# Selecting Evidence-based Interventions (EBIs) for Impact

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# Objectives

 Describe resources for locating evidencebased interventions

 Describe a process to implement or adapt evidence-based interventions

 Increase grantees' ability to select high impact interventions with available budgets

# Defining Reach and Impact

What Is Reach? Reach is the extent to which a program attracts its intended audience.

What is Effect? The level of ability of an intervention to change behavior (i.e., brochures (small media) vs. provider reminders).

What is Impact? The effect that interventions have on people, organizations, or systems to impact health.



# Considerations for Impact

1

Define your goal(s) for change

2

- Identify EBIs or strategies that have high reach (patients, providers)
- Ex., Identify those that have high geographic access to extend reach
- Consider higher levels of socio-ecological model
- Ex., Change systems (health plans) instead of just 1 organization

# HPV State Teams Planning - Impact

Use of evidence-based interventions

- Work with multiple stakeholders (i.e., parent campaign, education, providers)
- Collaborate with systems (health systems)
- Policy approaches

# Focus on Health Equity

- Equal access is not equity;
   Interventions should be tailored to needs of specific population
- Requires the twin approach
  - Population level strategies
  - Targeted and culturally tailored interventions designed to address subpopulations with the highest disease rates



# Strategies for Health Equity

- Examine your data for populations of interest (i.e., rarely/never screened, lower access, stratify by race/ethnicity, language, income)
- Take actions that will support social determinants of health (i.e., assessing needs/assets, barrier specific screening-patient navigation)
- Partner with community organizations (e.g., gatekeeper, leveraging resources, extending reach)
- Collaborate with existing intact groups (e.g., cancer coalitions, HPV/CRC roundtables, professional associations, populationspecific serving organizations)

# Resources for Evidence-Based Interventions









County Health
Rankings & Roadmaps
Building a Culture of Health, County by County

What Works for Health



Healthy Communities Program

### http://www.thecommunityguide.org/

# \* The Community Guide

**Sponsor:** Taskforce for Preventive Services, CDC

**Health topics:** Multiple

Resources available: Strategies

(Recommendations from systematic reviews)

Topics

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#### Your online guide of what works to promote healthy commun

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#### YouthAlert! Uses Teamwork and Education to Prevent Youth Violence

A Kentucky-based youth violence prevention program, YouthAlert!, used evidence-based approaches recommended by the Community Preventive Services Task Force as the foundation of their campaign. Read the <u>full story</u>.

New York Makes Cancer a Public Health Priority

Community Health Workers Help Prevent Diabetes

#### **Explore Popular Features of The Community Guide**



The Community Guide in Action: Stories from the Field



Listen to the Experts

Community Guide audio clips feature



PHAB (Public Health Accreditation Board) Crosswalk



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### Our Methodology

#### Categories of Task Force Recommendations and Findings

The Task Force uses the terms below to describe its findings.

#### Recommended

The systematic review of available studies provides strong or sufficient evidence that the intervention is effective.

The categories of "strong" and "sufficient" evidence reflect the Task Force's degree of confidence that an intervention has beneficial effects. They do not directly relate to the expected magnitude of benefits. The categorization is based on several factors, such as study design, number of studies, and consistency of the effect across studies.

#### Recommended Against

The systematic review of available studies provides strong or sufficient evidence that the intervention is harmful or not effective.

#### Insufficient Evidence

The available studies do not provide sufficient evidence to determine if the intervention is, or is not, effective. This does NOT mean that the intervention does not work. It means that additional research is needed to determine whether or not the intervention is effective.

Task Force findings may include a rationale statement that explains why they made a recommendation or arrived at other conclusions.

#### How are costs and economic benefits evaluated?

If an intervention is found to be effective, the Community Guide evaluates its economic efficiency. This approach is used because the Task

Force makes recommendations based on whether or not an intervention is shown to improve health, regardless of its cost and/or economic



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# CPSTF Findings for Cancer Prevention and Control

The following tables include alphabetized lists of intervention approaches reviewed by the Community Preventive Services Task Force with summaries of the CPSTF finding for each (<u>definitions of findings</u>). Click a linked review title to read a summary of the evidence, access supporting materials, and where available, link to <u>Research-tested Intervention Programs (RTIPs)</u>. This table does not include <u>inactive</u> or <u>archived</u> reviews. Findings are divided into the following categories:

#### Increasing Cancer Screening

- · Client-Oriented Interventions
- Provider-Oriented Interventions
- Informed Decision Making

#### Preventing Skin Cancer

- · Community-Wide Interventions
- · Education and Policy Approaches
- Interventions Targeting Parents and Caregivers

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#### Systematic Review







#### Topic Cancer

Recommended July 2010

#### Audience

Adults

Healthcare Providers Older Adults

#### Setting

Clinical/Health Systems Rural

#### Strategy

Urban

Case Management Health Communication Outreach Screening Technology-based

## **Cancer Screening: Client** Reminders - Colorectal Cancer

Snapshot

What the CPSTF Found

Supporting Materials

Considerations for Implementation

#### Analytic Framework

Analytic Framework [PDF - 230 kB] - see Figure 1 on page 100

#### Summary Evidence Table

Summary Evidence Table - Effectiveness Review, Screenings by FOBT [PDF - 118 kB]

Summary Evidence Table - Effectiveness Review, Screenings by flexible sigmoidoscopy, colonoscopy, or barium enema 🛂 [PDF - 103 kB]

Intervention	Breast Cancer	Cervical Cancer	Colorectal Cancer
Multicomponent	*	*	*
Client-oriented			
Small media	*	*	*
One on one education	*	*	*
Group education	*		
Reducing Structural Barriers	*		*
<b>Provider-oriented</b>			
Provider reminder/ recall systems	*	*	*
Provider assessment and feedback	*	*	*



=Recommended

## http://rtips.cancer.gov/rtips



**Sponsor:** National Cancer Institute

Health topics: Multiple

Resources available: Programs

#### Research-tested Intervention Programs (RTIPs)

Moving Science into Programs for People

■ RTIPs Home ■ RTIPs Archive ■ Frequently Asked Questions ■ Fact Sheet ■ Contact Us



Use the link below to select a number of criteria, and see a list that contains evidence-based programs from several topics.

#### Select from 179 Evidence-Based Intervention Programs

RTIPs is a searchable database of evidence-based cancer control interventions and program materials and is designed to provide program planners and public health practitioners easy and immediate access to research-tested materials

#### Register your program now and be part of the RTIPs Community.

For more information on how to participate in a RTIPs review, read the RTIPs Submission and Review **Process: A Guide for Program Developers** 



Search Research to Reality (R2R) . NCI's online community of practice that links cancer control practitioners and researchers, for discussions, cyberseminars, and much more.

#### **New programs on RTIPs:**

- Breast Cancer Screening
  - ★ -Kukui Ahi (Light the Way): Patient Navigation (Post date: April, 2017)
- Sun Safety
  - -Sun Protection Strategies for Kidney Transplant Recipients (Post date: March, 2017)
- HPV Vaccination
  - -DOSE HPV: Development of Systems and Education for HPV Vaccination (Post date: February, 2017)
- ★ New evidence-based programs are released periodically. Please check for updates.

#### **News and Announcements About RTIPs**

RTIPs highlighted in the University of Kentucky News №

Research-tested inter-	vention Programs (RTPS)	
Moving Science into Programs for People	9	
■ RTIPs Home ■ RTIPs Archive ■ Frequently A	sked Questions Fact Sheet Contact Us	📢 <u>Cancer Control P.L.A.N.E.T. Home</u> &
	nd then click the button at the bottom of the page to go ur criteria; selections in different categories narrow the	
Topics  ☐ Breast Cancer Screening ☐ Cervical Cancer Screening ☑ Colorectal Cancer Screening ☐ Diet/Nutrition ☐ HPV Vaccination ☐ Informed Decision Making ☐ Obesity ☐ Physical Activity ☐ Public Health Genomics ☐ Sun Safety ☐ Survivorship/Supportive Care	Setting  Community Religious establishments Rural Suburban Urban/Inner City School-based Clinical Workplace Home-based Day care / Preschool	Materials  Available on RTIPs  Partially available on RTIPs  Available from third party only  Origination  Australia  Canada  United Kingdom  United States
☐ Tobacco Control  Age ☐ Children (0-10 years) ☐ Adolescents (11-18 years) ☐ Young Adults (19-39 years) ☑ Adults (40-65 years) ☐ Older Adults (65+ years)	Race/Ethnicity  (of Any % v of the study population)  Alaskan Native  American Indian  Asian  Black, not of Hispanic or Latino origin  Hispanic or Latino  Pacific Islander  White, not of Hispanic or Latino origin	Gender  ☐ Male ☐ Female

# R.T.I.P.S. Catalog



#### **Breast Cancer**

• 24 Programs



#### **Cervical Cancer**

• 13 Programs



#### **Colorectal Cancer**

• 19 Programs



HPV Vaccination 6 Programs



Survivorship

19 Programs



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#### Research-tested Intervention Programs (RTIPs)

Moving Science into Programs for People

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Cancer Control P.L.A.N.E.T. Home &

#### **Intervention Programs**

**Search Criteria Used:** Adults (40-65 years), Colorectal Cancer Screening Refine Your Search

Program Title & Description (16 programs alphabetically listed)	Program Focus	Population Focus
1. Automated Telephone Calls Improve Completion of Fecal Occult Blood Testing Designed to increase colorectal cancer screening among adults. (2010) NCI (Grant number: R01CA132709)	Awareness building and Behavior Modification	Adults
Criteria Matched: Adults (40-65 years), Colorectal Cancer Screening		
Colorectal Cancer Screening in Chinese Americans Project  Designed to help increase colorectal cancer screening among low-income, less-acculturated Chinese Americans. (2006)  NCI (Grant number: CA92432)  Criteria Matched: Adults (40-65 years), Colorectal Cancer Screening	Awareness building and Behavior Modification	Medically Underserved
3. Colorectal Cancer Screening Intervention Program (CCSIP)  Designed to increase colorectal cancer screening among African American adults. (2010)  CDC (Grant number: U57/CCU42068), CDC (Grant number: 548DP000049), NCI (Grant number: U01CA1146520), NCI (Grant number: U54CA118638), NCRR (Grant number: UL1RR025008)	Awareness building and Behavior Modification	Un- and/or Underscreened Individuals
Criteria Matched: Adults (40-65 years), Colorectal Cancer Screening		

#### Automated Telephone Calls Improve Completion of Fecal Occult Blood Testing

#### On This Page

- The Need
- The Program
   »Implementation Guide

**Community Preventive** 

- <u>Services Task Force</u> Finding
- Time Required
- Intended Audience
- Suitable Settings
- Required Resources
- About the Study
- Key Findings
- Publications
- User Reviews (0)

#### Products

Preview, download, or order free materials on CD-ROM

Browse more programs on Colorectal Cancer Screening

#### Highlights

- Program Title Automated Telephone Calls Improve Completion of Fecal Occult Blood Testing
  - Purpose Designed to increase colorectal cancer screening among adults. (2010)

Program Focus Awareness building and Behavior Modification

Population Focus Adults

Topic Colorectal Cancer Screening

Age Adults (40-65 years), Older Adults (65+ years)

Gender Female, Male

Race/Ethnicity Alaskan Native, American Indian, Asian, Black, not of Hispanic or Latino origin, Hispanic or Latino, Pacific Islander, White, not of Hispanic or Latino origin

**Setting** Clinical

**Origination** United States

Funded by NCI (Grant number(s): R01CA132709)

User Reviews (Be the first to write a review for this program)

#### RTIPs Scores

This program has been rated by external peer reviewers. <u>Learn more about RTIPs program review ratings</u>.

- Research Integrity
  - 4.6
- Intervention Impact
  - 2.0
- Dissemination Capability

5.0

(1.0 = low 5.0 = high)

#### i RE-AIM Scores

This program has been evaluated on criteria from the RE-AIM & framework, which helps translate research into action.

Reach

80.0%

Effectiveness

66.7%

Adoption

100.0%

Implementation

57.1%

#### The Program

Description

Automated Telephone Calls Improve Completion of Fecal Occult Blood Testing is an automated telephone intervention to increase CRC screening using an FOBT home test kit. Staff at health maintenance organizations (HMOs) identify patients in an electronic database who will receive the automated calls. The criteria used to define the need for routine screening are as follows: (1) no completed FOBT screening within the past 12 months; (2) no flexible sigmoidoscopy or double-

contrast Show more \*

#### Implementation Guide

The Implementation Guide is a resource for implementing this program. It provides important information about the staffing and functions necessary for administering this program in the user's setting. Additionally, the steps needed to carry out the research-tested program, relevant program materials, and information for evaluating the program are included. The Implementation Guide can be viewed and downloaded in the Products page.

Show less •

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#### Community Preventive Services Task Force Find

@This program is an example of <u>client reminder intervention</u>: Screening), which is **recommended** by the Community Prevas found in the *Guide to Community Preventive Services*.

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#### Time Required

- Up to three, automated, type 1, general reminder calls, eac follow-up calls at 6 and 12 weeks later if no FOBT has been
   One additional, automated, type 2, FOBT return call, approx following an initial patient request for an FOBT kit, if a complete
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#### Intended Audience

The intervention targets adults aged 51-80 years at average r screening.

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#### Suitable Settings

The intervention can be delivered through a group-model HMO or other

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#### Required Resources

- Implementation guide
- Automated calling system
- Call scripts
- Mailed FOBT materials

Implementation Guide:

- Steps and Players/
   Implementer for each intervention
- Detailed steps can go into your action plan for each cancer area

RE-AIM View Notes

Use this area to take notes about how this program might work for you. Read More about FE-AIM &.

Reach

Absolute number, proportion and representativeness of individuals who participate in the program.

Total # of people who could benefit:

(Max. 8 characters)

Total # of people you could reach:

(Max. 8 characters)

ng your target

# Selecting and Adapting EBIs



# 1. Obtain information about EBIs that address your aims and objectives

#### 2. Assess fit:

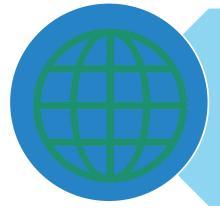
Compare candidate EBI with assessment findings

3. Select based on fit and strength of evidence

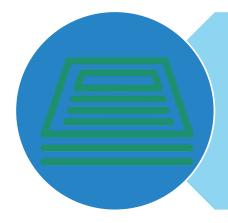
# Steps for Selecting

#### 1. Obtain

# Find information about EBIs that address your aims/objectives



Websites that are disseminating information about EBIs



Journal articles or other literature about relevant EBIs

#### 1. Obtain

# Locate EBIs that address the contributing factors identified in your assessment

#### **Factors by Levels**

Individual: Not screened

(Knowledge, Beliefs, Attitude, Confidence)

Provider: Does not recommend

(Awareness, Knowledge)

**Organization**: Lacks accessible hours; no transportation

**Community**: GI not available to do diagnostic tests

#### **Problem**

Low CRC Screening Rates

#### 2. Assess fit

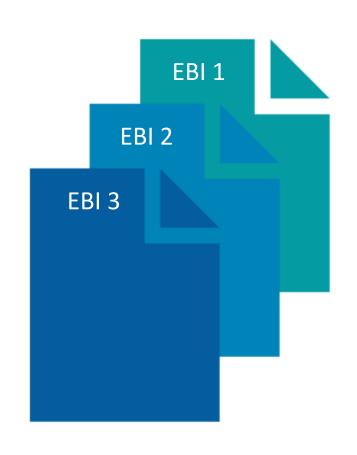
#### Assess EBIs Fit

#### Fit Criteria

- Health problem
- Aims/Objectives
- Priority population
- Setting
- Other factors
  - Patient
  - Provider
  - Organization
  - Community
- Resources







#### 2. Assess fit

### Consider Both Types of EBIs

### **Programs**

(e.g. from Cancer Control Planet)

- Community Cancer Screening Program (CCSP)
- Family CARE (Colorectal Cancer Awareness and Risk Education) Project
- Flu-FIT and Flu-FOBT Program

### Strategies

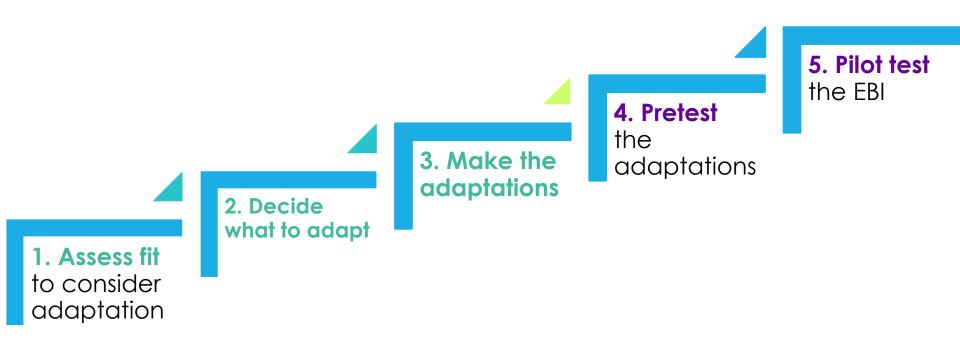
(e.g. from the Community Guide)

- One-on-one education
- Client reminders
- Provider reminders

2. Assess fit

# Comparison Tool for Selecting an EBI

Fit Criteria n	Assessment/Fi	EBI 1	Does this fit your audience?		EBI 2	Does this fit your audience?			
	Priorities	LDI I	Yes	Some	No	LDI Z	Yes	Some	No
Health Problem				•					
Objectives									
Priority population									
Setting									
Multi-level contributing factors									
Resources									



## Steps for Adaptation

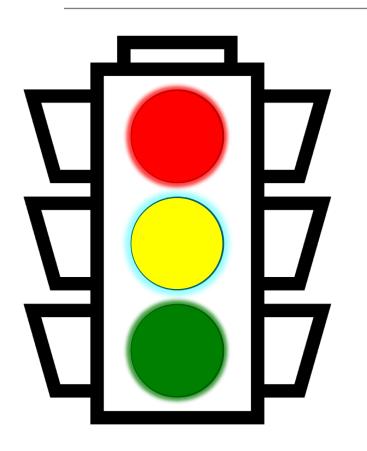
## 1. Assess Fit

Fit Criteria	Fit Criteria Assessment EBI	EBI	Does This Fit Your Audience?			
		NO	MAYBE	YES		
Health Goal/Problem						
Objectives						
Priority population						
Setting						
Other multi-level contributing factors						
Capacity and Resources						

# 2. Decide What to Adapt

Fit Criteria	Assessment Findings	EBI	Areas of Misalignment	Specific Aspects of the EBI to be Adapted
Health Goal/Problem				
Objectives				
Priority population				
Setting				
Other multi-level contributing factors				
Capacity and Resources				

# Guidelines for Adapting Programs (i.e., RTIPs)



Red should be avoided to maintain fidelity on core components

Yellow should be made cautiously

Green is safe



# Minor adaptations to increase reach, receptivity, and participation

- Update and/or customize statistics and guidelines
- Customize program materials to fit the priority population such as changing names, pictures, wording, logos, etc.
- Change ways to recruit and/or engage priority population

#### **Content or methods**

- Alter the length of program activities
- Change the order of sessions or sequence of activities
- Add activities to address other risk factors or behaviors
- Apply EBI to a different population

#### **Delivery mechanisms**

- Change delivery format/process
- Modify who delivers the program
- Change setting of delivery
- Substitute activities and/or materials

#### Methods used

Change theoretical underpinning; mechanisms of change

#### Content

- Change health topic/behavior addressed
- Add activities that contradict or detract from the original program goals
- Delete whole sections or major activities
- Reduce duration and dose

## Thank You!



Cancer Prevention and Control Research Network Evidence-based Practices Training Materials

http://cpcrn.org/pub/eviden
ce-in-action/

