



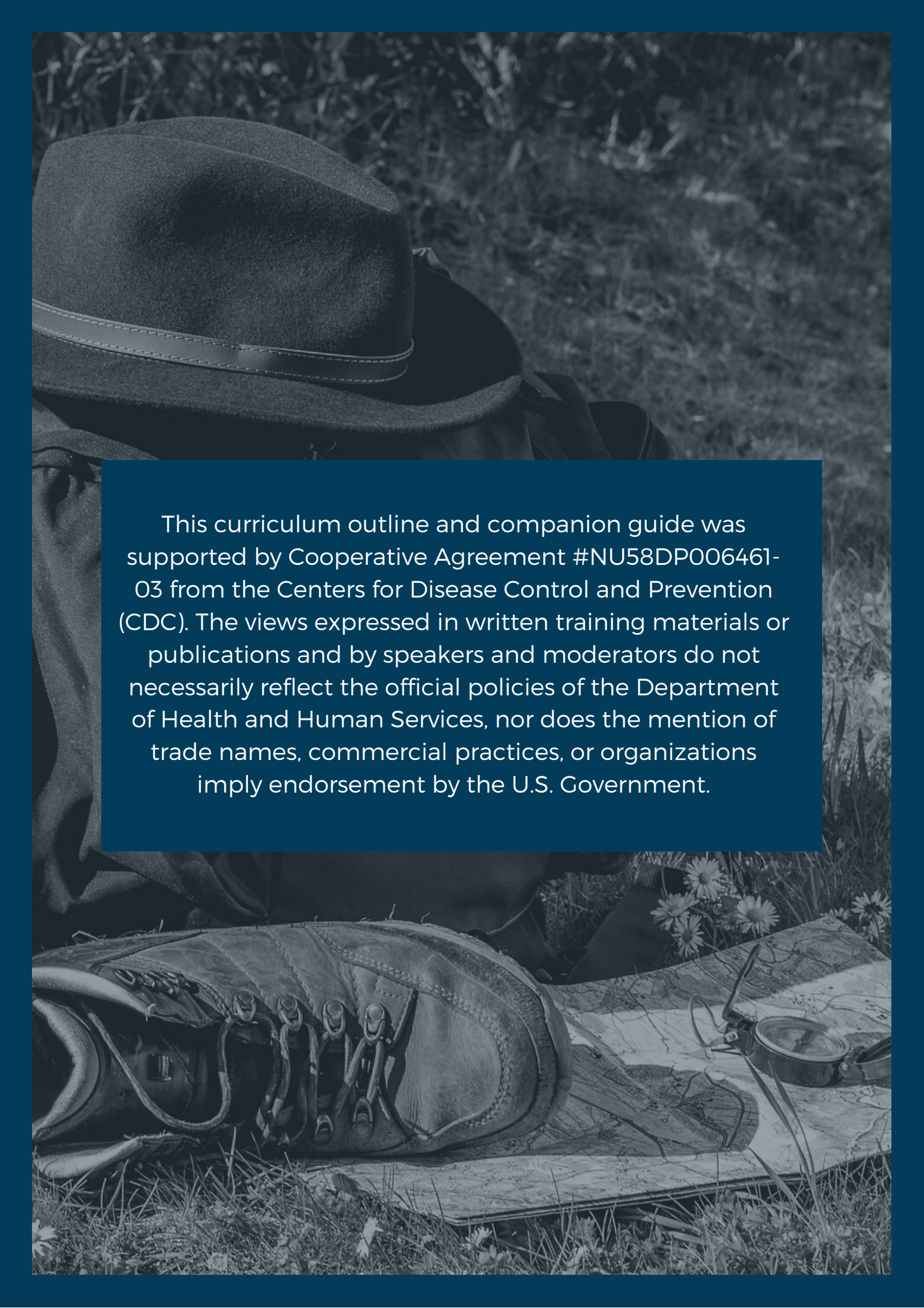
GW



COMPANION GUIDE

GW CANCER CENTER

Cancer Control Implementation Science
Base Camp

A black and white photograph of outdoor gear. In the foreground, a dark, wide-brimmed hat with a light-colored band lies on the ground. Below it, a pair of worn, dark leather boots with laces is visible. To the right, a map is spread out on the ground, and a compass is placed on it. The background shows a field of tall grass and some small white flowers. The entire image has a dark, moody tone.

This curriculum outline and companion guide was supported by Cooperative Agreement #NU58DP006461-03 from the Centers for Disease Control and Prevention (CDC). The views expressed in written training materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services, nor does the mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

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INTRODUCTION

The Cancer Control Implementation Science Base Camp is driven by 20 competencies to introduce cancer control practitioners to implementation science. Competencies include: assessing context, using evidence and theories, facilitating implementation, evaluating implementation, and sustaining interventions. To keep lessons applied and streamlined, Base Camp weaves a fictional case study throughout the entire training, along with real case studies and panel discussions. This companion learner guide was created to include supplemental learning materials and to guide you and your teammates throughout the training.

There are several online modules to complete, pre- and post-training quizzes, video lectures, recordings and supplemental resources.






Various concepts and frameworks are referenced throughout the training. To identify the concepts and frameworks being discussed refer to the 10 icons described on the next page. Icons are found in both the presentation slides and companion learner guide. Appendix A includes a glossary of commonly used terms. Do not worry about memorizing or being specific about these definitions. Think generally about how to apply these principles to improve your projects.

If you have any questions please email us at gwcanceradmin@gwu.edu.










ICONS

Topic	Visual	Description
Equity		A goal for every person to have the opportunity to attain their full health potential
Partner Engagement		Tips on recruiting and maintaining relationships
Consolidated Framework for Implementation Research (CFIR)		Context considerations when planning your initiative
Evidence-Based Interventions (EBIs)		Evidence for an intervention
Adaptation		Considerations for how you might change flexible components of the intervention to best fit your context



ICONS

Topic	Visual	Description
Implementation Science Strategies		Specific strategies to optimize implementation of your initiative
RE-AIM Framework (reach, effectiveness, adoption, implementation, maintenance)		A framework to organize the process of evaluating implementation outcomes
PSAT (Program Sustainability Assessment Tool)		A tool to identify factors relating to sustaining an intervention after initial adoption
FLU-FIT Case Study		Increases colorectal cancer screening rates by providing a take-home test (FIT) to eligible patients with their annual flu shot
Poll Question / Games		Interactive group activities



CANCER CONTROL IMPLEMENTATION SCIENCE BASE CAMP LOGISTICS

Companion Guide:

Use this companion guide to follow along, take notes, review case study narratives, and complete an implementation blueprint.

Online Academy:

The asynchronous modules are hosted on GW's learning management system called the Online Academy. Please create an account [here](#) and then register for the [Cancer Control Implementation Science Base Camp](#) course. The link to this online component of the Base Camp should be shared with any clinical, coalition or executive partners that you are working with on your implementation project.

Community of Practice:

As resources allow, GW hosts a virtual community of practice to allow peer sharing and reinforce concepts from the training. These sessions are led by GW technical assistance providers and comprehensive cancer control practitioners that co-created and/or participated in the training. As additional learners complete the training, they can also volunteer to co-lead these sessions to further advance their knowledge on implementation science. Conversation topics will likely include: how to develop an implementation blueprint, peer sharing of successes and challenges, how tools are used, and how to run your own Base Camp training to further extend the reach of the training. Contact us at gwcanceradmin@gwu.edu if you would like to know more about the Community of Practice.

PROJECT TEAM



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Mandi Pratt-Chapman, MA, PhD, Hon-OPN-CG is the Associate Director of Community Outreach, Engagement, & Equity at GW Cancer Center. Her research focuses on workforce capacity to advance patient-centered care and health equity in oncology. Dr. Pratt-Chapman's background is in translational health sciences, and she has seventeen years of experience as a comprehensive cancer control technical assistance provider.



Joseph A. Astorino (he/ him)
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Joseph Astorino, PhD is a post-doctoral scientist for the GW Cancer Center. His research focuses on health equity outcomes and the synergy between social sciences, community engagement and implementation science. Dr. Astorino's background is in the sociology of science and technology, as well as non-profit program development and evaluation.






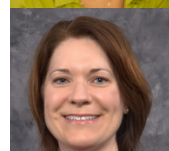







Dao Duong (she/ her)
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Dao Duong, MPH, CHES® is a Technical Assistance and Training (TAT) Coordinator for Comprehensive Cancer Control at the GW Cancer Center. In this position, Dao designs and supports high-quality TAT for National Comprehensive Cancer Control Program (NCCCP) grantees and their partners to implement cancer control activities. She will be leading the Cancer Control Implementation Science Base Camp Community of Practice.

We would also like to thank Sarah Kerch, MPH, formerly the Comprehensive Cancer Control Technical Assistance Program Director for the GW Cancer Center, Ruta Rangel and Annie McDonnell for their review and feedback on earlier drafts of this toolkit.

STEERING COMMITTEE

	<u>Members</u>	<u>Area of Expertise</u>
	Heather Brandt Director HPV Cancer Prevention Program, Co-Associate Director of Outreach, St. Jude Children's Research Hospital & Comprehensive Cancer Center	Dissemination and implementation science research; Community-engaged research; Human papillomavirus (HPV) vaccination; Cancer-related health disparities
	Christi Cahill Executive Director, Colorado Cancer Coalition	Coalition building; Program planning; Coalition communications
	David Chambers Deputy Director for Implementation Science, Office of the Director in the Division of Cancer Control and Population Sciences at the National Cancer Institute	Implementation Science; Integrating research, practice and policy; Organizational behavior
	Gloria Coronado Distinguished Investigator Health Disparities, Kaiser Permanente Center for Health Research	Health disparities; Pragmatic research; Delivery system science; Patient activation; Engagement; Cancer prevention
	Shauntay Davis-Patterson Program Director, Comprehensive Cancer Control Program, California Department of Public Health	Coalition building; Facilitation; Comprehensive cancer control; Colorectal cancer screening; HPV vaccination; Cancer survivorship
	Polly Hager Cancer Prevention and Control Section Manager, Michigan Department of Health and Human Services	Comprehensive cancer control; Cancer coalition maintenance; Colorectal cancer screening; Program planning and implementation; Program integration
	Erin Hahn Research Scientist, Division of Health Sciences Research and Implementation at Kaiser-Permanente	Dissemination and implementation science; Cancer care delivery system research; Cancer survivorship
	Caleb Levell Strategic Director, National Partnerships and Roundtables, American Cancer Society	Cancer Screening; Cancer control; Coalition building
	Tamara Robinson Program Director, Nebraska Cancer Coalition NC2	Stakeholder engagement; Facilitation
	Randy Schwartz President, Public Health Systems, Inc.	Cancer prevention and control implementation; Community interventions; Community-clinical linkages; Policy intervention strategies; Tobacco control implementation; Practitioner engagement in implementation science
	Kelly Wells Sittig Executive Director, Iowa Cancer Consortium	Collaborative cancer control; State cancer control coalitions; Network development

The views expressed in this training do not represent or reflect the Steering Committee's organizational viewpoints, positions or policies.

LIVE SESSIONS AT A GLANCE

ADAPT BASE CAMP CALENDAR FOR YOUR PLAN

LIVE SESSION 1: ENTER DATE HERE

Time	Topic
ENTER TIMES HERE	<i>Welcome & Housekeeping</i>
ENTER TIMES HERE	<i>Discussion of Base Camp Content and Case Study</i>
ENTER TIMES HERE	<i>Team Huddle: Introductions and SMARTIE Objectives</i>
ENTER TIMES HERE	<i>Large Group Debrief</i>

LIVE SESSION 2: ENTER DATE HERE

ENTER TIMES HERE	<i>Check-in and Icebreaker</i>
ENTER TIMES HERE	<i>Team Huddle: Mapping Your Context</i>
ENTER TIMES HERE	<i>Large Group Debrief</i>

LIVE SESSION 3: ENTER DATE HERE

ENTER TIMES HERE	<i>Check-in and Icebreaker</i>
ENTER TIMES HERE	<i>Team Huddle: Selecting Your EBI & Planning for Adaptations</i>
ENTER TIMES HERE	<i>Large Group Debrief</i>

LIVE SESSION 4: ENTER DATE HERE

ENTER TIMES HERE	<i>Check-in and Icebreaker</i>
ENTER TIMES HERE	<i>Facilitating Implementation Panel</i>
ENTER TIMES HERE	<i>Facilitating Implementation: Breakout Groups</i>
ENTER TIMES HERE	<i>Large Group Learning Session</i>

LIVE SESSION 5: ENTER DATE HERE

ENTER TIMES HERE	<i>Check-in and Icebreaker</i>
ENTER TIMES HERE	<i>Summary of Base Camp for non-participants</i>
ENTER TIMES HERE	<i>Teams Present Blueprints</i>
ENTER TIMES HERE	<i>Facilitated Dialogue</i>
ENTER TIMES HERE	<i>Evaluation</i>

UNIT 1

INTRODUCTION TO CANCER CONTROL IMPLEMENTATION SCIENCE

Take your time - implementation can be hard.

We will focus on introducing implementation science.

During this session:

- Take Pre-training quiz for Module 1
- Read Implementation Science at a Glance Resource
- Read Appendix B: Fictional FLU-FIT Case Study in Companion Guide
- Browse supplemental resources
- Watch Module 1 recording
- Complete **Unit 1 Discussion** activities and questions within this guide as a team (see following pages)
- Take Post-training quiz

Goals

Context Map

EBI Libraries

Evaluation Surveys

Blueprints



UNIT 1 DISCUSSION

INTRODUCTION TO IMPLEMENTATION SCIENCE

Team Huddle: Introductions, SMARTIE Objectives, Debrief



ENGAGEMENT

What are you hoping to get out of the training?

Write down one challenge you are facing or anticipate as you explore addressing cancer outcomes in your community:



UNIT 1 DISCUSSION

INTRODUCTION TO IMPLEMENTATION SCIENCE

With your team members, introduce yourselves, describe what you are hoping to get out of the training, and your one challenge. Write them below:

Team Member Name, Role, Org	Hope & Challenge

As a group, decide what the three top challenges are for your team and write them here:

1. _____

2. _____

3. _____

UNIT 1 DISCUSSION

INTRODUCTION TO IMPLEMENTATION SCIENCE

With your team, turn your expectations into an agreed-upon SMARTIE objective and document it in your Implementation Blueprint.

Be sure to create your SMARTIE objective with a health equity lens. Review this [Health Equity Tip Sheet](#) for guidance.



EQUITY

**Specific – Measurable – Achievable – Realistic – Timely-
Inclusive – Equitable**

As a group, decide on a day, time, and venue to meet and collaboratively develop your project:

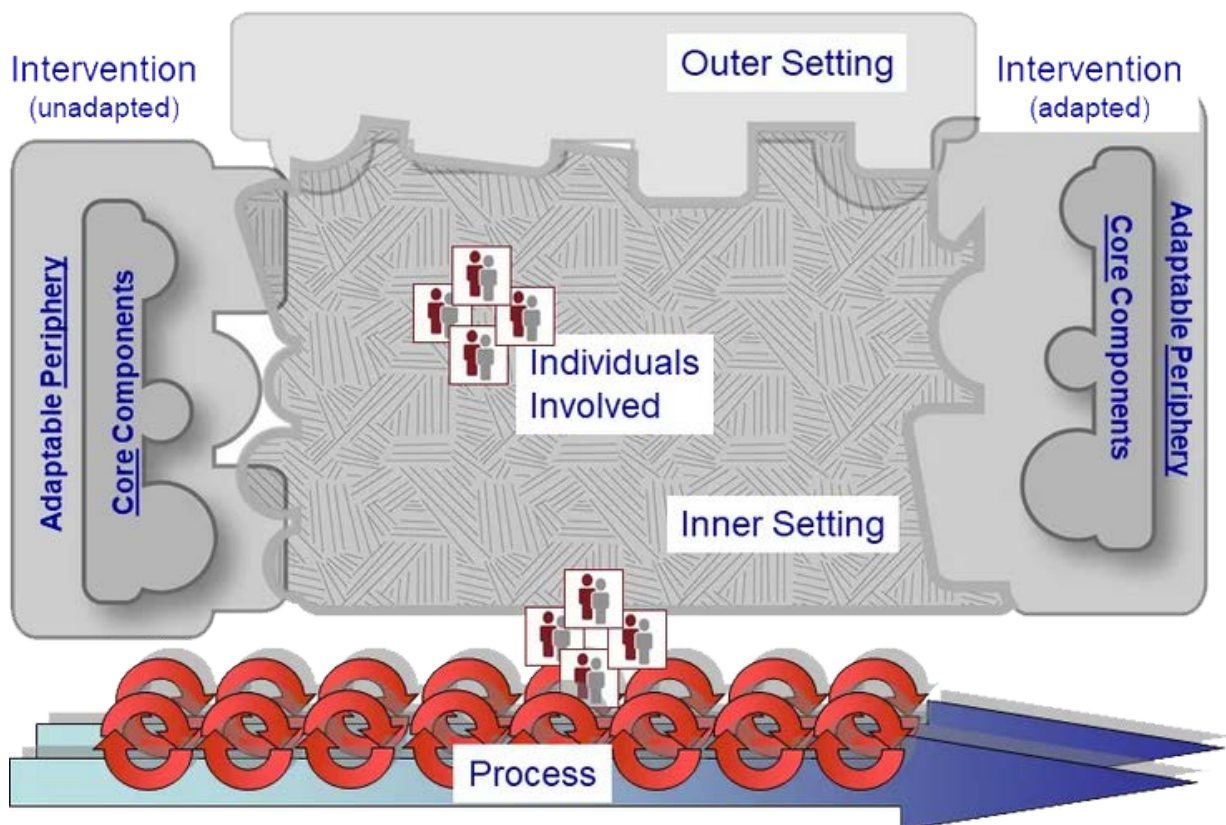


UNIT 2

ASSESS THE CONTEXT

Tasks to complete:

- Take Pre-training quiz for Module 2
- Watch Module 2 recording
- Browse Consolidated Framework for Implementation Research (CFIR) Tool and other supplemental resources
- Complete **Unit 2 Discussion** activities and questions within this guide as a team (see following pages)
- Take Post-training quiz



UNIT 2 DISCUSSION

ASSESS THE CONTEXT

Without context, words and actions have no meaning at all

Team Huddle: Mapping Your Context

What contextual factors do you think are most important to consider when addressing your cancer problem?

As a team, what do you collectively believe to be the most important contextual factors to consider when addressing your cancer problem?

With your team, list the most common contextual factors in your Implementation Blueprint

Critical Reflection: How has your understanding of the problem evolved?

UNIT 3

HOW TO FIND EVIDENCE-BASED INTERVENTIONS FOR CANCER CONTROL

What is an EBI?

A health-focused intervention, practice, program, or guideline with evidence demonstrating the ability of the intervention to change a health-related behavior or outcome



EVIDENCE

Tasks to complete:

- Take Pre-training quiz for "How to Find Evidence-Based Interventions for Cancer Control"
- Watch recording
- Browse evidence-based intervention links from the supplemental resources
- Take Post-training quiz
- Complete **Unit 3 Discussion** activities and questions (see following page)
- Plan team huddle to review EBIs for your cancer control goal at the Evidence Based Cancer Control Programs (EBCCP) or Community Guide site

"No research without action, no action without research." - Kurt Lewin

UNIT 3 DISCUSSION

HOW TO FIND EVIDENCE-BASED INTERVENTIONS FOR CANCER CONTROL

Team Huddle: Choosing an EBI and Large Group Debrief

Browse through the [Evidence-Based Cancer Control Program \(EBCCP\)](#) website for an EBI that addresses your cancer problem.



What EBIs do you and your teammates think fit the goals of your project?

With your team, identify the EBI that best matches your goals. List your chosen EBI in the Implementation Blueprint.



Critical Reflection: What characteristics of this intervention should be considered given the contextual fit you previously identified?



UNIT 4

USING EVIDENCE AND THEORIES TO INFORM ADAPTATION

Adaptation

The degree to which an EBI is changed or modified by a user during adoption and implementation to suit the needs of the setting or to improve the fit to local conditions



- Minor changes
- Program names
- Updated statistics
- Tailored content



- Adding or modifying components
- Activities, sequence, audience, delivery format, delivery person



- Changing core elements or theory/model
- Deleting core components
- Timeline
- Dose



ADAPTATION

Tasks to complete:

- Take Pre-training quiz for "Using Evidence and Theories to Inform Adaptation"
- Watch recording
- Browse associated supplemental resources
- Take Post-training quiz
- Complete **Unit 4 Discussion** activities and questions (see following pages)
- Plan team huddle to design adaptations for your evidence-based intervention

UNIT 4 DISCUSSION

USING EVIDENCE AND THEORIES TO INFORM ADAPTATION

Mini-Huddle: Adapting EBIs



What are the core and adaptable components from the EBI you previously selected?

With your team, list the core and adaptable components in your Implementation Blueprint.

UNIT 5

USING EVIDENCE AND THEORIES TO INFORM IMPLEMENTATION

Plan	Educate
Finance	Restructure
Quality	Policy

In this unit you will explore a range of implementation strategies that can be included as part of an intervention design to optimize outcomes.

"The best big idea is only going to be as good as its implementation." -Jay Samit

STRATEGIES

Before This Session Starts the Following Should be COMPLETED:

- Take Pre-training quiz for Module 5
- Watch Black Corals Program video
- Watch Module 5 recording
- Browse Implementation Strategies grid (Appendix E in companion guide) and other supplemental resources
- Take Post-training quiz
- Complete **Unit 4 Discussion** activities and questions (see following page)
- Plan team huddle to discuss the implementation strategies that best fit your intervention and project plan

UNIT 5 DISCUSSION

USING EVIDENCE AND THEORIES TO INFORM IMPLEMENTATION

See Appendix E for Implementation Strategies Grid

Plan	Educate
Finance	Restructure
Quality	Policy

STRATEGIES

Team Huddle: Implementation Strategies

What implementation strategies could be included in your plan?

What implementation strategies did your teammates determine to be the best strategies to implement your intervention?

With your team, list the implementation strategies in your Implementation Blueprint.



UNIT 6

FACILITATING IMPLEMENTATION



We will focus on facilitating implementation.

Before this session starts the following should be COMPLETED:

- Read Case Studies in Appendix C
- Watch recording of the panel on the Online Academy
- Complete **Unit 5 Discussion** activities and questions (see following page)
- Plan team huddle to discuss this week's topics together

UNIT 6 DISCUSSION

FACILITATING IMPLEMENTATION

What topics from the panel do you want to discuss with your team?

Plan	Educate
Finance	Restructure
Quality	Policy

STRATEGIES



Remember! Model humility, transparency and accountability in your implementation work.



UNIT 7

EVALUATION



This block of time will focus on implementation outcomes and evaluation.

Before finalizing your project plans, the following should be COMPLETED:

- Take Pre-training quiz for Module 7
- Watch Module 7 recording
- Browse RE-AIM framework website and other supplementary resources
- Take Post-training quiz for Module 7
- Use **Unit 7 discussion** on the following page to discuss as a team

UNIT 7 DISCUSSION

EVALUATION

Remember!

If you get stuck during implementation, remember to refer to your original blueprint to get back on track!

Link to [RE-AIM Tool](#)



Team Huddle: Evaluation Planning

What RE-AIM outcomes do you think are most important for your coalition to capture to show the value of your initiative to key stakeholders?



UNIT 7 DISCUSSION

EVALUATION

How will you evaluate whether your intervention moved the needle on health equity?

As a team, what outcomes do you collectively think should be included?

With your team, list the most common RE-AIM dimensions and outcomes in your Implementation Blueprint.



UNIT 8

PLANNING FOR SUSTAINABILITY



This block of time will focus on sustaining your intervention over the long term.

Sustainability

To what extent an evidence-based intervention can deliver its programming and its intended benefits over an extended period of time after external support ends

Before finalizing your project plans the following should be COMPLETED:

- Take Pre-training quiz for Module 8
- Watch Module 8 recording
- Take Post-training quiz for Module 8
- Meet as team and take PSAT and review results
- Use **Unit 8 Discussion** on the following page to discuss as a team

CONCLUSION

WRAPPING UP



Tasks to complete at the end of the training:

- Browse and download supplementary resources that will help you with future work
- Take Post-training quiz
- Incorporate all components, including evaluation and sustainability elements into your final blueprint
- Meet as team using the **Unit 9 Discussion** on the following page to debrief about the learning experience

DISCUSSION

WRAPPING UP

What are your key takeaways from the training?

What are your team's next steps in moving your Implementation Blueprint to action?



APPENDIX A

IMPLEMENTATION BLUEPRINT

Please refer to the Implementation Blueprint on the next page throughout the Base Camp. Below are definitions of some of the key terms used in the Blueprint:

Context: The people and places involved in implementing the intervention

EBI: The intervention

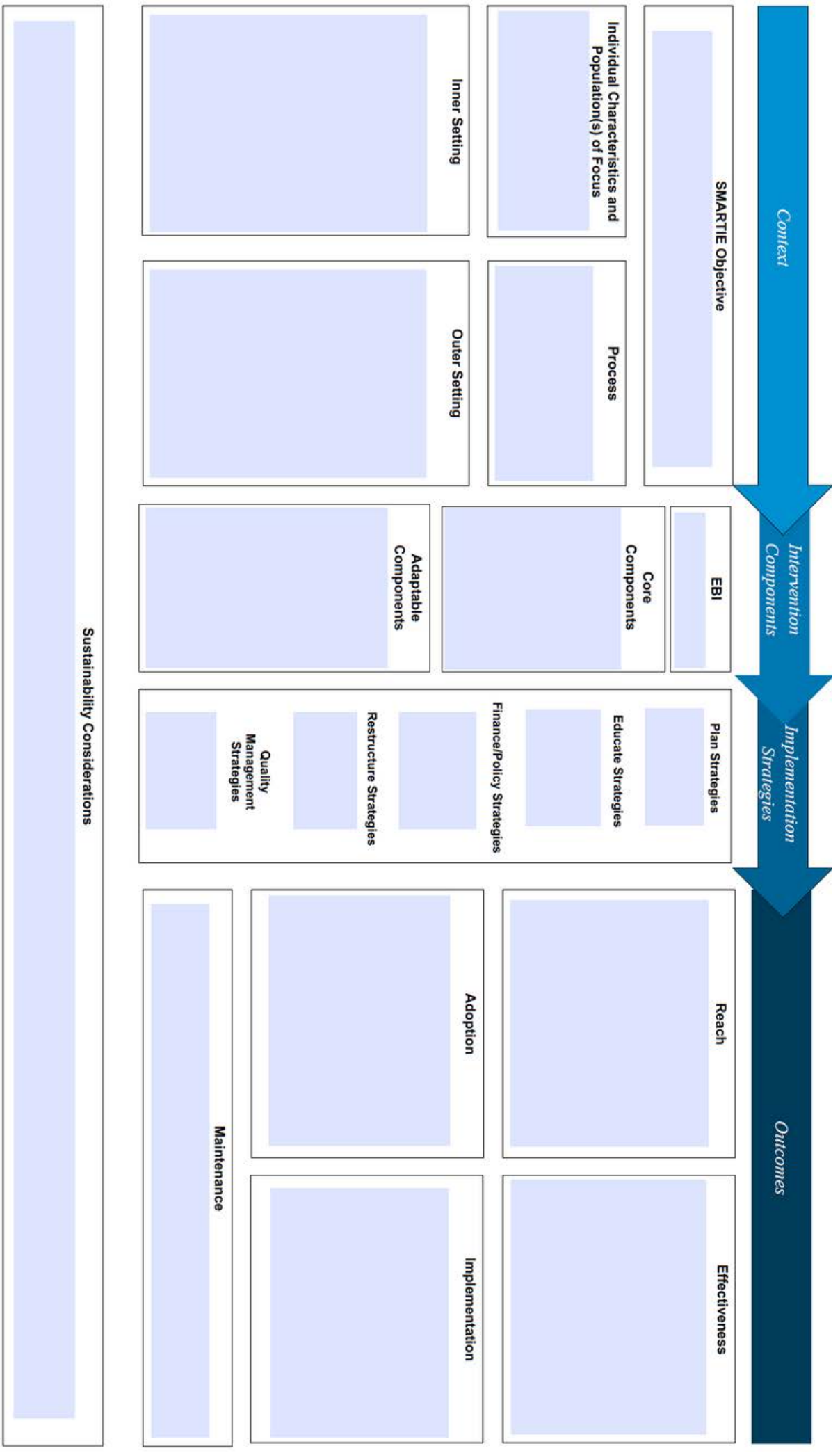
Core components: Parts of the intervention not able to be changed

Adaptable components: Parts of the intervention that could be changed

Strategies: How the intervention works

Outcomes: If the intervention works

Sustainability: Sustaining the intervention



APPENDIX B

FICTIONAL CASE STUDY



A group of stakeholders in Washington D.C. decide to focus on cancer screening through a health equity lens. The racial demographics for Ward 7 in the district are 91.7% Black, with a rate of 23.3% of people below the poverty line. They discover that the colorectal cancer screening rate in Ward 7 is typically less than 50% while the goal is 80%. The planning process they develop includes engagement across many sectors. The health centers serving the area do not have the capacity to take on new interventions. Engagement events are uncovering that many pharmacies in the neighborhood are currently more accessible than other healthcare sites and that people in Ward 7 are more accepting of new preventive interventions when implemented in pharmacies.

The team considers these factors and identifies the FLU-FIT intervention as an evidence-based intervention. A clinical champion from the team searches the EBI library to find a bundled package for new FLU-FIT programs to help make implementation more efficient. After finding one on the EBCCP website, the team determines which of the parts of the program to adapt. The team decides to design an implementation strategy built around a train-the-trainer model with local champions becoming the backbone of the intervention. This intervention increases the reach of FLU-FIT from 501 to 871 Black patients. Data also demonstrates an increase in the percentage of kits returned, rising from 48% to 60%. Eight (8) pharmacists nested in three (3) pharmacies adopt the program.

Initial evaluation data show that patients find the intervention acceptable and it takes minimal extra time for the technicians to implement. The team realizes they will need to implement new strategies to share data between providers and pharmacies to increase the reach and adoption of the program in the future to help institutionalize the change. The team decides to perform a sustainability assessment and discovers that there is strong environmental support for the program in the form of policy support with partnerships organically forming across pharmacist champion networks, which is promising for sustainability. Multiple stores are also running shared public service announcements describing the program and pharmacy schools are starting to include information about the program in their curricula.

APPENDIX C

PANEL CASE STUDIES

Lung Cancer

The implementation of lung cancer screening remains limited in many low resource settings, despite evidence demonstrating it is both effective and safe. The partners developed a pilot study using care coordination to streamline referrals to screening. In the end, Site A resulted in successfully implementing a sustainable lung cancer screening program, while Site B struggled to do so. Site A developed a plan that included process mapping, which led to scaling up the changes involved. Site B lacked an initial investment in the planning process, and participating individuals were not confident in their knowledge of the changes being introduced.

Some of the other differences included Site A prioritizing the intervention and identifying it as an ideal fit. In contrast, Site B was undergoing significant organizational restructuring. Site A had dedicated resources to lung cancer screening such as staff time and ability to quickly add fields in the electronic health record, while Site B described itself as lacking internal resources to make the intervention work well. This investment in resources was critical in navigating the complex external policies of Medicare that require data such as smoking history to be recorded for referrals. Strategies used across both sites for the implementation process included training, technical assistance, financial support, engaged leadership, champions, and learning collaboratives.

The results of this pilot project helped determine the factors to seek out when considering implementing a complex intervention in Federally Qualified Health Centers, as well as other limited resource settings, in diverse geographic locations.

Original Source:

<https://academic.oup.com/tbm/advance-article/doi/10.1093/tbm/ibaa121/6027417>

APPENDIX C

PANEL CASE STUDIES

Colorectal Cancer

Low colorectal cancer screening rates throughout rural Appalachia are a common and serious problem. An eleven-clinic health center in the area began to develop a change effort to address this issue. Stakeholder partners started with the exploration phase of mapping the barriers and facilitators in their unique setting that could be changed and leveraged to promote the increasing of screening rates above the dismal 22%-30% rate. Appalachia's social determinants of health include high rates of poverty, low employment and insurance, as well as barriers related to transportation. Many people lack access to colonoscopy services because of these factors. Within the health center, there are inefficiencies with the Electronic Health Record, and prevention and early detection of disease has not been identified as a major priority with leadership. Characteristics of the population involved relevant to the effort include reported low levels of self-efficacy.

The implementation team requested feedback from staff from the health center regarding strategies to improve screening rates considering the barriers identified. The staff came up with around seven themes related to improvement and many of these match with documented implementation strategies including patient education, reminder systems, training, quality improvement and restructuring of workflows. This assessment was critical in starting the process of building capacity for quality improvement, evaluation, and research on screening disparities in the region.

Original Source: <https://pubmed.ncbi.nlm.nih.gov/33026682/>

APPENDIX C

PANEL CASE STUDIES

Breast Cancer:

Racial disparities persist in breast cancer, despite an overall trend of decreasing mortality from the disease in the United States. One collaborative partnership decided to take the challenge head on by developing an intervention that combined screening and navigation into a locally adapted program. By building on their individual strengths, partners, such as a university cancer center and a Federally Qualified Health Center, were able to design a truly multi-level approach that succeeded amidst widespread poverty and a large percentage of patients lacking insurance. Levels focused on within intervention components and implementation strategies included the individual, interpersonal, organizational, community and policy environments. Without guaranteed funding for coordination, there was a lack of coordinated care between the health center referring patients to be screened, and the sites performing the mammography services. Characteristics of the populations of interest include language and transportation barriers, and a lack of knowledge about the importance of screening to overall healthy living.

This collaborative partnership spent extensive time planning from the beginning, including matching resources to implementation activities, developing protocols for workflows and training staff. Some of the strategies employed for the implementation process include tailored media, identifying champions, training staff, building new clinical teams, facilitating the relay of data, building a coalition and changing policy. The RE-AIM framework was used to help evaluate whether this intervention can and should be scaled up in other similar settings.

Original Source: <https://pubmed.ncbi.nlm.nih.gov/32348565/>

APPENDIX D

COMPLETE RESOURCE LISTS

Resources and references are compiled across all units and listed alphabetically, below.
See the footnote to determine where the resource or reference was mentioned.

[A Glossary for Dissemination and Implementation Research in Health](#)¹

[A Refined Compilation of Implementation Strategies: Results from the Expert Recommendations for Implementing Change \(ERIC\) Project](#)⁵

[Academy Health Blog Post on Adaptation](#)⁴

[Action for PSE Change: Steps 2-4](#)²

[Advancing Understanding and Identifying Strategies for Sustaining Evidence-based Practices: a Review of Reviews](#)⁸

[An Introduction to Implementation Science for the Non-Specialist](#)¹

[Assessing Community Needs and Resources](#)²

[Assessing Organisational Readiness For Change](#)²

[Barriers/Facilitators Toolkit](#)²

[Be a SMARTIE: An Equity-Forward Approach to Goal Setting](#)¹

[Cancer Plan Index: A Measure for Assessing the Quality of Cancer Plans](#)⁶

[Cancer Prevention and Control Research Network](#)¹

[Cancer Prevention and Control Research Network: Accelerating the Implementation of Evidence-Based Cancer Prevention and Control Interventions](#)¹

[Center for Health Innovation and Implementation Science](#)⁸

[Choosing Implementation Strategies to Address Contextual Barriers: Diversity in Recommendations and Future Directions](#)⁵

[Collecting Information about the Problem](#)²

[Community Toolbox: Planning for Sustainability](#)⁸

[Conceptualizing De-Implementation in Cancer Care Delivery](#)⁸

[Consolidated Framework for Implementation Research Tool](#)²

[Developing Strategic and Action Plans](#)⁶

[Defining and Assessing Context in Healthcare Implementation Studies: a Systematic Review](#)²

[Dissemination and Implementation Resource Guide from the National Cancer Institute](#)¹

[Dissemination and Implementation Science for Public Health Professionals: An Overview and Call to Action](#)¹

[Effective Interventions to Facilitate the Uptake of Breast, Cervical and Colorectal Cancer Screening: an Implementation Guideline](#)⁶

[Evidence-based Cancer Control Programs](#)³

[Fostering Implementation of Health Services Research Findings Into Practice: a Consolidated Framework For Advancing Implementation Science](#)²

[FRAME: An Expanded Framework for Reporting Adaptations and Modifications to EBI](#)⁴

APPENDIX D

COMPLETE RESOURCE LISTS

Resources and references are compiled across all units and listed alphabetically, below.
See the footnote to determine where the resource or reference was mentioned.

[FRAME: Adaptation Tools](#)⁴

[Freakonomics Blog: Policymaking Is Not a Science \(Yet\)](#)¹

[Identifying Strategies to Promote Team Science in Dissemination and Implementation Research](#)¹

[IM Adapt \(Intervention Mapping\) Adapt](#)⁴

[Implementation Context Assessment Organization](#)²

[Implementation of Cancer Plans in the United States: A Review](#)⁶

[Implementation Outcomes Repository](#)⁷

[Implementation Outcomes Toolkit](#)⁷

[Implementation Science at a Glance 2019](#)¹

[Implementation Science Podcast from the Journal of Public Health Management and Practice](#)¹

[Implementation Science Should Give Higher Priority to Health Equity](#)¹

[Implementation Science: What Is It and Why Should I Care?](#)¹

[Leveraging Implementation Science to Improve Cancer Care Delivery and Patient Outcomes](#)¹

[Make it Your Own](#)⁴

[Model for Adaptation Design and Impact Guide](#)⁴

[National Cancer Institute Archive of Webinars on Implementation Science](#)¹

[National Cancer Institute: Guidelines for Choosing and Adapting Programs](#)⁴

[National Cancer Institute's Implementation Practice Tools](#)¹

[National Cancer Institute's Implementation Science Blog](#)¹

[National Cancer Institute Orientation to the Science of Dissemination and Implementation](#)¹

[National Implementation Research Network: Active Implementation Hub Module 4](#)⁶

[Northwestern's Implementation Science: An Introductory Workshop for Researchers, Clinicians, Policy Makers, and Community Members](#)¹

[Oregon Social Learning Center Stages of Implementation Tool](#)⁶

[Outcomes for Implementation Research: Conceptual Distinctions, Measurement Challenges, and Research Agenda](#)⁷

APPENDIX D

COMPLETE RESOURCE LISTS

Resources and references are compiled across all units and listed alphabetically, below.
See the footnote to determine where the resource or reference was mentioned.

- [Planning Health Promotion Programs: An Intervention Mapping Approach](#)³
- [Practitioner Engagement in Implementation Science: Initiatives and Opportunities](#)¹
- [Program Sustainability Assessment Tool](#)⁸
- [RE-AIM Tool](#)⁷
- [Resources for Stakeholder and Community Engagement](#)¹
- [Selecting a Tool to Assess Readiness](#)²
- [Strategies Toolkit](#)⁵
- [Theory at a Glance](#)⁴
- [The Center for Implementation](#)¹
- [The Clinical Guide to Preventative Services: US Preventative Services Task Force](#)³
- [The Community Guide: Community Preventative Services Task Force](#)³
- [The Meaning and Measurement of Implementation Climate](#)²
- [The Veterans Affairs Quality Enhancement Research Initiative \(QUERI\) Program](#)¹
- [Training Institute for Dissemination and Implementation in Cancer \(TIDIRC\) Facilitated Course](#)¹
- [University of California San Francisco's Implementation Science Mini Course](#)¹
- [University of California San Francisco's Implementation Science Short Course](#)¹
- [University of Iowa Hospitals and Clinics: Evidence-Based Practices](#)³
- [University of North Carolina's Active Implementation Hub](#)¹
- [Use of Evidence-based Practices and Resources Among Comprehensive Cancer Control Programs](#)³
- [Using the Program Sustainability Assessment Tool to Assess and Plan for Sustainability](#)⁸
- [Wandersman Center at the University of South Carolina](#)²
- [Washington University of St. Louis Institute of Clinical and Translational Sciences Dissemination and Implementation Research: An Introduction](#)¹
- [What Can Implementation Science Do for You? Key Success Stories from the Field](#)¹
- ["What is Implementation Science?" University of Washington's Webpage](#)¹

Resources and references, compiled across all units and listed alphabetically, are mentioned in the following units:

1. Introduction to Implementation Science
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5. Using Evidence and Theories to Inform Implementation
6. Facilitating Implementation
7. Evaluation
8. Sustainability

APPENDIX E

Resources and references are compiled across all units and listed alphabetically, below. See the footnote to determine where the resource or reference was mentioned.

Implementation Science References

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