

for Tobacco & Cancer Control

from NATIONAL COUNCIL FOR MENTAL WELLBEING

mHealth Apps for Tobacco Cessation and Guidance for Evaluation and Implementation

August 15th, 2024

Welcome from The National Behavioral Health Network Team!



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Project Director



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Project Coordinator



Housekeeping

This session is being recorded and will be available on www.BHTheChange.org after the webinar.

For audio access, participants can either dial into the conference line or listen through your computer speakers.

You can ask questions by typing them into the Q&A box.

Closed captioning can be accessed by turning on the closed captioning feature on the zoom dashboard.



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A Note on Language & Terminology

- Mental wellbeing: Thriving regardless of a mental health or substance use challenge.
- Commercial tobacco use/tobacco use: The use of commercial tobacco and nicotine products (including electronic nicotine devices, otherwise known as ENDs).*
- *All references to smoking and tobacco use is referring to commercial tobacco and not the sacred and traditional use of tobacco by some American Indian and Alaskan Native communities.







Agenda

- ✓ Housekeeping
- ✓ Introduction to NBHN
- ✓ Didactic Presentation
- ✓ Q & A
- ✓ Wrap-up





National Behavioral Health Network for Tobacco & Cancer Control

Jointly funded by CDC's Office on Smoking & Health & Division of Cancer Prevention & Control

Provides resources and tools to help organizations reduce tobacco use and cancer among individuals experiencing mental health and substance use challenged

1 of 9 CDC National Networks dedicated to eliminating cancer and tobacco disparities in priority populations

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Communities of Practice





Smoking Cessation Leadership Center



University of California San Francisco



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Networks Driving Action: A National Network Approach to Promoting Tobacco and Cancer-Related Health Equity in Special Populations









- A consortium of nine national networks sponsored by the CDC's Office on Smoking and Health and Division of Cancer Prevention and Control.
- Our partnership provides leadership on and promotion of evidence-based approaches for preventing commercial tobacco use and cancer for priority populations on a national, state, tribal and territorial level.
- https://www.cdc.gov/tobacco/php/tobacco-controlprograms/coop-agreement.html











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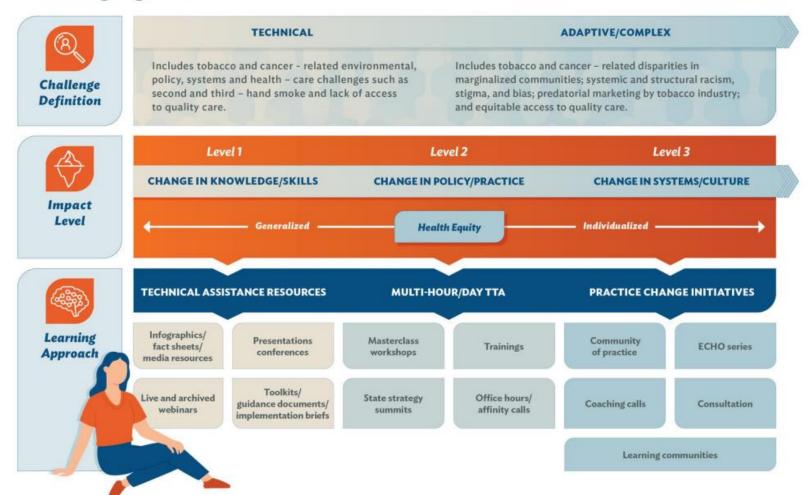


National Behavioral Health Network for Tobacco & Cancer Control



MENTAL WELLBEING

Learning Agenda





National Behavioral Health Network

for Tobacco & Cancer Control

from NATIONAL COUNCIL FOR MENTAL WELLBEING

NBHN's learning agenda is designed to advance health equity by...



Reducing tobacco and cancerrelated disparities among individuals with mental health and substance use challenges.



Improving the availability, accessibility and effectiveness for cessation and counseling services.



Addressing social and political that influence tobacco and cancer-related disparities.



Implementing trauma-informed resilience oriented prevention and cessation messaging.



Strengthening, supporting and mobilizing communities and partnerships in tobacco control, cancer control and behavioral health.



Building a diverse and skilled tobacco control, cancer control and behavioral health workforce.



Building, championing, and implementing tobacco-free policies, plans and laws.



Promoting the improvement, access, and utilization of tobacco, cancer and behavioral health data.

Guest Speakers



Teresa Mescher, MPH
She/her

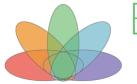
Research Associate Behavioral Health and Wellness Program University of Colorado Anschutz



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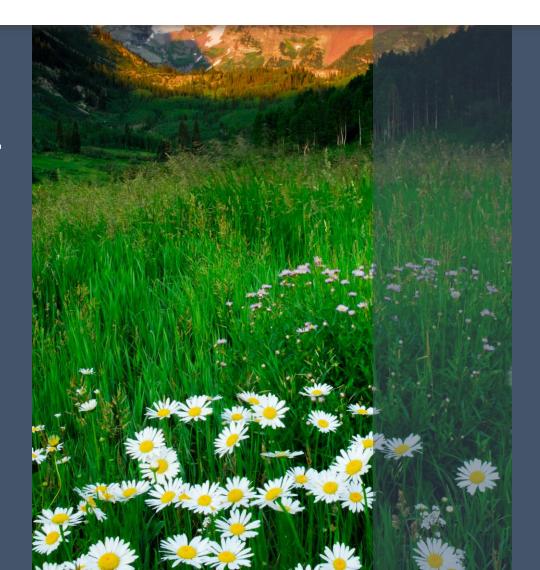


Behavioral Health & Wellness Program

mHealth Apps for Tobacco Cessation and Guidance for Evaluation and Implementation

Teresa Mescher, MPH Jim Pavlik, MA, CTTP





Objectives

Understand

frameworks, scales, and a searchable database used to evaluate mHealth apps

Recall

guidelines for streamlined mHealth implementation in health care settings

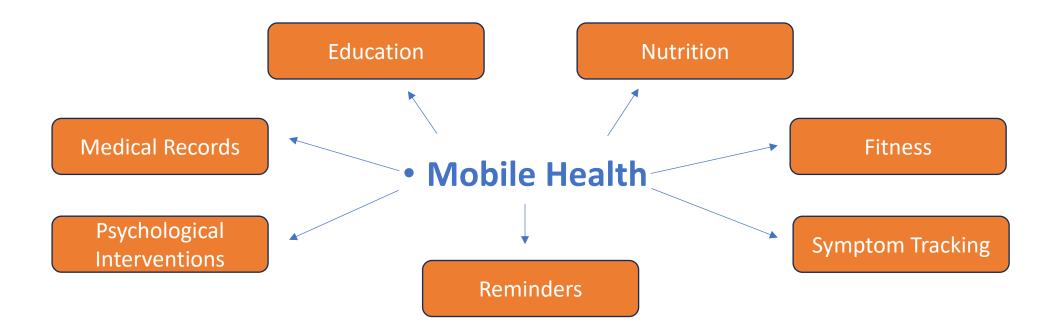
Apply

the recommended tools and guidelines to evaluate popular tobacco cessation apps prior to recommendation or implementation

What is mHealth?



What is mHealth?

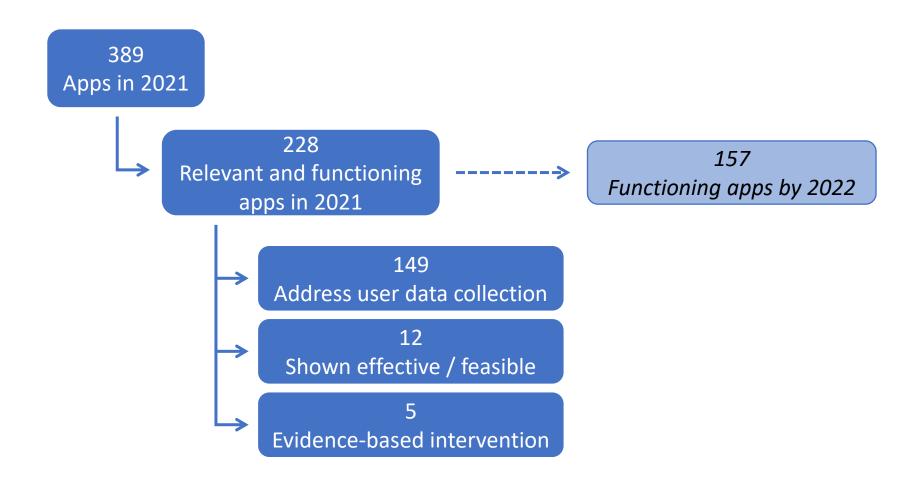


Why is Evaluation Important?

- Ever-changing availability on app stores
- Provider knowledge is often lacking
- Efficacy studies are rare
- Built by non-health/medical specialists
- Not FDA-regulated
 - Misinformation
 - Ineffectiveness
 - Privacy and security concerns



mHealth for Tobacco Cessation



mHealth Evaluation Frameworks & Scales

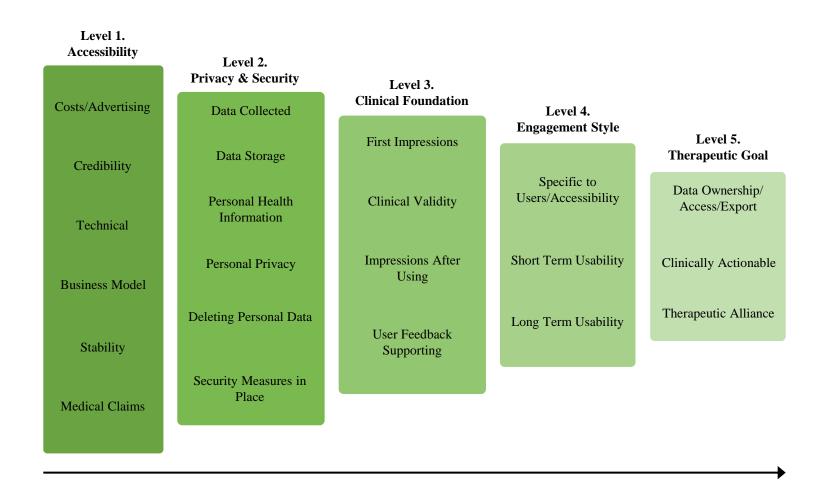
What to Look for in an Evaluation Framework or Scale

- What metrics should the framework or scale assess?
 - Usability/accessibility, privacy/security, quality, effectiveness
- Does the framework or scale assess the type of technology of interest?
 - mHealth specific
- Is the framework or scale evidence-informed and tested?
 - Based on scientific literature with peer reviewed evidence base

How were Frameworks & Scales Chosen?

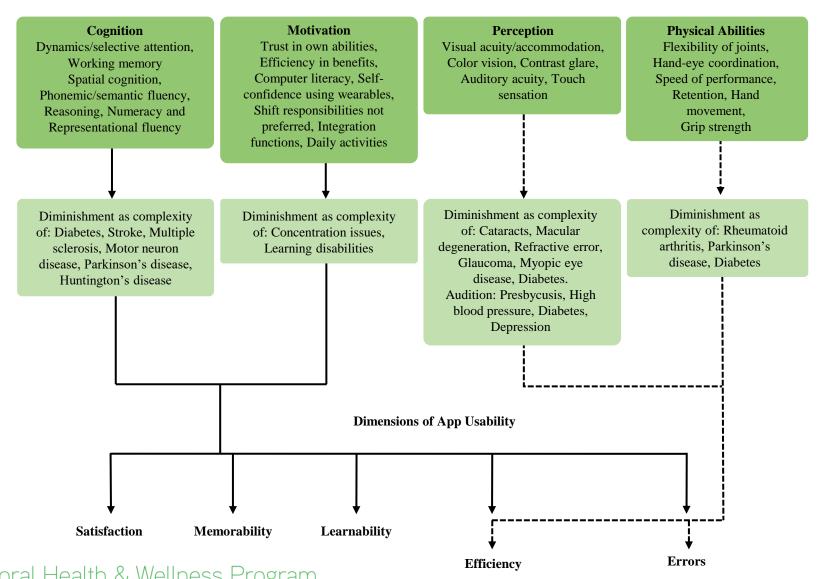
- Accessible online
- Available in English
- mHealth-specific
- Evidence-based and -informed
 - Peer reviewed
 - Statistical validation (scales)
- Assess privacy and security

American Psychiatric Association App Evaluation Model (APA)



mHealth for Older Users (MOLD-US)

Barriers Influencing Usability for Older Adults



Adapted Mobile App Rating Scale (A-MARS)

- Apps and e-tools
- 28-items assessed over eight domains
- Requires training to implement
 - A digital navigator focused on evaluation is recommended
- Does NOT assess data privacy or security

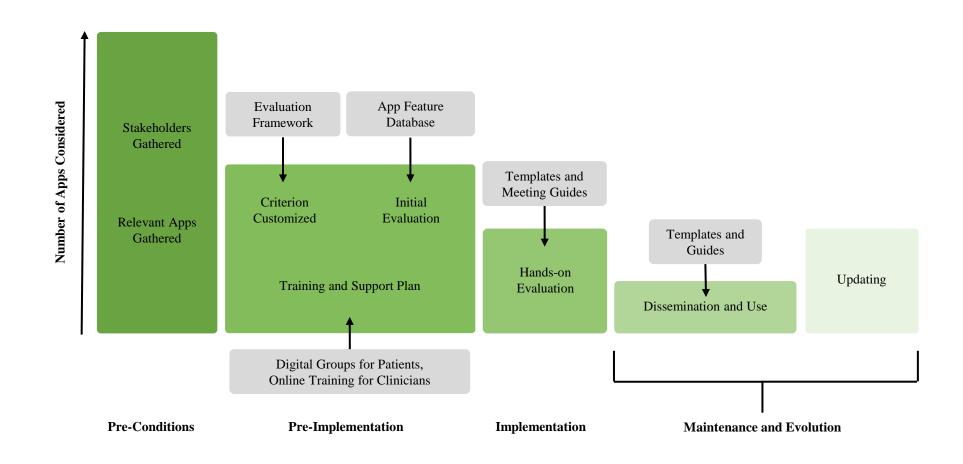
THESIS

Transparency	Health Content	Excellent Technical Content	Security/Privacy	Issues of Usability	Subjective Rating
Cost of app	Appropriate measurement	Software performance/	Protection against theft/viruses	Installation and setup	
	Interpretation of data	stability	Data sharing	Quality of functionality	App recommendation
Consent	Quality of information	Interoperability	Maintenance cycles	Quality of aesthetics	
	Potential for harm	Bandwidth to run	Anonymization	Customization	
	Literacy level		Optimal authentication	Usability with low literacy	Overall star rating
Accuracy of description	Presentation of information	Application size	Notification of breaches	Availability in multiple languages	

App Behavior Change Scale (ABACUS)

- Assesses potential for behavior change
- 21 items across four domains
- Widely used and innovative
- Potential does may not translate to actual change
- Does NOT measure other important aspects
 - Usability, privacy/security, quality, etc.

mHealth Implementation



mHealth Index & Navigation Database

(MIND)

App Origin and Functionality

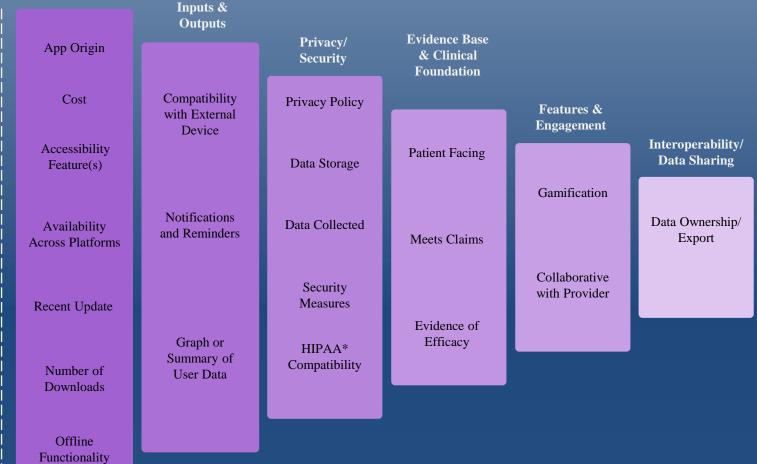
Ease of Use/Usability

Ease of Use

Visual Appeal

Age Appropriateness

Layout & Graphics





MIND Framework

Covered by MIND

Usability Considerations Not

mHealth Evaluation Best Practices

- 1. Evaluate mHealth apps before recommending to people you serve
- 2. Framework(s) and/or scale(s) must consider data security, safety, and effectiveness
- 3. Framework(s) should consider population-specific needs when possible
- 4. Review mHealth continually as the landscape evolves
- 5. The MIND database may be a helpful place to start your implementation process
- 6. It is the provider/organization's responsibility to determine what apps are appropriate for recommendation





Sample Implementation: Smoking Cessation Apps for Older Adults

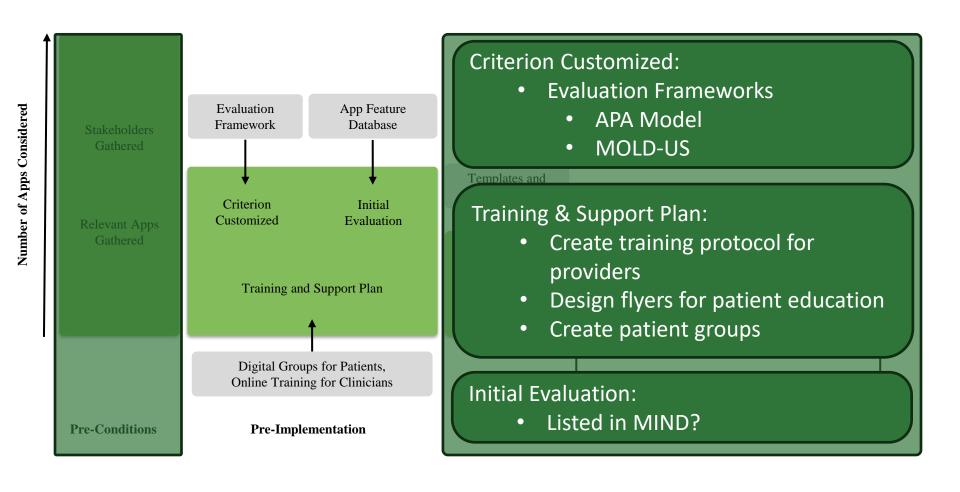


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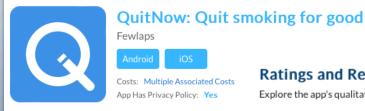
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Sample Implementation: Smoking Cessation Apps for Older Adults



Sample Implementation: MIND Review - QuitNow



Ratings and Reviews (11)

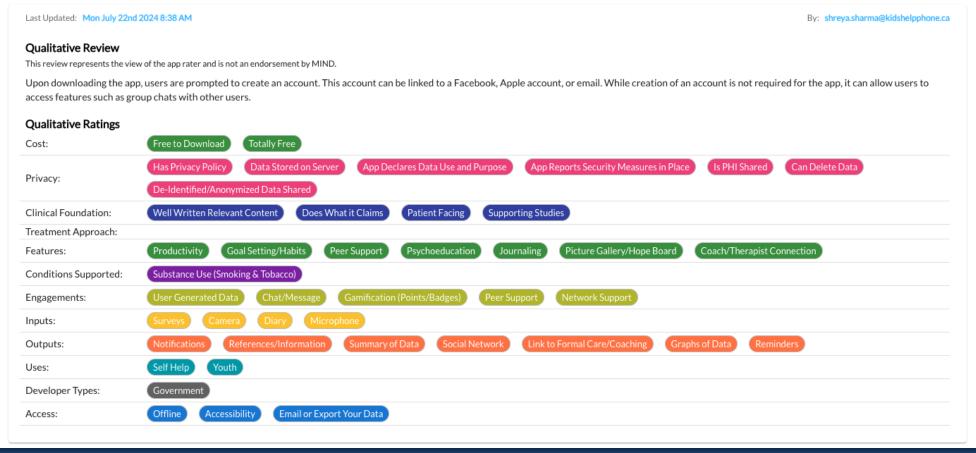
Explore the app's qualitative ratings & reviews





Sample Implementation: MIND Review - QuitNow



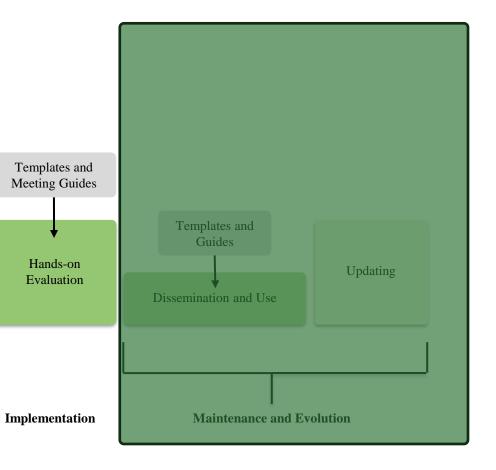




Number of Apps Considered

Sample Implementation: Smoking Cessation Apps for Older Adults

Hands-on Evaluation: Evaluation templates and checklists **Reviewing Apps** Meeting to analyze results Defining appropriate apps **Pre-Implementation Pre-Conditions**





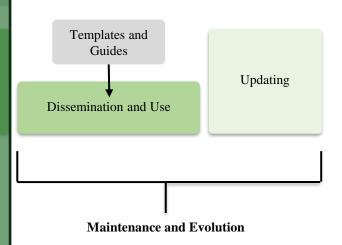
Sample Implementation: Smoking Cessation Apps for Older Adults

Dissemination and Use

- Guides to appropriate cessation apps for older adults
 - For patients & providers
- Educate providers on appropriate apps
- Guides to know when an app may help a client/patient
- Assist clients/patients with downloading and beginning use

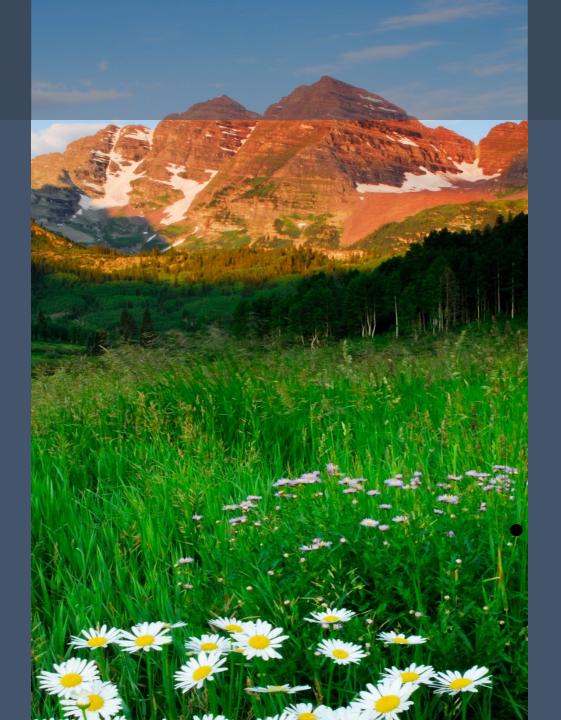
Updating:

 Repeat implementation stage to continually review current and new apps every 6 months



mHealth Evaluation Toolkit





- •Behavioral Health & Wellness Program
 - •303.724.3713
- bh.wellness@ucdenver.edu
 - www.bhwellness.org







Questions?



from NATIONAL COUNCIL FOR MENTAL WELLBEING

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For any questions, please email Coyle Shropshire at CoyleS@thenationalcouncil.org

