Adapting deliberative democracy for clinical guideline implementation in a dental setting

AN IMPLEMENTATION RESEARCH PROJECT

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**Translational Research Continuum**

<table>
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<th>Stage</th>
<th>Examples</th>
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<tr>
<td>T1</td>
<td>Translation to Humans&lt;br&gt;• Pre-clinical and animal studies&lt;br&gt;• Proof of Concept (POC)&lt;br&gt;• Early stage clinical trials</td>
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<td>T2</td>
<td>Translation to Patients&lt;br&gt;• Later phase clinical trials</td>
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<td>T3</td>
<td>Translation to Practice&lt;br&gt;• Health services research (HSR)&lt;br&gt;• Dissemination and implementation&lt;br&gt;• Studies in real world settings</td>
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<td>T4</td>
<td>Translation to Population Health&lt;br&gt;• Interventions and improve population health&lt;br&gt;• Social determinants of health</td>
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**DISGO**<br>DISSEMINATION and IMPLEMENTATION of SEALANT GUIDELINES in ORGANIZATIONS
2 approaches to EBM used in mature healthcare delivery systems

Guideline Model

Clinical Practice Guideline

Implementation

High Quality Research

Systematic Review

Dissemination

Individual Patient Care Model

PICO

EVIDENCE

“Do Things Right”

“Do Right Things”
Patients cannot benefit from interventions they do not receive...

**IMPLEMENTATION:**
Develop strategies to integrate evidence-based interventions within a particular setting (e.g., a clinic)

Goal: Make the “Best” evidence routine

(Structural) Barriers
- Training
- Education
- Workflow
- Workforce
- Financing
- Buy In
- Sustainability
GOAL: understand organizational processes for guideline implementation (“Dental Sealant” CPG)

SITE: Kaiser Permanents Dental Clinics (n=16 clinics)

PRIMARY OBJECTIVE: Is the deliberative democracy process effective in generating implementation strategies that work?
• **Aim 1 (Exploration)**
  • Identify the forces and group dynamics influencing current clinical practices relative to the clinical practice guideline (CPG).

• **Aim 2 (Preparation)**
  • Determine the feasibility and acceptability of a process for developing an implementation strategy for CPG.

• **Aim 3 (Implementation)**
  • Determine the effectiveness of an implementation strategy for the CPG.
What is Deliberative Democracy?

Goal: Informed Opinion and Expanded Collective Wisdom (not consensus)

What would people think about an issue after they receive expert information and engage alternative perspectives in a deeply deliberative process?

*Adapted from a model developed by James Fishkin, Center for Deliberative Democracy (Stanford)*
What is Deliberative Democracy?

3 Stages for Engaging Difference as a Resource

- STAGE 1: Develop Briefing Materials
  - Develop a Discussion Guide
  - Capture “Current Conversation”
  - Represent issues from diverse perspectives
  - Provide diverse models for thinking about problems and solutions

- STAGE 2: Hold Deliberative Forum
  - Recruit diverse participants
  - Enable participants to share their lived experience and hear the lived experience of others
  - Provide a Resource Panel with diverse expertise

- STAGE 3: Administer Exit Survey
  - Obtain informed opinions from participants
### Evidence-based Clinical Practice Guideline for the Use of Pit-and-Fissure Sealants: A Report of the American Dental Association and the American Academy of Pediatric Dentistry

**Summary of Clinical Recommendations on the Use of Pit-and-Fissure Sealants in the Occlusal Surfaces of Primary and Permanent Molars in Children and Adolescents**

<table>
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<th>Recommendation</th>
<th>Quality of Evidence</th>
<th>Strength of Recommendation</th>
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<td>Increased perception of voice</td>
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<td>Increased sense of legitimacy</td>
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**Guideline adherence** (primary outcome)

**CPG (dental sealants)**

**Routine Practice**

- Deliberative Democracy process
- Increased perception of voice
- Increased sense of legitimacy
- Increased buy-in
Study Update - Aim 1

• Observations, Interviews, and Focus Groups

• **Method**: Interviews with Kaiser Permanente Dental Care Program leadership,
  - 3 focus groups with dental hygienist and assistants
  - 2 with dentists

• **Results**
  - **Perceived barriers**
    1. shortcomings in the implementation process and infrastructure
    2. resource constraints.
  - **Perceived opportunities** (dissemination and implementation of CPG)
    1. recognition of the importance of guidelines in dental practice and
    2. well-functioning workflows in sub-specialties.
Study Update – Aim 2 & 3 are in progress

**Next steps:**
- Finalizing the clinical protocol to submit to NIDCR
- Prepping materials for the pilot study
  - Context Setting Document
  - Post DD Session Survey
  - List of implementation strategies
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