Update on the Virtual Dental Home, On the Road to Value in Oral Health Care

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Dental Care Utilization in US

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Total Population</th>
<th>% Utilization</th>
<th>Utilizers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-18</td>
<td>69,916,504</td>
<td>48.5%</td>
<td>33,909,504</td>
</tr>
<tr>
<td>20-64</td>
<td>195,794,862</td>
<td>36.0%</td>
<td>70,486,150</td>
</tr>
<tr>
<td>65+</td>
<td>47,760,852</td>
<td>43.7%</td>
<td>20,871,492</td>
</tr>
<tr>
<td>Total Utilizers</td>
<td>313,472,218</td>
<td>40.0%</td>
<td>125,267,147</td>
</tr>
<tr>
<td>Total Non-Utilizers</td>
<td>60.0%</td>
<td>188,205,071</td>
<td></td>
</tr>
</tbody>
</table>

Most non-utilizers are low income and have significantly more disease than utilizers!

http://www.ada.org/~/media/ADA/Science%20and%20Research/HPI/Files/HPIgraphic_1117_2.pdf?la=en

The Era of Accountability

http://www.ada.org/~/media/ADA/Science%20and%20Research/HPI/Files/HPIgraphic_1117_2.pdf?la=en


The current dental care system primarily serves the wealthiest and healthiest segments of the population!
Health Care and Social Spending as a Percent of GDP 2013

Social Determinants of Health


The Quadruple Aim

Measurement and Payment Systems

- DQA
- Payers
  - Dental Benefit Companies
  - Public Payers
- HRSA: Health Center system
- Group Practices
**Oral Health Measures**

Variation over time in system
- Decision about location for dental treatment
  - Community site
  - Dental Office
- Demineralization
  - Progression
- Dental Findings
  - No caries
  - Untreated caries
  - Treated caries
  - New caries

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**Oral Health Measures**

Variation over time in system
- Treatment Urgency
  - No problems – keep usual appointment
  - Early care needed – few weeks
  - Urgent care needed – few days
- Risk Category
  - Low
  - Medium
  - High
- Patient Satisfaction

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**The Declining Role for the Dental Drill**

Remineralization
Buffering Agents
Caries Arresting Medications
Sealing Caries

**Care for Chronic Oral Diseases**

Acute Care/Surgical Intervention
Chronic Disease Management

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**Total Health: How Long and How Well We Live**

- Environment, Public Health
- Health Care Delivery (procedures)
- Behaviors (alcohol, tobacco, diet, exercise, preventive dental procedures?)

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Workforce
• Allied dental personnel
  – Community dental health coordinator
  – Expanded function dental assistants
  – Public/advanced practice health dental hygienists
  – Dental therapists
• Non-dental personnel/interprofessional integration
  – Community-health workers
  – General health professionals – physicians, nurses, etc.
  – Social service professionals
  – Educational system personnel – family advocates, teachers, etc.

Space and Equipment
Community-based Prevention and Early Intervention Procedures
Oral Health Systems for Underserved Populations

Telehealth-Connected Teams

- Reach people, emphasize prevention, and lower costs
- Majority of people kept and verified healthy on-site
  - About 2/3 of children had all needed services completed by dental hygienist
- Continuous presence
- Community organization integration
- Dentist integration

Virtual Dental Home Timeline

- 2009
- 2015
- 2016+

Proof of Concept
Legislation/Regulation
Expansion/Research

OR, CO, HI

OR, CO, WI, MN, AZ, MO...

The Virtual Dental Home Current Trainees

- 8-DentalQuest Learning Collaborative
- 19-JHCS Dental Transformation Initiative
- 5-Delta Dental
- 5-HRSA
- 1-CA Wellness
- 2-Regional Centers
- 2-Idaho
- 3-Oregon
- 2-Columbia
- 2-Rhode Island

Total = 50 entities
The Virtual Dental Home Current Trainees

Ravenswood Family Health Center

San Mateo County

– 1 site inVDH Demonstration
– Partner – IHSD Head Start Agency
– 1 part time community team
– East Palo Alto

Total = 50 entities
States Adopting Virtual Dental Home Systems

2018

2019

VDH Funded Projects
VDH Systems
VDH Discussions

Community Engaged Dental Care System

Dental Care in the Future

• Dental Practice =
  – Geographically distributed
  – Telehealth enabled
  – Oral health teams
• Chronic disease management
  – using biological, medical, behavioral, and social tools
• Integrated with general health, educational, and social service systems
• Interacting with the majority of the population
• Focused on oral health outcomes in the Era of Accountability

The Legal and Regulatory Environment

There are a number of legal and regulatory issues to consider when designing or implementing a telehealth-connected system of care. These issues are briefly described here.
Legal and Regulatory Environment

Ability to use telehealth
- Scope of practice laws, regulation, interpretation
  - Ability of allied personnel to collect diagnostic records prior to a patient being seen by a dentist
  - Ability of allied personnel to perform procedures in locations separate from dentists
  - Understanding that dentists can develop a diagnosis and treatment plan without an in-person visit with the patient

Dentist Examination

ADA CDT 2017 Definitions
- “Clinical Oral Evaluations”
  - “… recognize the cognitive skills necessary for patient evaluation. The collection and recording of some data and components of the dental examination may be delegated; however, the evaluation, which includes diagnosis and treatment planning, is the responsibility of the dentist.”

Legal and Regulatory Environment

Ability to be paid for services performed using telehealth technologies
- Principle: consider telehealth technologies as communication tools, distinct from the health services that are being provided.
- Require payors to pay for covered services whether performed in-person or with the use of telehealth technologies
- Include store-and-forward as well as real time

Legal and Regulatory Environment

Ability to be paid for services performed using telehealth technologies
- Suggested language:
  - “face-to-face contact between a health care provider and a patient is not required for services performed using real time or store-and-forward teledentistry.”

Training on Using Telehealth-Connected Teams
Telehealth-Connected Teams: Training

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