Addressing Tobacco Use in Korean and Vietnamese Smoking Patients in Community Health Primary Care Settings

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Asian American Research Center on Health (ARCH)

Quarterly Meeting, San Francisco, CA

May 18, 2017

Objective

Examine the efficacy of an interactive "Mobile Doctor" intervention (iMD) that aims to enhance patient-provider discussion and ultimately to promote smoking cessation in Korean- and Vietnamese-speaking patients







Setting Asian Health Services



A community health center in Oakland Chinatown of California





Setting Asian Health Services



Provides comprehensive medical, dental, and behavioral health services in English and 12 Asian languages to over 28,000 medically underserved patients, including lowincome Asian American immigrants





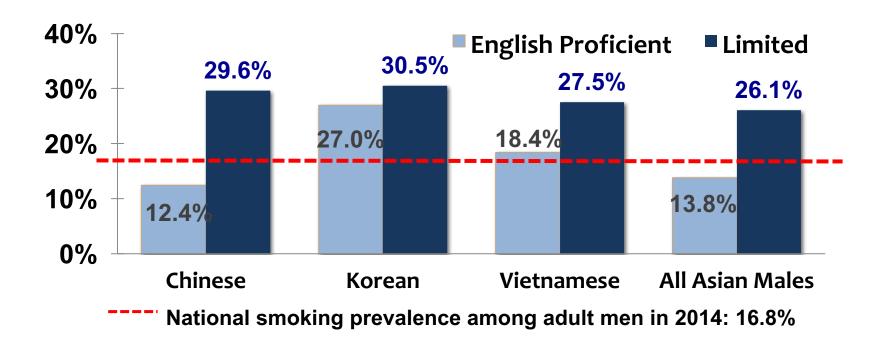


Background

- Asian Americans are the fastest growing minority group in the United States
- Smoking prevalence remains disproportionately high among some Asian American groups, such as Korean and Vietnamese men



Tobacco use prevalence remains high in Asian American men, especially those with limited English proficiency



Sources: 2012-15 California Health Interview Survey; 2014 National Health Interview Survey

Background (continued)

- Primary care settings provide a unique opportunity to address tobacco use among Asian Americans
- Fewer Asian American smokers, when compared to the general population, reported receiving physicians' advice to quit (41% Asians vs 51% general population; 2011-13NHIS)
- Referrals from healthcare providers to the Asian-language Quitline services were significantly lower among Chinese (4.1%), Korean (1.6%) and Vietnamese (8.4%) when compared to the English-service referrals among Asians (17%) and Whites (28%)

Feasibility Pilot Trial



- With a community-based participatory research approach, we created the iMD that delivers tailored inlanguage video messages via a mobile tablet to Korean and Vietnamese male smokers right before their clinic visit with a provider
- Conducted a single-group feasibility trial to test user experience and evaluate potential impacts of iMD on patient-provider discussion and smoking cessation outcomes

Interactive Mobile Doctor (iMD)



iMD delivers the "5 As" to patients right before seeing their physicians





ADVISE patient to quit



ASSIST via



tailored videos





ARRANGE follow-up with a bilingual printout



처방전이 필요없는 약물

iMD Bilingual Printout (English-Korean)

Patient's	name	ΛD	/Label
i aticiit s	I I di I I C	μ	Laber

Date / 날짜: 2014-07-23 15:19:31

Doctor: Please check the appropriate box below to indicate your recommendations for this patient

My Doctor Recommends that I Should / 의사 선생님의 추천:
[] Stop smoking 금연
[] Call the toll-free California Smokers Helpline <i>한인금연센터문의</i> 1-800-778-8440 (Korean / 한국어) 1-800-662-8887 (English / 한국어)
[] Talk to AHS staff for smoking cessation counseling 동양인건강진료소직원과의금연 상담 .
[] Use NRT / 니코틴대체요법사용: [] patch / 니코틴 패치 [] gum / 니코틴 껌 [] lozenge / 니코틴 정제 (니코틴 캔디) [] other RXs / 다른 처방:
[] Schedule the next visit with my doctor in weeks 주 후에 의사와의 다음 진료 예약
[] Other RXs / 다른 추천 방법:

My Smoking History:

Number of cigarettes smoked daily: 7 Number of years smoked: More than 20 years

My Plan:

Not thinking about quitting

My Concerns:

I have too much stress to quit.

나의 흡연 역사:

하루에피우는 담배 개수: 7 흡연기간 (년): 20년 이상

나의 계획:

금연을 할 생각이 없다

나의 우려:

그 구구 금연을 하기에는 스트레스가 너무 많 다

iMD Bilingual Printout (EnglishVietnamese)

Patient's name/ID/Label	Date / Ngày: 2014-03-21 13:00:42

Doctor: Please check the appropriate box below to indicate your recommendations for this patient.

My Doctor Recommends that I Should / Bác Sĩ Của Tôi Khuyên Tôi Nên:
[] Stop smoking Bỏ hút thuốc lá
[] Call the toll-free California Smokers Helpline <i>Gọi điện thoại miễn phí đến Trung Tâm Cai Thuốc Lá</i> 1-800-778-8440 (Vietnamese / Tiếng Việt) 1-800-662-8887 (English / Tiếng Anh)
[] Talk to AHS staff for smoking cessation counseling Nói chuyện với nhân viên của AHS để được cố vấn cai thuốc lá.
[] Use NRT / Dùng thuốc giúp cai hút thuốc: [] patch / miếng dán nicotine [] gum / kẹo gum nicotine [] lozenge / kẹo ngậm nicotine [] other RXs / thuốc có toa:
[] Schedule the next visit with my doctor inweeks Làm hẹn gặp lại bác sĩ trong tuần.
[] Other / Điều khác:

My Smoking History:

Number of cigarettes smoked daily: 4 Number of years smoked: More than 20 years

My Plan:

Thinking about quitting

My Concerns:

I tried but can't quit.

Tình Trạng Hút Thuốc Của Tôi:

Số điếu thuốc hút hàng ngày: 4 Số năm đã hút thuốc: Hơn 20 năm

Kế Hoạch Cai Thuốc Của Tôi:

Đang nghĩ đến việc cai thuốc.

Điều Quan Tâm Của Tôi:

Tổi đã thử bỏ rồi nhưng không thể cai được.

Feasibility Pilot -- Methods





Participants:

- Korean- and Vietnamese-speaking patients
- Current smokers identified on medical records + smoked daily
- recruited by telephone prior to the scheduled primary care visit or in-person at their clinic visit
- Data collection: pre-intervention, immediately after clinic visit, 3-month

Primary outcomes:

- patient-provider discussion on tobacco (self-report and EHR);
- self-reported quit attempts and 7-day smoking abstinence at 3 months post iMD visit

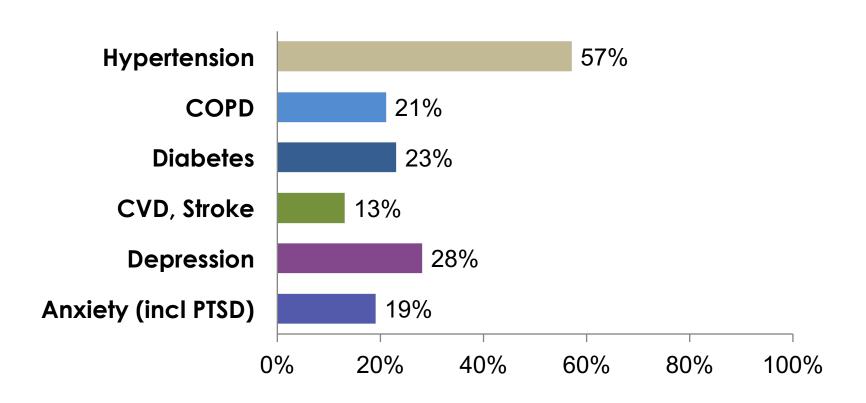
Participant Characteristics (N=47)

Demographics

Age	M(SD)	56.4 (9.9); range: 28-71	years old
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Lived in the U.S. < 15 years	34%
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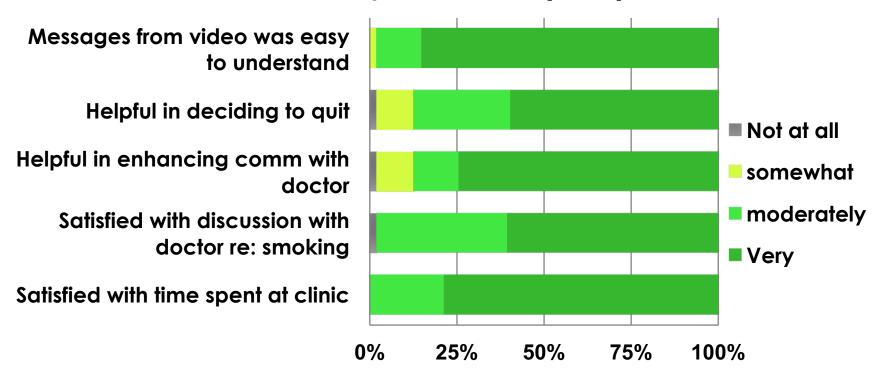
Participant Characteristics (N=47)



Results User Experience

Duration of iMD session (mean): 12.9 mins (range: 10-25 mins)

How did you like iMD? (N=47)



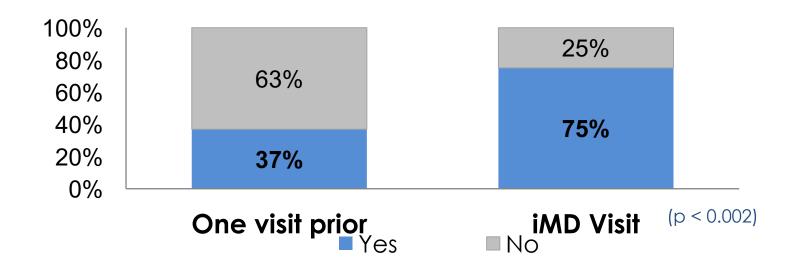
Results

Patient-Provider Discussion on Tobacco Use

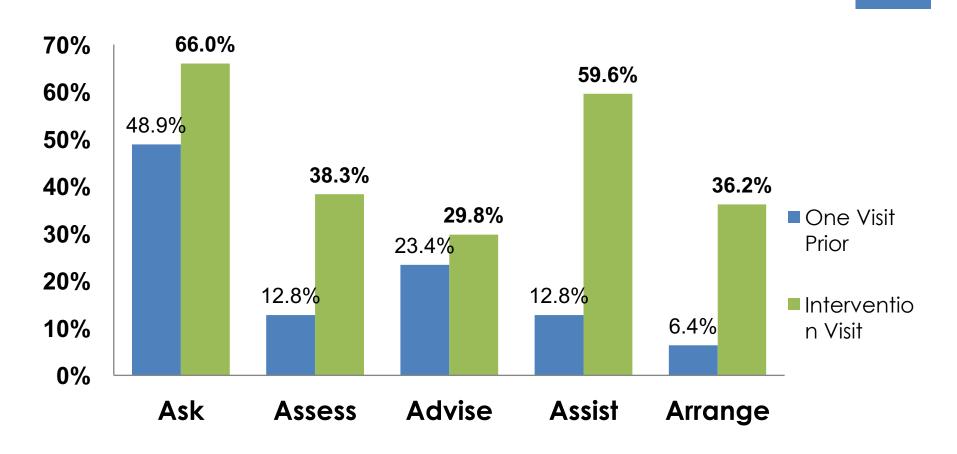
Participant self-report

100%

■ From EHR (documented "Advise," "Assess," "Assist," or "Arrange" with participant re: smoking)



Delivery of 5As from EHR Progress Notes at One Visit Prior and Intervention Visit (N=47)



Examples of EHR Progress Notes at One Visit Prior and Intervention Visit

One Visit Prior

No smoking-related notes



iMD Intervention Visit

TB use: Refer to Korean smoking cessation project, contemplative. Think about stopping smoking. Try to reduce number of cpd. Call 800-NO-BUTTS if ready to quit.

Examples of EHR Progress Notes at One Visit Prior and Intervention Visit

One Visit Prior

• 61 yo Mc HTN, ^lipid, tobacco abuse



iMD Intervention Visit

1/2ppd. interested in nicotine patch. rx
 21mg patch x6 weeks.
 f/u in 1mo - will rx
 14mg patch x 2 weeks, then 7mg patch x 2 weeks

Examples of EHR Progress Notes at One Visit Prior and Intervention Visit

One Visit Prior

Tobacco 10 cig/day; Tobacco use disorder (305.1); encouraged cessation, esp given heart disease



iMD Intervention Visit

Tobacco abuse
 (305.1). Provider Plan
 12 cig/day. action. rx
 wellbuitrin 150mg daily
 x 3 days, then 150mg
 bid. stop smoking in
 1week after starts
 wellbutrin. f/u in 1mo.

Results

3-Month Smoking Cessation Outcomes

24-hour quit attempt: 51%

7-day abstinence: 19% (intention-to-treat); 21% (observed)

30-day abstinence: 10% (intention-to-treat); 12% (observed)

Conclusions and Next Step



- iMD is feasible in a primary care setting
- iMD was highly acceptable to Korean and Vietnamese smoking patients including those who were unmotivated to quit smoking
- iMD is promising in increasing patient-provider discussion on tobacco use among Asian American immigrants
- Team is currently conducting a RCT with iMD expansion to 4 languages (Chinese, Korean, Vietnamese and English)

Acknowledgment

- Ky Vo, Alisha Tran, Jinyoung Chun, Terrence Park, Susan Yoon, Jen Lee
- AHS Patient Leadership Council members
- Drs. Mychi Nguyen, Suzy Lim, Ricky Choi, and Arthur Chen
- ■Tobacco-Related Disease Research Program Grants 21BT-0056, 24AT-1300 & 24AT-1301