

# Adapting deliberative democracy for clinical guideline implementation in a dental setting

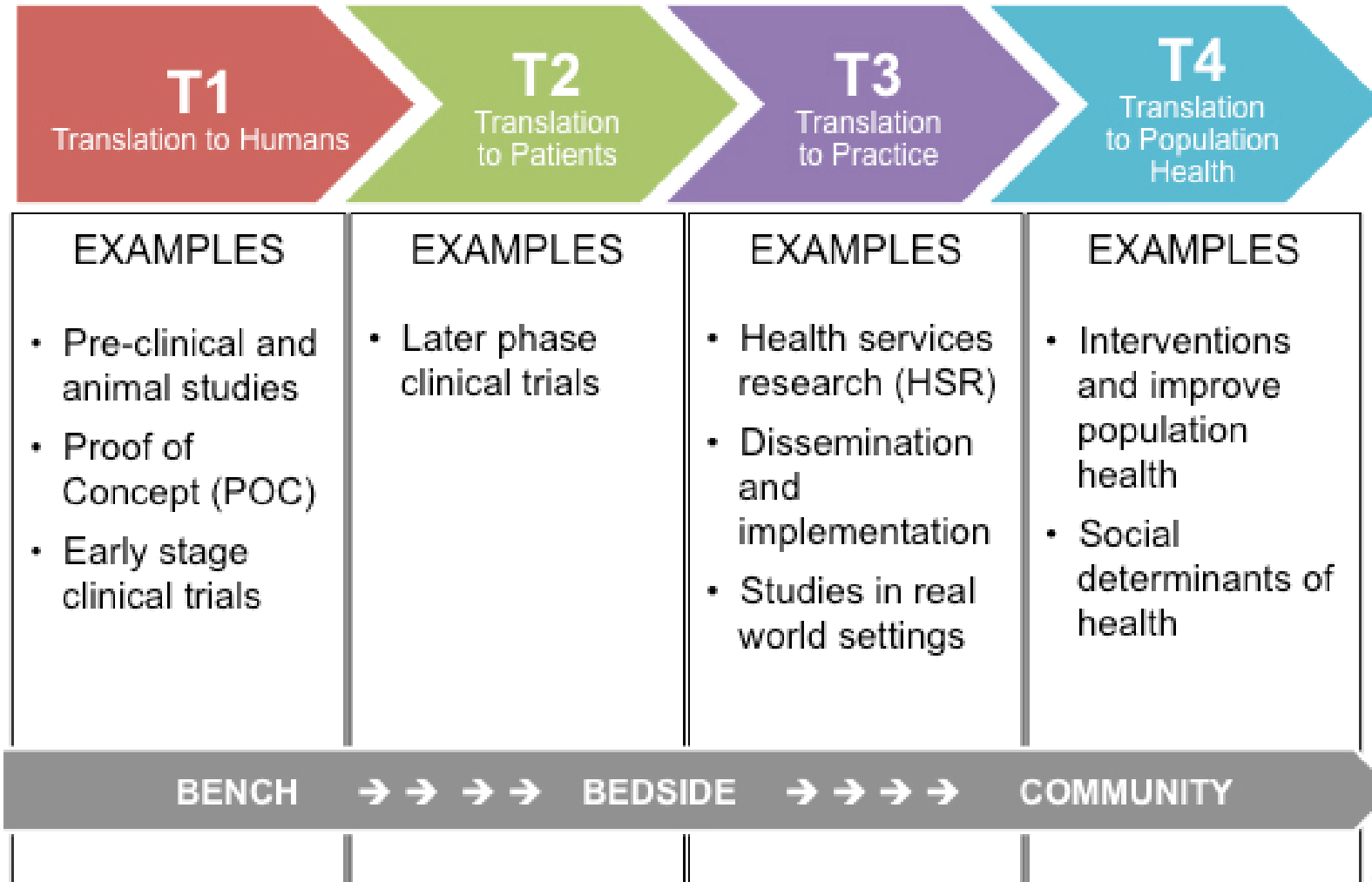
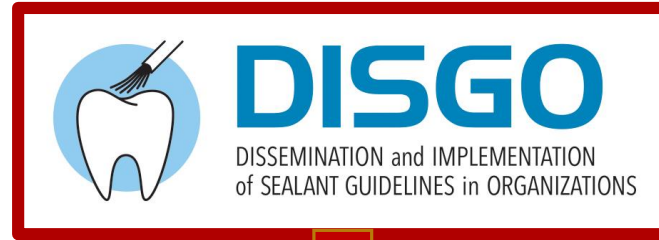


AN IMPLEMENTATION RESEARCH PROJECT



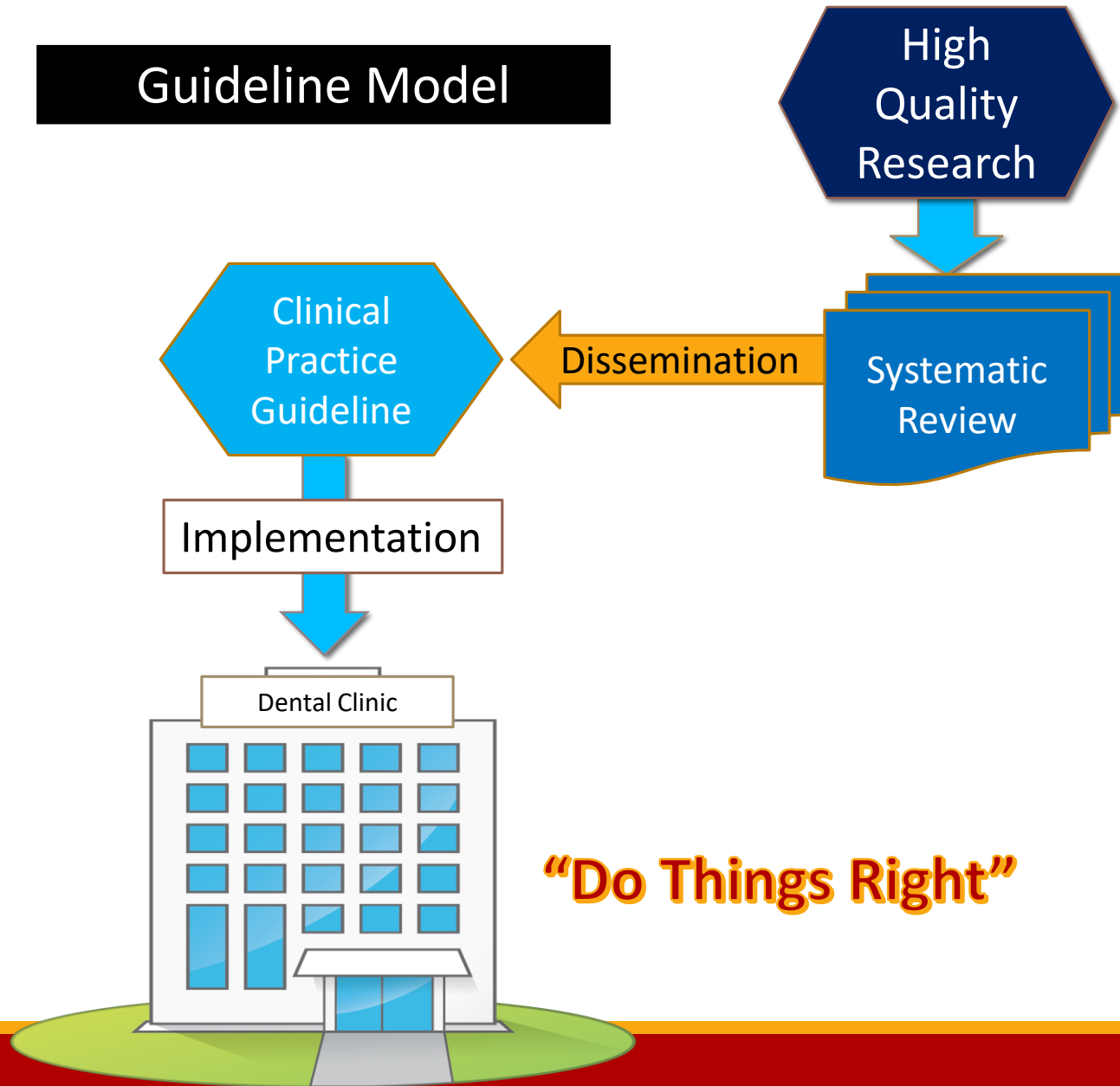
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# Translational Research Continuum

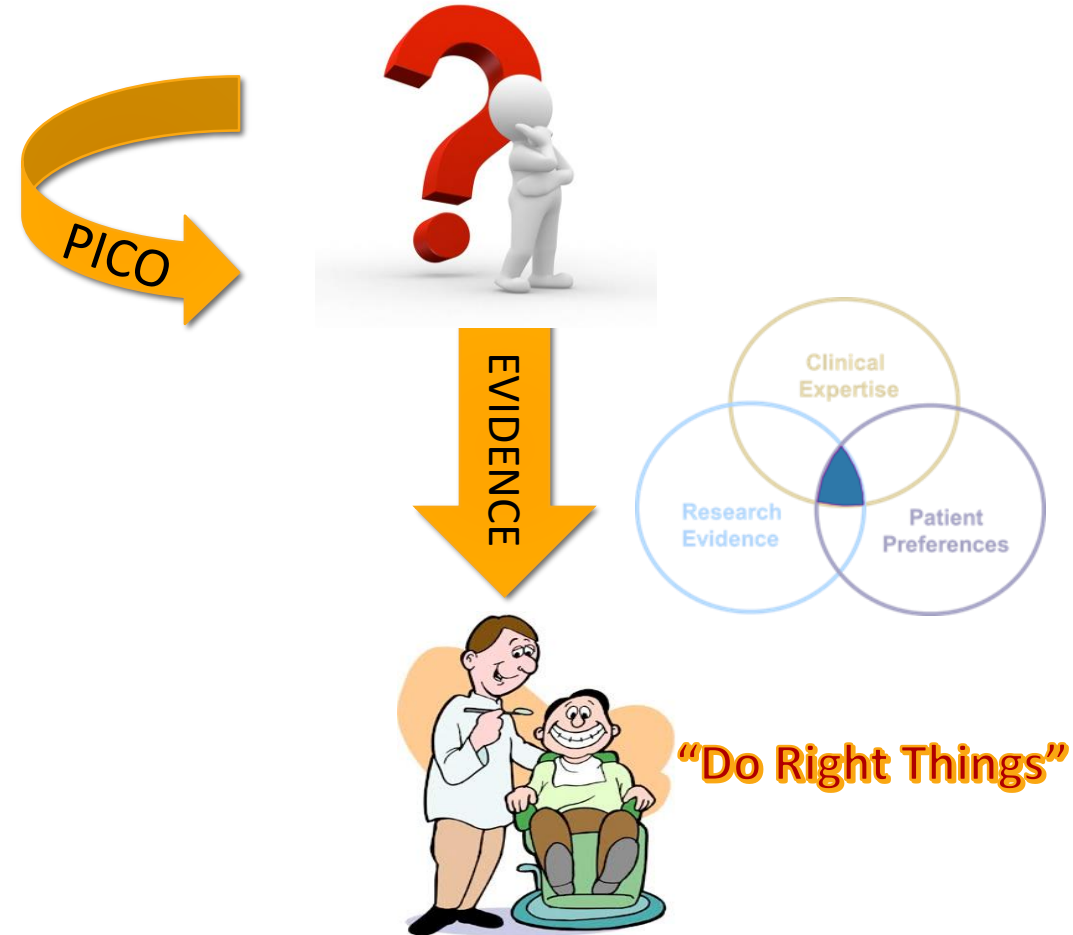


# 2 approaches to EBM used in mature healthcare delivery systems

## Guideline Model



## Individual Patient Care Model



# 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)

## Implementation strategy



## (Structural) Barriers

- Training
- Education
- Workflow
- Workforce
- Financing
- Buy In
- Sustainability

Goal: Make the “Best” evidence routine



# DISGO

DISSEMINATION and IMPLEMENTATION  
of SEALANT GUIDELINES in ORGANIZATIONS

**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?



Before



After



# DISGO

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- **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?

## Pre-Poll Steps

Population Sample



Participants Read Background Info



## The Day of Deliberation

Group Discussion



Resource Panel Q & A



Group Discussion Continues



Exit Survey



**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?**

# What is Deliberative Democracy?

## 3 Stages for Engaging Difference as a Resource

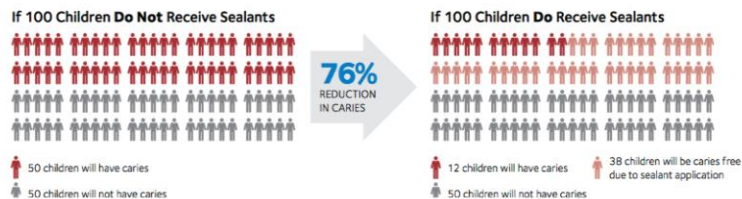
- **STAGE 1: Develop Briefing Materials**
  - Develop a Discussion Guide
  - Capture “Current Conversation”
  - Represent issues from diverse perspectives
  - Provide diverse models for thinking about problems and solutions
- **STAGE 2: Hold Deliberative Forum**
  - Recruit diverse participants
  - Enable 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**

Recommendation	Quality of the Evidence	Strength of Recommendation
The sealant guideline panel recommends the use of sealants compared to non-use in permanent molars with both sound occlusal surfaces and non-cavitated occlusal caries lesions in children and adolescents.	Moderate	Strong
The sealant guideline panel suggests the use of sealants compared to fluoride varnishes in permanent molars with both occlusal sound surfaces and non-cavitated occlusal caries lesions in children and adolescents.	Low	Conditional
The panel was unable to determine superiority of one type of sealant over another due to the very low quality of evidence for comparative studies. The panel recommends that any of the materials evaluated (e.g. resin-based sealants, resin-modified glass ionomer sealants, glass ionomer cements, and polyacid-modified resin sealants in no particular order) can be used for application in permanent molars with both occlusal sound surfaces and non-cavitated occlusal caries lesions in children and adolescents.	Very Low	Conditional



CPG (dental sealants)

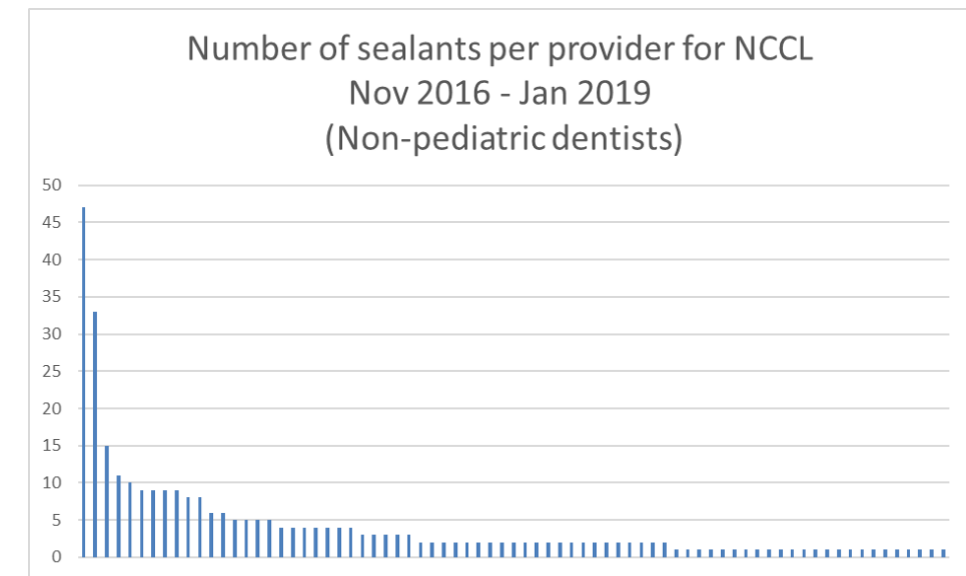
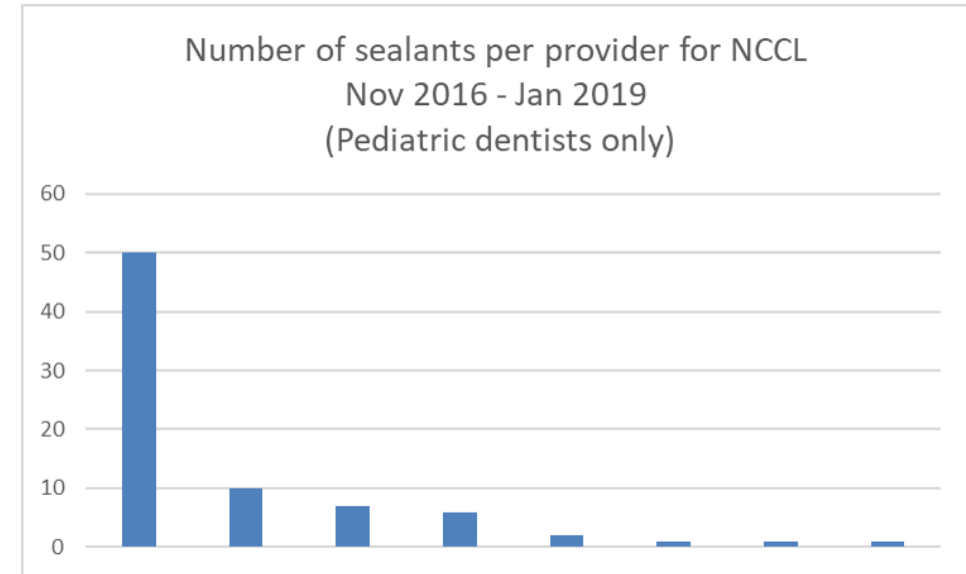


Routine Practice



# 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



# DISGO

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of SEALANT GUIDELINES in ORGANIZATIONS

## STUDY TEAM

### Principal Investigators:

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