

Alcohol SBIRT Implementation In Adult Primary Care: Preliminary Results from an Integrated Health Care Delivery System

**Jennifer Mertens, PhD, Felicia Chi, MPH, Stacy Sterling, MSW, MPH,
David Pating, MD, Constance Weisner, DrPH, MSW**

**INEBRIA conference
Boston, MA
September 21, 2011**

**Drug and Alcohol Research Team (DART)
Division of Research, Kaiser Permanente
University of California, San Francisco**

Funded by NIAAA R01AA18660

Background

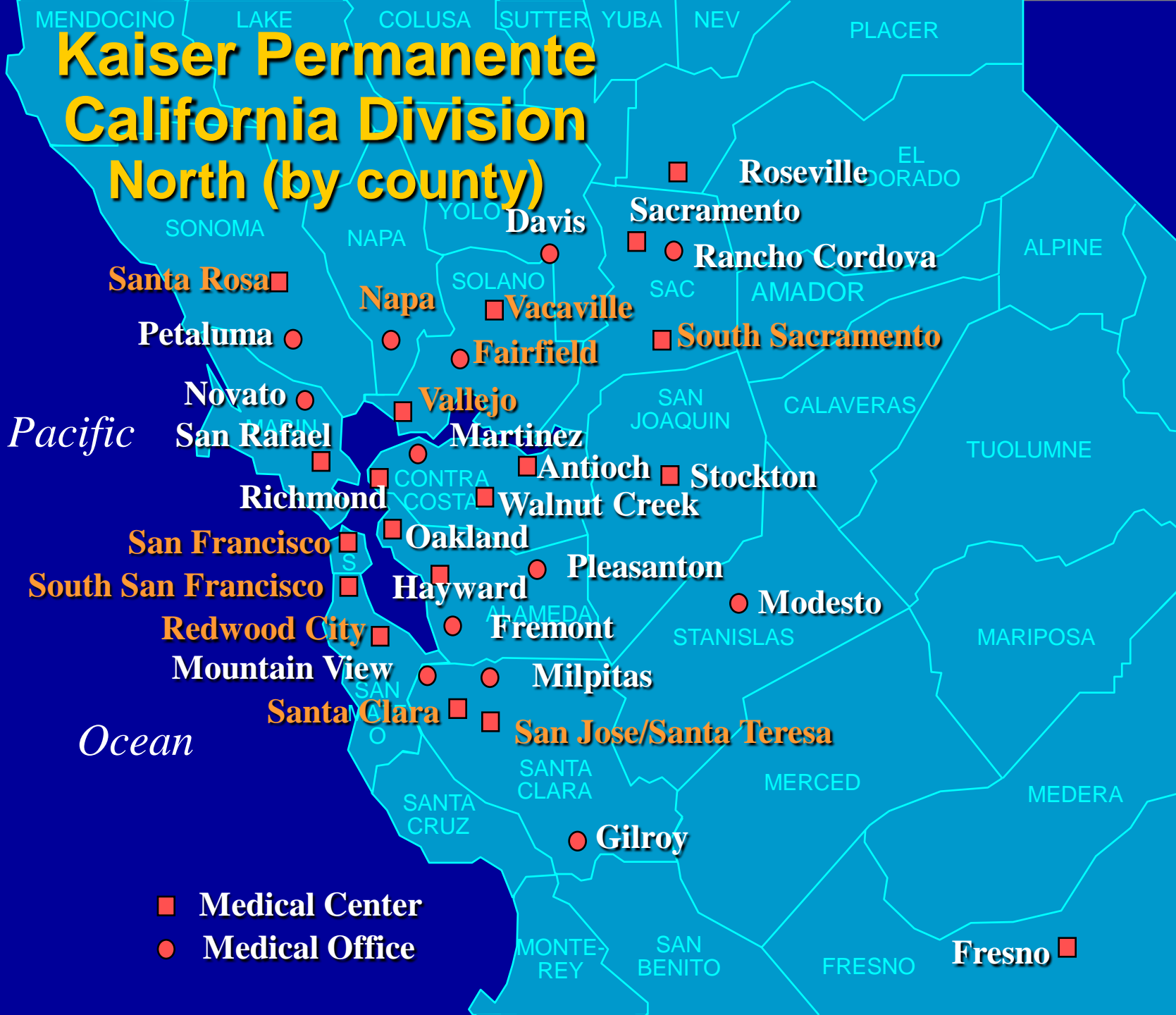
- Randomized studies have found similar effectiveness when non-physician providers deliver SBI compared to physician delivery.
- The ADVISE study examines whether non-physician (versus physician) delivery of SBIRT in primary care (PC) clinics increases implementation and sustainability.

Babor et al. *Alcohol Alcohol*. 2006;41:624-631.

Ockene et al. *Arch Intern Med*. 1999;159:2198-2205.

Reiff-Hekking et al. *J Gen Intern Med*. 2005;20:7-13.

Kaiser Permanente California Division North (by county)



- Medical Center
- Medical Office

- Integrated health care system (medical, psychiatry, AOD services)
- Non-profit health plan
- Serves 3.4 million members (35% of insured population in the region)
- 18 hospitals, 27 AOD outpatient clinics

Randomization

Medical Centers

1/3 of PC clinics
randomized to
Primary Care Provider
PCP Arm

1/3 of PC clinics
randomized to
Non-Physician Provider
NPP Arm

1/3 of PC clinics
Randomized to
Control Arm

PCPs trained to
conduct
SBIRT

- Medical Assistants (MAs)
trained to Screen
- Behavioral Medicine Specialists (BMSs),
Clinical Health Educators (CHEs),
Or Nurses
trained to conduct BI & RT

Informational Session
on How to Use
NIAAA Screener

Why this design?



Sample

- 54 Primary Care clinics
- 518 clinicians
- 460,000+ patients

Study Aims

- Implementation and Sustainability by Arm:
 - Outcomes: Rates of Screening, Brief Intervention, Referral, and Follow-up
- Qualitative Analysis of Implementation Process
- Factors Affecting Implementation by Arm
- Implementation and Intervention Costs by Arm
- Effectiveness by Arm – Patient Outcomes

Intervention: NIAAA Guide

- **Based on NIAAA Guide “Helping Patients Who Drink Too Much”**
- **Curriculum: Adapted from Alcohol Clinical Training Project - R. Saitz**
 - www.mdalcoholtraining.org
- Feedback, advice, & addressing readiness, and collaborative goal-setting
- Providing written NIAAA brochure: “Tips for Cutting Back” (Spanish, Chinese, and Vietnamese translations)
- Referral to AOD clinic for further assessment

Data Collection

- Primary Care Leader Survey:
 - Chiefs of Medicine from ADVISE medical centers and MD leaders for each Clinic (Total N=62)
 - Response Rate=73%
- Qualitative Interviews / Feedback at Booster Trainings
- Kaiser Permanente databases
 - Implementation outcomes
 - Patient and provider characteristics
 - Patient outcomes

Implementation Process

Econsultca, Six li MRN 110012963053 Age 45 Y Sex F PCP Allergies Vancomycin, Amino Acid Supplement, Fc* Alert Spec Feat PrtD Inactive kp.org

SnapShot 7/26/2010 visit with A X CEMD MD PHQ-9 Click to set

Chart Review Images Questionnaires Admin Benefits Inquiry References SmartSets Summary Open Orders Print AYS To PCP: FYI To PCP: Act

Results Review Allergies: Vancomycin, Amino Acid Supplement, Formaldehyde, Tetanus Antitoxin, Hepatitis A Virus Vaccine RTF AYS Fast VOT

Allergies Last Vitals: BP: P: T: T Src: Resp: W: H: SpO2: PF: BMI: BSA: OB/GYN Status: OB EDD: Tobacco: Not Asked

Medications

Flowsheets

Problem List

History

Letters

Demographics

Scan

CIPS

Prev Health Prompt

Patient Report

eConsult

Order Entry

Imm/Injections

Doc Flowsheet

Work/Activity Status

- Charting
 - Chief Complaint
 - Vitals
 - BestPractice
 - Visit Notes
 - Progress Notes
 - HP Notes
 - Relevant Results
 - SmartSets
 - Diagnoses
 - Orders
 - Pt. Instructions
 - LOS
 - Follow-up
 - Close Encounter

Chief Complaint

None

Vitals

+ New Set of Vitals

No readings taken.

Other Vitals
 OB/GYN Status: OB
 Tobacco
 Status: Not Asked
 Verified: Never verified

BestPractice Alerts

Please complete the Alcohol Screening for this patient.

Jump to Alcohol Screening

Refresh

Visit Notes

None

DOC Flowsheet

File Add Row Add Group Add LDA Cascade Add Col Insert Col Device Compact Last Filed Details Graph Go to Date Values By Refresh Legend Link Lines

Flowsheet: ALCOHOL SCREENING QUALITY OUTREACH-SUPPORT STAFF Quality Outreach-Provider

ALCOHOL SCRE...	<input checked="" type="checkbox"/>		07/19/10	
Daily Limits:	<input checked="" type="checkbox"/>		1400	
Weekly Limits:	<input checked="" type="checkbox"/>		Daily Limits:	
Dependence Risk:	<input checked="" type="checkbox"/>	(Male 18-65) How many times in the past year have you had 5 or more drinks a day?	2	
Actions Performed:	<input checked="" type="checkbox"/>	(Female 18+) and (Male 66+) How many times in the past year have you had 4 or more drinks a day?		
			Weekly Limits:	
		On a typical drinking day, how many drinks do you have?		
		On average, how many days a week do you have an alcoholic drink?		
			Dependence Risk:	
		In the past year, have you sometimes been under the influence of alcohol in situations where you could		
		Have there often been times when you had a lot more to drink than you intended to have?		
		In the past year, have you sometimes been under the influence of alcohol in situations where you could have caused an accident or gotten hurt?		
		Was an intervention performed?		
		Was patient referred to CD Services?		

Implementation

- Communication with Regional and Local Leadership
- Training:
 - Included skills-based role-play, case study video
 - 2-hour trainings for PCPs in PCP arm
 - 2-hour trainings for NPP arm
 - 1st hour for both NPPs and PCPS
 - 2nd hour for NPPs only
 - 30 Minute Booster Training
 - 1-hour trainings for MAs in NPP arm
 - Conducted on-site during lunch hours; provided lunches and CME credits
- Technical Assistance in-person visits, by phone and email
- Quarterly performance feedback reports

PCP Arm

PCP screens using NIAAA screener

Negative:
No further
action.

Positive: PCP
administers
screeners for weekly
limits and alcohol
dependence

Negative for
Dependence:
Brief
Intervention
+ follow-up

Positive for
Dependence:
PCP Refers to
AOD Treatment
+ follow-up

Non Physician Provider (NPP) Arm

MA screens using NIAAA screener

Negative:
No further
action.

Positive:
PCP sees screening results; hands
off patient to see NPP

NPP administers screeners for weekly
limits and alcohol dependence

Negative for
Dependence:
Brief
Intervention
+ follow-up

Positive for
Dependence:
NPP Refers to
AOD Treatment
+ follow-up

SBIRT Implementation Facilitators: Qualitative Findings

NPP Arm Facilitators

- Medical Assistants' vital signs screening (including smoking)
- Clinical Health Educators'
 - comfort and familiarity with motivational interviewing techniques
 - openness to adding alcohol SBIRT to their practice
- Fewer time constraints (particularly for CHEs and some BMSs)
- More flexible schedules for CHEs and some BMSs

Implementation Outcomes by Arm: Preliminary Findings

Percentage Screened and Given BI/RT by Study Arm – First Quarter of Study (N=227,308 to date)

	PCP Arm	NPP Arm	Control
N Unique Patients	79,642	77,278	70,388
% Screened	11% ^a	54% ^{a,c}	4% ^c
N Screened Positive	821	4719	288
% Given Brief Intervention/Referral among Positive Screens	37% ^{a,b}	1% ^a	0.4% ^b

a, b, and c denote statistically significant differences between groups using GEE models adjusting for patient age, gender, and clustering by facility; p<.05)

What is happening? Implementation Barriers: Qualitative Findings

Barriers to SBIRT in NPP Delivery Mode

Patient Barriers

Patient resistance to seeing the NPP

Primary Care Provider Behavior

- PCP discomfort with “warm handoff” to NPP that didn’t mention alcohol
- Easier to “ignore” screening result from MA
- Some PCPs wanted to address alcohol themselves

Systemic Barriers

- NPP appointment often required separate visit
- Exam room availability

Barriers Across PCP and NPP Arms

- Obstacles re: referral to AOD clinics
- PCP difficulty changing focus from dependence to at-risk drinking
- Resistance to NIAAA Safe Drinking Limits
 - *“All my patients drink that much”*
 - *“I drink that much”*
- PCP’s perceptions that we are asking them to do more for alcohol (i.e., BMI, referral to NPP) than other conditions or health behaviors
- **No sanctions or incentives for SBIRT**

Challenges and Questions for Further Research

Revisiting “Competing Priorities”: What we are up against in the U.S.

- \$ **CMS 2011 STAR quality measures** include:
 - ✓ Staying Healthy: Screenings, Tests, and Vaccines - **13 measures**, e.g., breast and colorectal cancer screening, cholesterol screening, flu vaccine, pneumonia vaccine, physical activity monitoring
 - ✓ Managing Chronic Conditions - **10 measures**, e.g., diabetes monitoring, controlling hypertension
 - ✓ Ratings of Responsiveness - **6 measures**, e.g., patient satisfaction and quality ratings
- \$ **15 CMS core measures of “meaningful use”** of Electronic Health Records, including documenting:
 - ✓ Smoking
 - ✓ Height, weight, BMI
 - ✓ Preferred language, Demographics
 - ✓ Drug allergies
 - ✓ Updated diagnosis and problem list
- \$ **HEDIS Measures** = NCQA ratings = Employer/Purchaser \$\$\$

- **These involve strong financial incentives.**
- **Alcohol SBIRT does not!**

Challenges

- Reimbursement is an important first step, but **SBIRT HEDIS Measures, Stronger Incentives, or Sanctions** would help level the playing field.
- Need for training of physicians on BMI for **all behavioral aspects of health care** and chronic condition management.
- How to help physicians “get” distinction between dependence and drinking beyond maximum safe limits?
- How to effectively refer patients to AOD?

Questions for Future Research

- If SBIRT were incentivized and Medical Assistants screened in both models:
 - how would rates of intervention/referral compare between PCP and NPP delivery?
- Need for integration with other behavioral health (BH) screening/interventions in PC (e.g., other drugs, depression, anxiety, IPV)
 - What interventions are effective and feasible for broad BH screening approaches and multiple BH concerns?

Acknowledgements

Investigators/Staff Scientists

Connie Weisner, DrPH, LCSW

Cynthia Campbell, PhD

Group Leader & Dissemination Lead

Stacy Sterling, MSW, MPH

Health Economist

Sujaya Parthasarathy, PhD

Analysts

Felicia Chi, MPH

Andrea Hessel, MS

Wendy Lu, MPH

Tom Ray, MBA

Project Coordinators

Agatha Hinman, BA

Aliza Silver, MA

Tina Valkanoff, MPH, MSW

Adjunct Investigator

Derek Satre, PhD

Interview Supervisor

Gina Smith Anderson

Research Associates

Georgina Berrios

Diane Lott-Garcia

Melanie Jackson

Cynthia Perry-Baker

Barbara Pichotto

Martha Preble

Lynda Tish

KP Clinicians – Collaborators and Trainers

Steve Allen, PhD

Jennifer Firestone, MD

Murtuza Ghadiali, MD

Carol Havens, MD

Charles Moore, MD

David Pating, MD

Michael Rubino, MD

Matthew Tarran, PhD

**KPNC Chemical Dependency Quality Improvement
Committee**



Questions?

