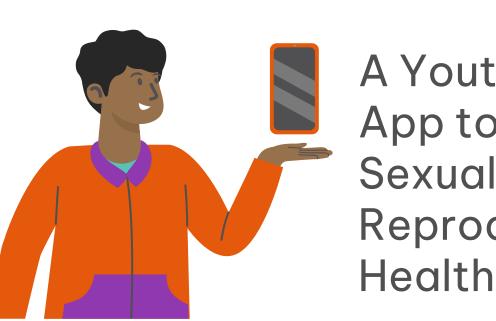


Health-E You/Salud iTuTM



A Youth-Centered App to Support Sexual & Reproductive

We have nothing to disclose.

The views expressed in this presentation are those of the speakers and may not reflect the official policy of Moses/Weitzman Health System.



Meet our Team





Kathleen Tebb, PhD

University of California, San Francisco



Maryjane Puffer, BSN, MPA

Los Angeles Trust for Children's Health



Morayo "Mo" Akande, PhD, MPH

Johns Hopkins University



Ketan Tamirisa

Youth Advisory Board

Member & Sophomore at

Washington University in

St. Louis, Missouri



Ice Melter

Poll:

Are you aware of any SRH apps?

What if any SRH apps have you used?







What is Health-E You / Salud i TuTM?



Health-E You /Salud iTu

- Health-E You is an interactive, individually tailored, mobile health application (app) to support unmet sexual & reproductive health (SRH) & care needs for youth before their visit
- It preps youth & clinician for visit
- It shares confidential patient summary to clinician to increase visit efficiency & quality



Health-E You/Salud iTuTM

Developed in **partnership** with adolescents, providers, and CBOs

- Advisory Boards (Youth & Community)
- Focus groups
- Interviews
- Usability Testing
- Pilot Testing (N & S CA)
- Efficacy testing (CRCT)
- D&I: Sustainability









Early Planning Efforts that Enhance Scalability & Sustainability

- Developing an intervention that is acceptable, feasible and meets the needs of target audience (clinicians and patients) is a critical first step in planning for scaling and sustainability
- Key partnerships are essential:
 - The L.A. Trust: Youth & Community Advisory Boards
 - A collaborative process of research together defined goals,
 - developed intervention & evaluation
 - Involves all partners & recognizes indiv'l strengths &
 - validates local knowledge



Celebrate Success

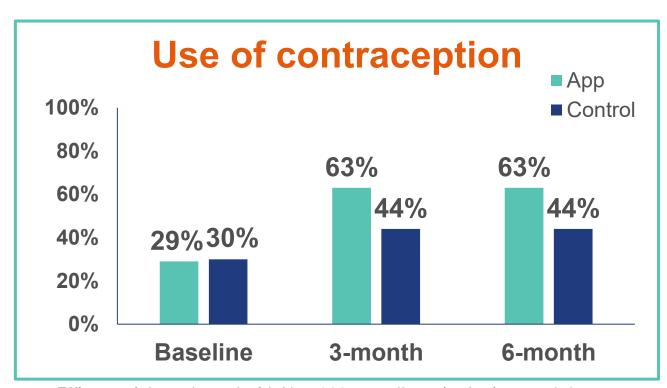




Evaluation Results for Female Youth

In a randomized controlled trial with female youth in SBHCS in LA County: Health-E You resulted in increased contraception knowledge, selfefficacy, & use

Tebb KP et al. Evaluating an mHealth Application, Health-E You/ Salud iTu. *Contraception*. 2021;104(3):219-326.



Efficacy trial conducted with N=1,360 sexually active Latina youth (mean age=16.4) at 18 school-based health clinics



A Mobile Health Contraception Decision Support Intervention for Latina Adolescents: Implementation Evaluation for Use in School-Based Health Centers

Kathleen P Tebb¹; Sang Leng Trieu²; Rosario Rico²; Robert Renteria²; Felicia Rodriguez 1 : Marviane Puffer 2 :

Article

Authors

Cited by (28)

Tweetations (1)

Metrics

Kathleen P Tebb 1, PhD: Sang Leng Trieu 2, DrPH; Rosario Rico 2, MPH; Robert Renteria 2; Felicia Rodriguez 1, MA; Marviane Puffer 2, BSN, MPA

University of California, San Francisco, Department of Pediatrics, San Francisco, CA, United States

² The Los Angeles Trust for Children's Health, Los Angeles, California, CA, United States

Sexual health

Protocol

Assessing the effectiveness of a patient-centred computer-based clinic intervention. Health-E You/Salud iTu. to reduce health disparities in unintended pregnancies among Hispanic adolescents: study protocol for a cluster randomised control trial 8

Kathleen P. Tebb 1, Felicia Rodriguez 1, Lance M. Pollack 2, Sang Leng Trieu 3, Loris Hwang 4, Maryjane Puffer 3, Sally

Adams 1, Elizabeth M. Ozer 1, Claire D. Brindis 5

Correspondence to Dr. Kathleen P. Tebb; kathleen.tebb@ucsf.edu



► World J Methodol. 2023 Sep 20;13(4):210-222. doi: 10.5662/wjm.v13.i4.210

Utilization of online systems to promote youth participation in research: A methodological study

Marie Salem 1, Lance Pollack 2, Alex Zepeda 3, Kathleen P Tebb 4



Contents lists available at ScienceDirect

Contraception

ELSEVIER

journal homepage: www.elsevier.com/locate/contraception

Original Research Article

Improving contraceptive use among Latina adolescents: A cluster-randomized controlled trial evaluating an mHealth application, Health-E You/Salud iTu

Kathleen P. Tebba,*, Felicia Rodrigueza, Lance M. Pollackf, Sally Adamsa, Rosario Ricob, Robert Renteria^b, Sang Leng Trieu^b, Loris Hwang^c, Claire D. Brindis^d, Elizabeth Ozer^e, Marviane Puffer



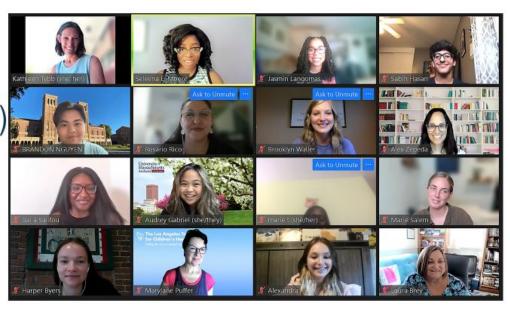
A Pilot Study of Integrated Digital Tools at a School-Based Health Center Using the RE-AIM Framework

by Steven Vu 1,* ≥ 0, Alex Zepeda 2 ≥, Tai Metzger 3 ≥ 0 and Kathleen P. Tebb 4 ≥ 0

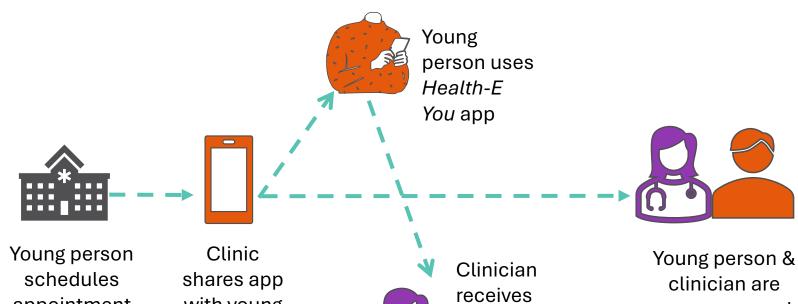
Adaptations to Expand Nationally

Flexibility

- Utilize a flexible & iterative process (repeated cycles of: research, reflection, & action)
- Adaptations
 - -- App adaptations
 - -- COVID adaptations



How Health-E You Works:



appointment with clinic

with young person

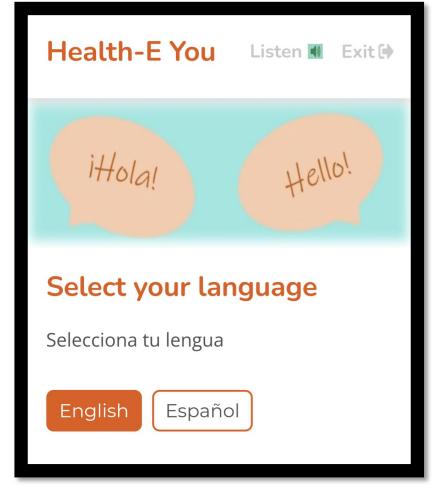


summary of young person's sexual health needs / priorities from app

more prepared to discuss SRH & get related care at appointment

Health-E You/Salud iTuTM

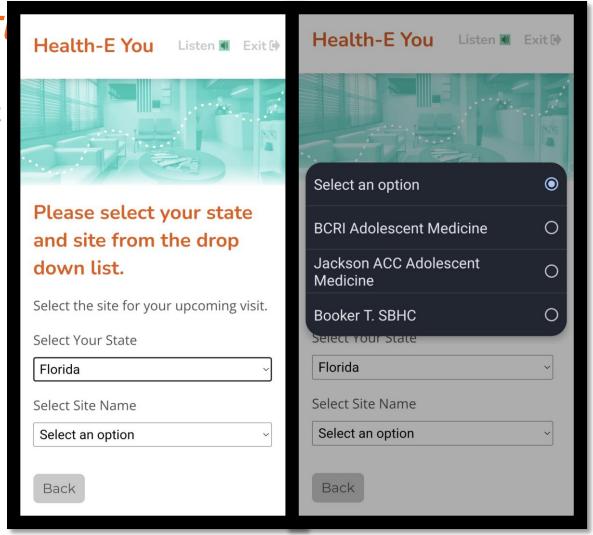
- Available in English and Spanish
- Audio & visual features to support ease of use/literacy



Health-E You/Salud iT

Customized for youth to select where they are at (directs where the patient summary is sent).

- Select State
- Select Site Name



Health-E You/Salud iTu[™] 2-Pathways

<u>Decision Support</u> MythBusters "game" with feedback

Lifestyle & attitude questions to guide contraceptive choice

Potential contraindications (discuss

Not at Risk of Pregnancy (females or males)

Select from menu of SRH topics (contraception, STI/condoms, Prep & Pep, E.C., etc.)

Confidential e-mail sent to clinicians with patient summary from app

Contraception Support Pathway

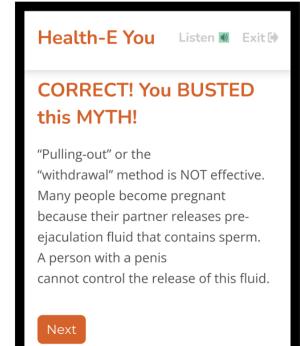
Sex at Birth Female Ever Had Sex

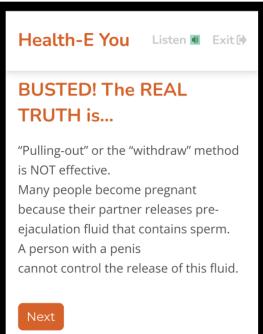
7- Myth Busters

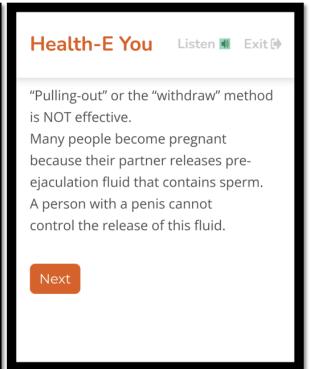
- Birth control pills reduce the risk of STDs.
- 2. Pulling out (photo)
- 3. Weight gain is a common side effect of most birth control methods, especially the IUD.
- 4. Birth control pills begin working as soon as you start taking them.
- 5. Decreased menstrual bleeding from IUDs does not cause health problems later on.
- 6. Long-acting contraception, like the IUD and implant, can make it more difficult to become pregnant in the future
- 7. The IUD is easy for a clinician to insert & remove.



Myth Busters – Tailored feedback







Questions to support contraceptive choice

- Method efficacy
- 2. Method safety/side effects
- 3. Weight gain
- 4. Hormones
- Desire for decreased pain/cramping
- 6. Desire for less bleeding and period regularity
- 7. Ease of getting to a clinic
- 8. Method confidentiality
- 9. Hx of contraceptive use and method satisfaction

Also asks about contraindications (flag for clinician to review further)

Health-E You





Now, let's help you decide which birth control method is best for you!

Birth control gives you the ability to decide if and when you want to have children.

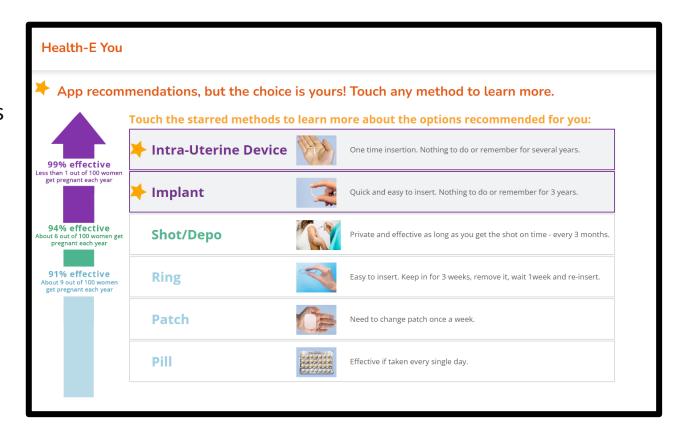
All of your answers are completely confidential. It is designed to help find the best method for you -- so you can have more control of your future!

Back

Nex

Health-E You/Salud iTu™ Contraceptive Pathway

- Stars App recommendations
- Reproductive justice lens emphasizes choice
- Opportunity to learn about any method(s)



Intra-Uterine Device (IUD)



What is an IUD? It is a small t-shaped piece of plastic that makes it hard for sperm to attach to the egg. A trained provider places it in your uterus and you don't have to do anything for several years.

Why is the IUD a TOP choice for you:

- + It is one of the most effective contraceptives.
- + It is safe and has few side effects.
- + No one can tell you are using it.
- + Can be removed at any time and you can get pregnant right away
- + DOES NOT cause abortions or infections

Like most contraceptives, the IUD does not protect you from STDs or HIV. Be sure to use a condom every time you have sex.

There are two types of IUDs hormonal or non-hormonal.

Learn more

See other contraceptive options

Continue



Nurse Practitioner Le Flore Jacobs facts about IUDs



Krissy, 17, on the IUD I use the IUD and love it!

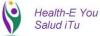
Confidential Patient Report

App data stored in secure UCSF Salesforce system

User provides partial name and/or cell phone to share with clinician

Summary data automatically generated

Sent via secure e-mail to designated clinic staff/ clinician e-mail



Confidential App Use Report

Harbor Wellness Center

Patient Info

Partial name Kathleen

Katnieen

Cell Phone 111-123-3456

Gender

Female

Reason for Visit Well visit / checkup / physical

Patient Hx

Ever Had Sex

Yes Genital

Current Contraceptive Method (if any)

lone

Method/s App Recommended

IUD Implant

Method/s Patient Interested in Using

Shot

Potential Contraindications (to discuss)

14011

Topics Explored in App

Questions? Contact: Kathleen Tebb, PhD University of CA, San Francisco: kathleen.tebb@ucsf.edu Funded by the Patient Centered Outcomes Research Institute (PCORI): DI-2020C2-20372

DEMO TIME!

Here's a link to the app. You can use it on your Smartphone, PC, or tablet computer

https://health-eyou.ucsf.edu/

- Choose "TEST" From the select your state and site drop-down list to indicate you are testing the App.
- Select Female sex at birth, aged 12-19 and have had penile/vaginal sex to get routed to the contraceptive decision support pathway.

Health-E You is available FOR FREE!

• Contact <u>Kathleen.Tebb@Ucsf.edu</u> to schedule free orientation, training, and to set up linkages to share information with the clinician

Health-E You/ Salud iTuTM Team

UCSF

Kathleen Tebb PhD, PI

Claire Brindis DrPH, co-I

Elizabeth Ozer PhD, co-I

Lance Pollack PhD, Statistician

Felicia Rodriguez MA, Marie Salem, MPH

Veronika Mesheriakova MD

Brittany Badal MD, Chelsea Nelson MD

Michelle Odette MD

Lela Bacharach MD

UCLA: Loris Hwang, MD

L.A. Trust for Children's Health

Maryjane Puffer BSN, MPA

Alex Zepeda MS, Rosario Rico MPH,

Robert Renteria, Kelly Shieh, Esther Ypez

Rosina Franco MD

National School-Based Health Alliance

Robert Boyd MCRP

Laura Brey MS , Seleena Moore MPH

Jacquelyn Christensen PhD

Katherine Cushing MPH, Harper Byers BA

National Youth Advisory Board Members

CA School-Base Health Alliance

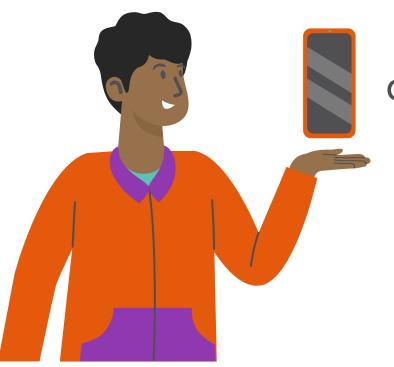
Amy Ranger MPH

SBHCs Clinicians & Staff across the country

Funding support: Patient Centered Outcomes Research Institute (PCORI®) Research Award (AD-1502-27481)

PCORI® Dissemination & Implementation Award (DI 2020C2-20372)

UCSF Hellman Fellowship (2012); Mt. Zion Research Fund (A115613); UCSF Research Evaluation and Allocation Committee



Need for Health-E You to be adapted for males and gender expansive youth with individually tailored and interactive content



Preventive care guidance recommend that clinicians deliver sexual & reproductive health (SRH) care to male adolescents (aged 12 & older), yet, SRH care receipt for this population is poor.



This population also experiences high rates of STIs & HIV & unintended partner pregnancy exacerbated by low levels of SRH knowledge & method use behaviors.



Interventions as part of clinic visits can be helpful SRH promotion tools for adolescents, yet, few include the diversity of males who present for care.



Use of technology as part of clinical interventions can make it easier to consistently provide evidence-based SRH by tailoring to the needs of diverse adolescents, including males, in multiple languages.

Adapting Health-E You for males and gender expansive youth



Study Aims

- Use Youth-Centered Health Design (YCHD) to develop the app design and content
- Test the acceptability, usability, and satisfaction of the final Health-E You app using YCHD
- Efficacy trial of the app at clinics across the U.S.

Study Goals

 Improve sexually active male adolescent patients' knowledge, self-efficacy, beliefs, and behaviors related to SRH care after the visit and method use at 2-month followup.







Youth-Centered Health Design (YCHD)



- What is it? Partnering and engaging with youth in design process of a program/intervention that is meant for them.
- Why? YCHD gives youth a voice in the decisions that will affect their health ensuring more meaningful and impactful outcomes for the programs/interventions.



Youth Design Team Advisory Groups (DTAGs)





Total of seven key youth advisors:

- ✓ Diverse backgrounds
- ✓ Diverse genders
- ✓ Diverse ages



What they do:

- ✓ Brainstorm ideas
- Give feedback and testing prototypes
- ✓ Learn research skills











The mind of everybody doesn't work the same way, not with the same speed. So if possible, it is better to provide both text and videos in the sense that whoever can digest the information just by reading text, fine. If you need to go through video before you understand what everything mean, it's still okay. So if you ask me, I think it's good if you made both options possible...text and videos.



I think that cartoons would be easier to engage with, especially when it's an embarrassing topic. It's easier to stomach when it's not a picture of real life. At least that's what I think might be the case, but I don't know if that's how most people work.

It would just feel more professional with the images of real people. The cartoon art is more casual-leaning. Yeah. The real people would feel more professional.



I also think sexual education is starting to decrease. Many people don't realize the consequences of unprotected sex that much.

Another thing I would like to add is the fact that sometimes, young people can get hesitant about getting condoms because of lack of information about condoms in general. And even those who have the right information, condoms is not something you just go into the store to order for candy. So sometimes, most times, young people can be quite shy about getting them. The lucky ones are maybe some who get them for free in school. But going to get it in a store can be quite embarrassing.

Honestly, I didn't know you couldn't use your teeth to open the package. In the beginning, I didn't know which way to wear it. So that's kind of real helpful for somebody that never had sex before, needs to know how to use the condom, and to see it demonstrated it very well.



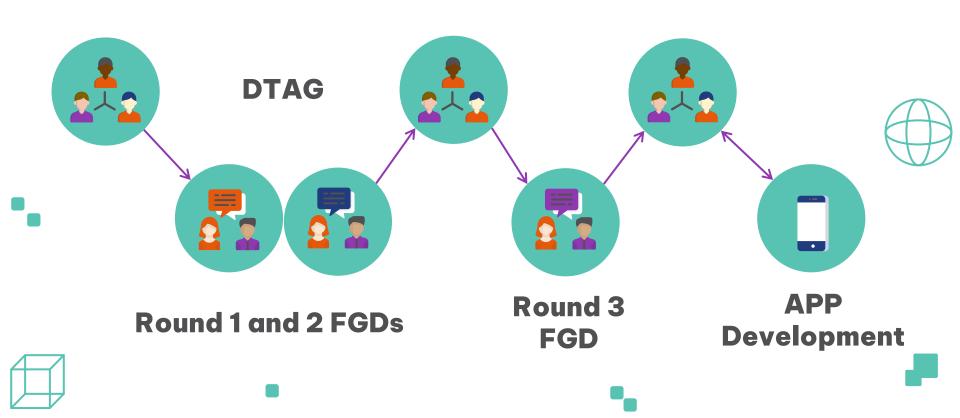
What did the engagement process mean to you?

What opportunities have emerged for you?

Any challenges?



Youth Engagement Strategy









Social Media

JH School of Medicine Centro Sol



Community Partners

Youth serving community partners in Baltimore, MD advertised the study.



Youth Referrals

Youth received \$5 per eligible person they referred.



Youth Advisory Boards

Reached out to various YABs across the U.S. to recruit from their members.

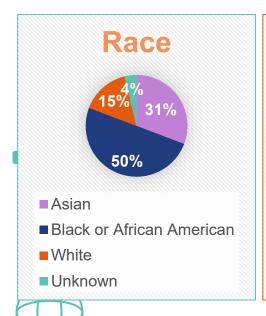




Focus Group Demographics

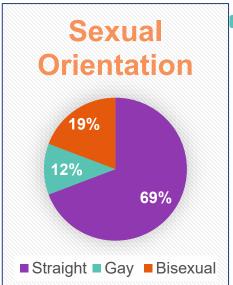


Total = 26 youth participants assigned male at birth

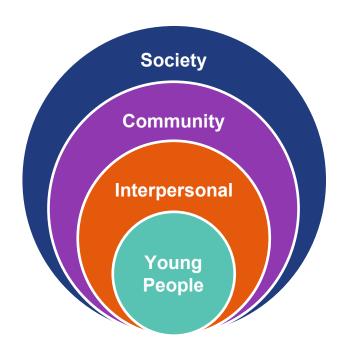








Why engage Youth-Serving Professionals?



Understanding clinicians' needs helps us design a product that can be implemented and scaled





Clinician Engagement: Interviews



Profile:

- √ 12 Individual Interviews
- ✓ 33% MDs, 67% NPs
- ✓ From 6 different states
- √ Varying clinical focuses and clinical settings

Interviews covered topics such as:

- ✓ Their typical SRH care practices
- ✓ Barriers / facilitators to SRH care
- ✓ Perceived content needs for adolescents
- ✓ App's clinician report



Key Findings from Youth

- App use would increase confidence and empower them to have conversations about SRH with partners/ clinicians
- Features that can help youth take action:
 - widgets to help them locate STI screening
 - ways to submit questions they still need answered
 - activities to help have conversations with a partner
- App design should be engaging and straightforward
 - Use vibrant colors and fun images
 - Content should be clear and direct avoid jargon





Clinician vs. Youth Feedback

Topic Area	Youth Participants	Clinician Participants
Priority SRH topics for young people	Preventing pregnancyPreventing STIs/HIVHealthy Relationships	 Sexual pleasure Preventing pregnancy Preventing STIs/HIV Healthy Relationships
Barriers to discussing SRH with clinicians	DiscomfortPrivacy/confidentiality concerns	Limited timeCompeting health needsTraining
Helpful features	Condom use quizSTI/HIV testing finderCondom finder	Open-ended question box for young peopleClinician summary







Final App





Acknowledgements Health-E You for Males

Study Team

- Shelby Rohlff (MSPH Student)
- Kathleen Tebb, PhD
- Arik V. Marcell, MD, MPH
- Youth Design Team Advisory Group (DTAG)
- Clinician Design Team Advisory Group

Partners

- AMAZE
- Centro Sol Youth Advisory Board
- Johns Hopkins Adolescent Medicine Youth Advisory Board
- Center for Adolescent Health Youth Advisory Board
- UChoose Baltimore Youth Advisory Council
- HeartSmiles
- MissionFit Baltimore
- Youth Advisory Council of Maricopa County
- Getting to Zero Young Adult Advisory Board

Funding Support

- -Patient-Centered Outcomes Research Institute® (PCORI®) Dissemination & Implementation Award (DI 2020C2-20372).
- -Eunice Kennedy Shriver National Institute for Child Health and Human Development of the National Institutes of Health (R01HD109141, PI: Arik V. Marcell).
- -The UCSF Research Evaluation and Allocation Committee (REAC) with funding from the Springer Fund and Wikman Fund (2019) provided Drs. Tebb and Marcell with resources to support preliminary work for, "Health-E Males: The Development and Pilot Testing of an mHealth App to Promote Patient-Centered Sexual Health Information and Services for Adolescent Boys"



Thank YOU!

PLEASE REACH OUT!

Kathleen.Tebb@ucsf.edu
Healtheyouapp@jh.edu
Sosiosm1@jh.edu

