacoima a Community Center working with community dentists
- San Mateo County Head Start Centers working with a Health Center
- Los Angeles Head Start Centers working with a Health Center

Patients and Visits

Population Type	# of Patients Seen	Total Visits
Head Start	871	2537
Elementary	214	1027
Long Term Care	179	798
Multifunction Community Center	221	483
Regional Center	112	486
Total	1597	5331

Referrals to Dental Offices

Type of Site	% Needing Referral to Dental Office
Elementary	66%
Long Term Care	51%
Head Start	43%

HWPP Procedures Completed

Population Type	# of Patients Seen	Xrays Taken in Utilization	ITRs Placed in Utilization	ITRs placed in Training
Head Start	871	351	61	40
Elementary	214	300	14	20
Long Term Care	179	109	178	10
Multifunction				
Community Center	221	201	33	20
Regional Center	112	64	54	20
Total	1597	1025	340	110

Data Current as of 4/30/13

Ratings of Procedures

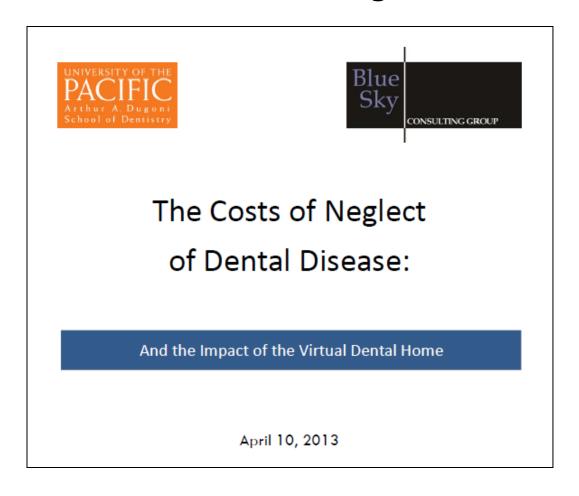
Procedure Performed During Utilization Phase	#	# of Rated as Acceptable	# of Rated as Unacceptable	Adverse Outcomes
Radiographic				
Decision	1597	1597	0	0
Interim Therapeutic				
Restorations	340	340	0	0
All Other Procedures	8934	-	-	0

Administrators Survey

How satisfied are you with the dental care			
provided through the VDH?			
Satisfaction	Response Percent	Response Count	
Very satisfied	96.2%	25	
Somewhat satisfied	3.8%	1	
Not very satisfied	0.0%	0	
Not at all satisfied	0.0%	0	
Don't know	0.0%	0	

The Virtual Dental Home Cost Analysis (as of 2/28/31)

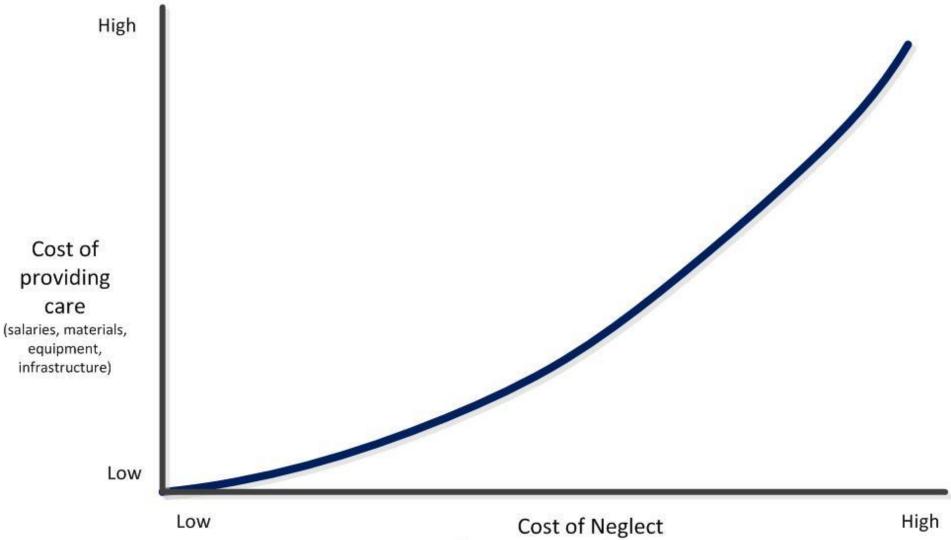
Reductions of the costs of neglect

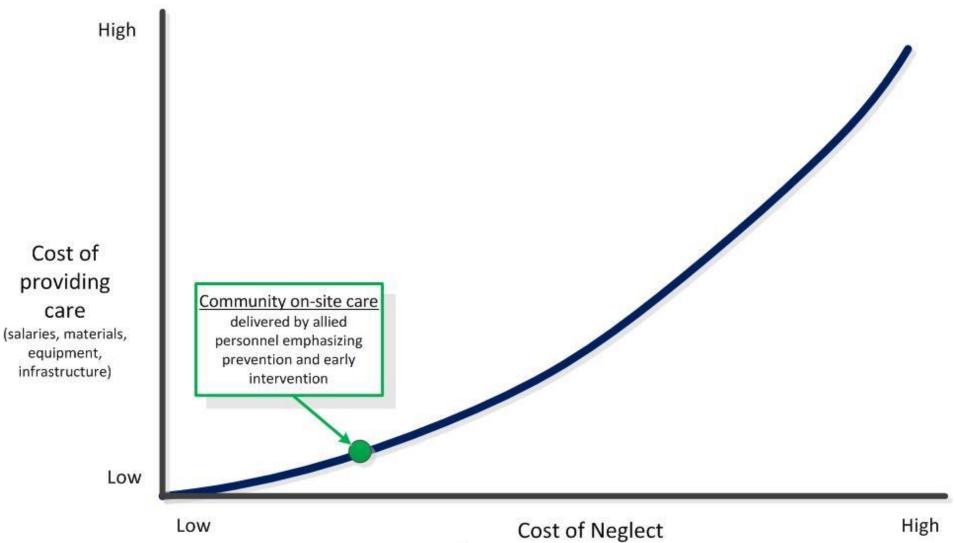


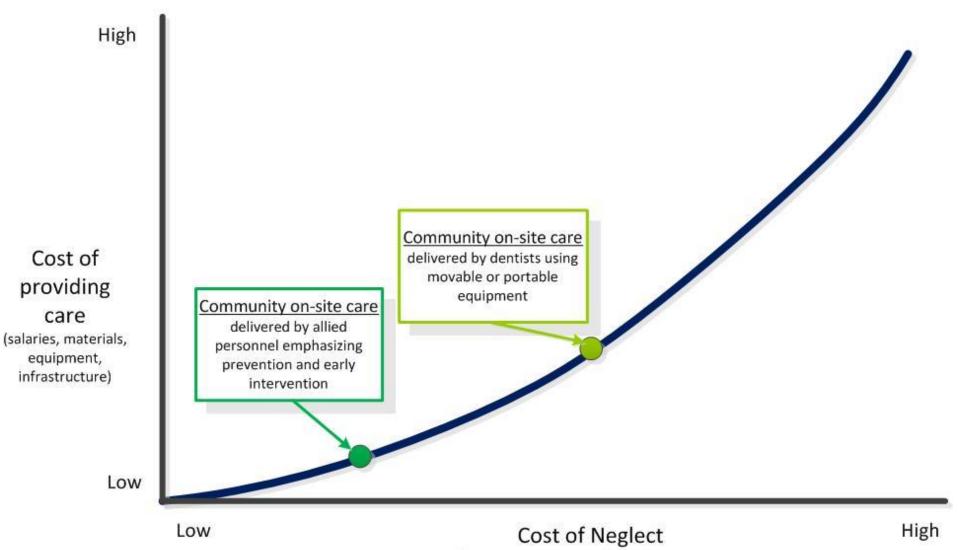
THE COSTS OF NEGLECT OF DENTAL DISEASES

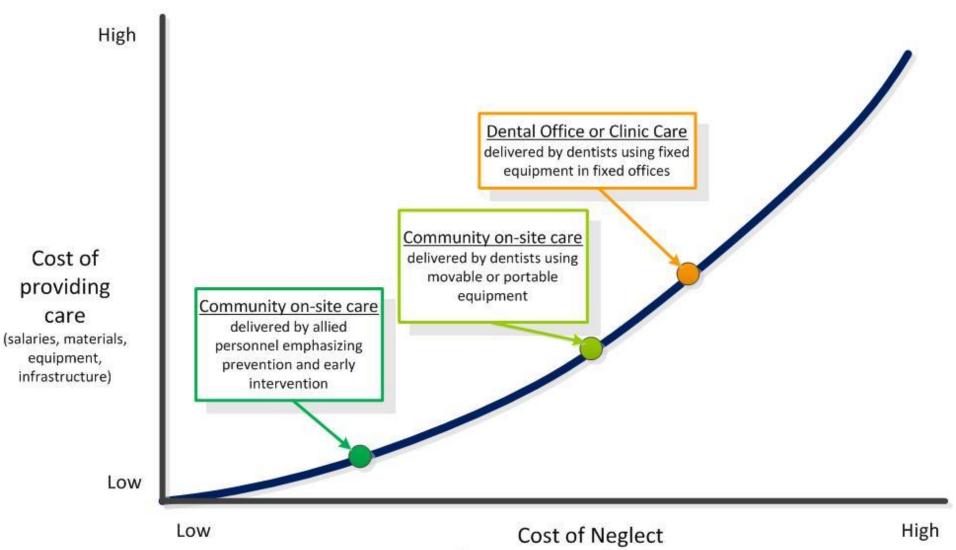
Neglected dental disease can lead to serious, widespread, and sometimes tragic consequences, including missed school days among children and missed work among adults, increased expenses for advanced reparative dental treatment, preventable visits to hospital emergency departments and operating rooms, decreased social engagement and employability among adults with missing teeth, and even occasional life threatening infections.

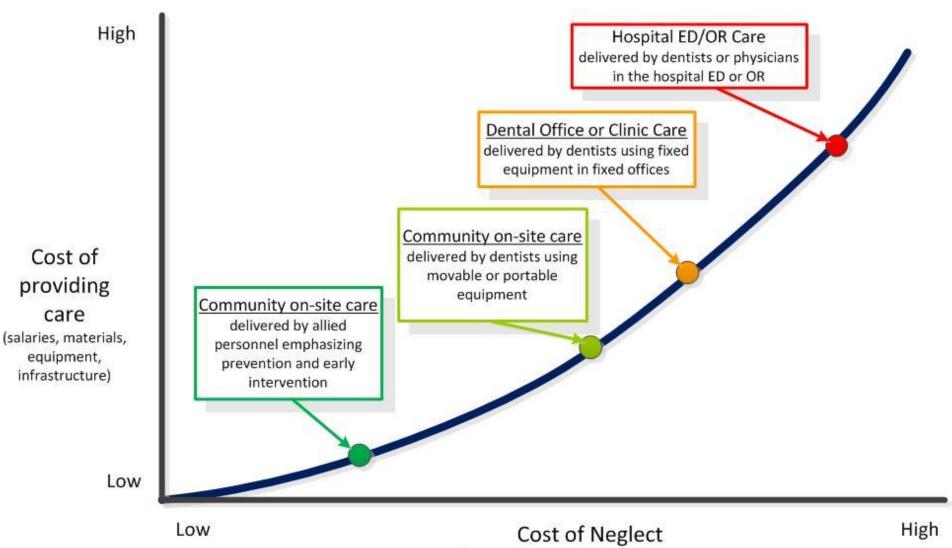
Emphasizing scientifically validated prevention and early intervention procedures can help to increase both clinical and cost effectiveness of such a program. Indeed, our analysis suggests that if 1000 children enrolled in Head Start who were previously not receiving dental services were to participate in such a program, California's MediCal program would actually save \$2000 because the cost of providing the services would be more than offset by lower costs stemming from the consequences of neglect. This is just one example of the potential benefits of such a research and prevention based program; other populations stand to reap benefits as well.

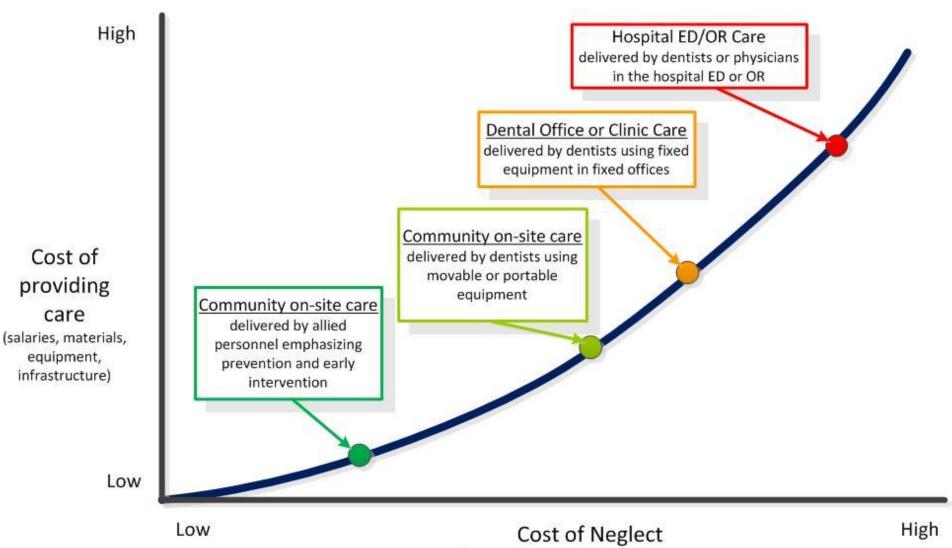












Current Regulatory Barriers

- HWPP duties need to be moved to statute
- Need to clarify payment for telehealth enabled procedures

AMENDED IN ASSEMBLY MARCH 21, 2013

CALIFORNIA LEGISLATURE—2013-14 REGULAR SESSION

ASSEMBLY BILL

No. 1174

Introduced by Assembly Member Bocanegra

February 22, 2013

An act to amend Sections 1752.4, 1753.5, 1753.6, and 1910 of the Business and Professions Code, and to add Section 14132.726 to the Welfare and Institution Code, relating to oral health.





The Virtual Dental Home: Overview and Results

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Professor and Director of Community Oral Health
University of the Pacific School of Dentistry
San Francisco, CA





Summary of Key Issues & Opportunity for Questions



The National Telehealth Resource Center Webinar Series

3rd Thursday of every month Next Webinar:

Telehealth Topic: Home Monitoring

Presenter: Pacific Basin Telehealth Resource Center

Date: Thursday, September 19, 2013

Times: 9:00AM HST, 10:00AM AKST, 11:00AM PST, 12:00PM MST, 1:00PM CST, 2:00PM EST



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http://www.surveymonkey.com/s/NationalTRCWebinarSeries

TRC activity is supported by grants from the Office for the Advancement of Telehealth, Office of Health Information Technology, Health Resources and Services Administration, DHHS