

Translating Research into Improved Outcomes – Closing the Discovery-Delivery Gap

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NIH Health Communications Forum Natcher Auditorium – May 9, 2005





WE HAVE BEEN TALKING ABOUT DISSEMINATION FOR A VERY LONG TIME



- When the NCI was first authorized in 1937, Congress mandated that "NCI promote the useful application of research results."
- "The Cancer Control section of the National Cancer Act of 1971 is designed to ensure more rapid and effective communication of research results to medical practitioners and, as appropriate, to the general public..."
- In 1976, Don Fredrickson, then Director of NIH, addressed "the need to accelerate the transfer of new technology across the interface between the biomedical community and the health care community."





Carcinogenesis as a Multi-stage Process*

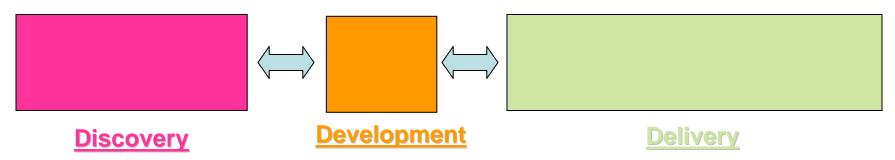


Cancer Communication as a Multi-Stage Process

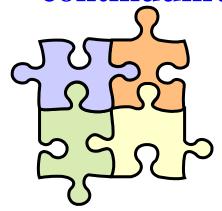


*Adapted from Shields PG, Harris CG. Principles of Carcinogenesis: Chemical. In: Devita VT, Hellman S, Rosenberg SA Cancer Principles & Practice of Oncology J.B. Lippencott Co. Philadelphia: 1993.

THE DISCOVERY-DELIVERY CONTINUUM



How do we model partnership across the continuum?



How do we increase investment in the development to delivery process?



Bridging the Gap: A Synergistic Model

Getting Evidence-Based Cancer Control Interventions Into Practice

GOAL: To increase the adoption, reach and impact of evidence-based cancer control



Science Push
Documenting,
improving,
and communicating
the intervention for
wide population use



Delivery Capacity
Building the capacity
of relevant systems to
deliver the
intervention



Market Pull/
Demand
Building a market
and demand for the
intervention



Increase the number of systems providing evidence-based cancer control Increase the number of practitioners providing evidence-based cancer control Increase the number of individuals receiving evidence-based cancer control



ULTIMATE GOAL:

Improve population health and well being

"Getting a new idea adopted, even when it has obvious advantages, is often very difficult." -- Everett Rogers, *Diffusion of Innovations*

Translating Research into Improved Outcomes (TRIO)



- Use and communicate cancer and behavioral surveillance data to identify needs, track progress and motivate action.
- Collaboratively develop tools for accessing, and promoting adoption of, evidence-based cancer control interventions.













OSupport regional and local partnerships to develop models for identifying infrastructure barriers, expanding capacity and integrating science into comprehensive cancer control planning and implementation.







Cancer Control PLANET Links to resources for comprehensive cancer control

Contact Us About This Site PLANET Sponsors

Follow 5 steps to develop a comprehensive cancer control plan or program





Find information by cancer control topic

Learn why these steps are important



Step 1) Assess program priorities

State Cancer Profiles (CDC, NCI)



 Statistics for prioritizing cancer control efforts in the nation, states, and counties



Step 2 Identify potential partners

Program Partners in Cancer Control Research Partners in Cancer Control

 Contact information for ACS, CDC and NCI program partners and research partners by state and region

Determine effectiveness of different intervention approaches

Guide to Community Preventive Services (Federally sponsored)

 Recommendations for population-based intervention approaches

Guide to Clinical Preventive Services (AHRQ)

 Task force recommendations on screening, counseling. and medication regimens

Additional Research Evidence Reviews

Step 4 Find research-tested programs and products

Research-tested Intervention Programs (NCI, SAMHSA)

 Summary statements, ratings, and products from cancer prevention and control programs tested in research

Plan and evaluate your program

Guidance for Comprehensive Cancer Control Planning (CDC)

State Plans for Comprehensive Cancer Control

Put Prevention Into Practice (AHRQ)

Guidance for linking research and practice

- Breast cancer
- Cervical cancer
- Diet / Nutrition
- Informed Decision Making
- Physical activity
- Sun safety
- Tobacco control

Coming in early 2005

Colorectal cancer

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Note: This web site is best viewed in Internet Explorer (version 5.0 or higher) or Netscape (version 7.0 or higher) at a screen resolution of 1024 by 768 or more.

We welcome your feedback on the Cancer Control PLANET and its satellite Web sites. To submit feedback, please contact us. Thank you for helping to improve this site for the cancer control community.

cancercontrolplanet.cancer.gov cancerplanet.cancer.gov ccplanet.cancer.gov



State Cancer Profiles

Dynamic views of cancer statistics for prioritizing cancer control efforts in the nation, states, and counties

Help us improve! Contact us with feedback.



Profiles Home

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Cancer Choose a Cancer Site

Comparison Tables



Rate/Trend Comparisons

set higher priority for cancer control when rates are high or rising learn more...

- by State/County prioritize cancer sites
- by Cancer prioritize states or counties in a state



Death Rates

for states or for counties in a state learn more...



Incidence Rates

for states with high quality cancer registries learn more...

Interactive Graphs and Maps



5-Year Rate Changes

in cancer mortality or incidence for all major cancer sites by user selectable criteria learn more...



Historical Trends

compare trends in cancer mortality and incidence by user selectable criteria learn more...



Latest Rates, Percents, and Counts

explore relationships across geography of mortality, incidence, demographics, or risk factors learn more...

Support Data



Screening and Risk Factors

prevalence percents by state from behavioral surveys learn more...



Peer Counties

identify counties that are comparable based on a user specified criteria learn more...



Age Distribution

male and female population sizes by age groups by user selectable criteria learn more...



New Releases

- 2000 USCS Incidence Data
- 2001 SEER Incidence Data (also released in the <u>Cancer Statistics</u> Review)
- 2001 Mortality Data

Help & About

- · About this Site
- · Quick Reference Guides
- Tutorials
- Interpret Rankings
- Data Use Restrictions
- Low Vision/Accessibility
- Note: This Web site is best viewed in <u>Internet Explorer</u> (version 5.0 or higher) or <u>Netscape</u> (version 7.0 or higher) at a <u>screen resolution</u> of 1024 by 768 or more.

Links

- . State Registry Contacts
- US Cancer Statistics: 2000 Incidence
- Resources for Cancer Control:



Cancer Control PLANET Links to resources for comprehensive cancer control

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Colorectal cancer

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Cancer Control PLANET Home

■ RTIPs Home ■ Frequently Asked Questions ■ Contact Us

RTIPs- Moving Science into Programs for People

Use this Web site to:

- Find research-tested intervention programs and products.
- Review summary information and usefulness/integrity scores for each program.
- Order or download materials to adapt for use in your own program.
- NEW RESOURCE: Obtain readability scores for products distributed to the public.

Program topics now available:



- Community-based interventions
- Physician-based curriculums
- · Cervical cancer screening promotion
 - Community outreach programs
 - Direct mail interventions
- · Colorectal cancer screening promotion
 - o Physician-based intervention programs
- Diet / Nutrition
 - Community-based social support interventions
 - Small group education interventions
 - o Fruit and vegetable behavior change programs
- Informed Decision Making
 - o Patient decision-making programs
- Physical activity
 - Physical health enhancement programs
- Sun safety
 - Sun protection awareness programs
- Tobacco control
 - o Smoking prevention programs
 - Smoking cessation programs
 - o Smoke-free environmental campaigns

New programs featured:

- · Colorectal cancer screening promotion
 - Physician-Oriented Intervention on Follow-Up in Colorectal Cancer Screening (Post date: March 2005)
- Breast cancer screening promotion
 - Maximizing Mammography Participation (Post date: February 2005)
- ★ New programs are released periodically. Please check for updates.

We welcome your feedback on the Research-tested Intervention Programs Web site. To submit feedback or a program for review, please contact us. Thank you for helping to improve this site for the cancer control community.

If you use tobacco and are trying to quit, please visit Smokefree.gov.

Looking for general information about cancer? Please visit Cancer gov or call the Cancer Information Service at 1-800-4-CANCER.











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Breast Cancer Screening Promotion Intervention Programs

Refine Your Search

Page 1 of 2 [12] Next Last

Program Title & Description (7 programs listed)	Behavioral Focus	Population Focus
I. Title: Breast Cancer Screening Among Non-adherent Women Delivery Channel: Individual-directed Intervention Purpose: Designed to address barriers to mammography screening and o identify strategies for motivating women to have regular mammograms. Dutcomes Evaluation Published: 2000	Motivation	Underscreened Women
t. Title: Empowering Physicians to Improve Breast Cancer Screening Delivery Channel: Multi-Strategy Intervention Purpose: Physician-based educational curriculum designed to increase objections of the encourage women to receive regular mammograms. Putcomes Evaluation Published: 2000	Awareness building	Primary Care Physicians
B. Title: Friend to Friend Delivery Channel: Social Network Intervention Purpose: Community-based intervention designed to increase nammography utilization among low-income women residing in public nousing. Dutcomes Evaluation Published: 1998	Awareness building	Underserved
J. Title: Increasing Breast and Cervical Cancer Screening Among Filipino American Women Delivery Channel: Small Group Education Purpose: Designed to increase breast and cervical cancer screening among Filipino women. Dutcomes Evaluation Published: 2003	Awareness building	Underserved
5. Title: Reducing Barriers to the Use of Breast Cancer Screening Delivery Channel: Individual-directed Intervention Purpose: The physician intervention aims to increase the breast cancer accreening practices of community-based physicians. Dutcomes Evaluation Published: 2001	Awareness building	Primary Care Physicians
5. Title: Targeted Mailing: Increasing Mammogram Screening Among the Elderly Delivery Channel: Individual-directed Intervention Purpose: Designed to increase awareness about low-cost mammography screening options including the Medicare benefit for diverse racial/ethnic groups of elderly women. Dutcomes Evaluation Published: 2001	Awareness building	Medicare Beneficiaries

Research-tested Intervention Programs (RTIPs)



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Breast Cancer Screening Promotion Intervention Programs

Age	Race/Ethnicity	Setting
•	-	•
Children (0-10 years)	Alaskan Native	□ Community
Adolescents (11-18 years)	American Indian	Religious establishments
Young Adults (19-39 years)	☐ Asian	■ Rural
Adults (40-65 years)	Black, not of Hispanic origin	■ Suburban
Older Adults (65+ years)	☐ Hispanic	Urban/Inner City
■ Any Ages	Pacific Islander	☐ School-based
	White, not of Hispanic origin	□ Clinical
	Any Races/Ethnicities	■ Workplace
	•	☐ Home-based
		Any Settings
		(No selection = All records) Go-> Rese

Age OR Race/Ethnicity OR Setting



RTIPs- Moving Science into Programs for People



Breast Cancer Screening Promotion Intervention Programs

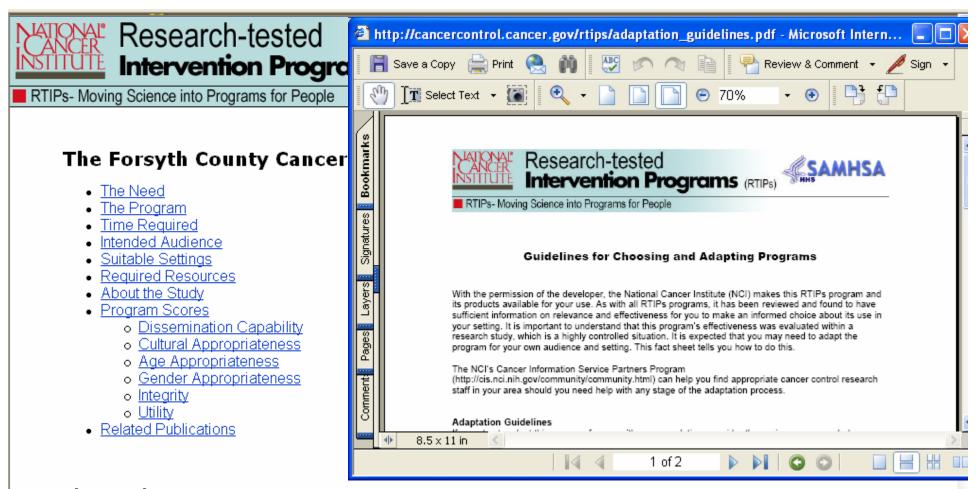
Refine Your Search

Page 2 of 2 First Previous [12]

Program Title & Description	Behavioral	Population
(7 programs listed)	Focus	Focus
7. Title: The Forsyth County Cancer Screening Project (FoCaS) Delivery Channel: Multi-Strategy Intervention Purpose: Designed to improve the beliefs, attitudes, and behaviors regarding breast and cervical screening among low-income, predominately African-American, women age 40 and older. Outcomes Evaluation Published: 1996	Awareness building	Underserved

Page 2 of 2 First Previous [12]

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The Need

Breast and cervical cancer account for one-third of new cancer cases and 18% of cancer deaths among women in the United States. Older, low-income and minority women are the most impacted by these cancers because they are less likely to be screened, which is believed to result in more late-stage cancers and lower survival rates. Underutilization of screening has been attributed to several factors including limited access and referral to preventive and therapeutic services, fear and fatalistic views of breast cancer along with distrust of the medical community, and the fact that physicians may be less likely to recommend

Program Scores (1.0 = low; 5.0 = high)

Dissemination Capability 3.0

Cultural Appropriateness 5.0

Age Appropriateness 5.0

Gender Appropriateness 5.0

Integrity 3.3

Utility 3.3



Related Publications

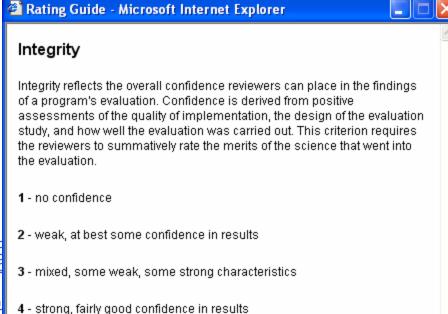
Paskett ED, Tatum C, Wilson A, Dignan M, Velez R, Use of a F Mammography, Journal of Cancer Education (1996) 11(4): 216

The National Cancer Institute Cancer Screening Consortium fo among Underserved Women. Archives of Family Medicine (19)

Paskett ED, Tatum CM, White Mack D, Hoen H, Case LD, Velo Screening Tests among Low-Income Minority Women. Cancer

Paskett ED, Tatum CM, D'Agostino R, Rushing J, Velez R, Mic Breast and Cervical Cancer Screening: Results of the Forsyth Biomarkers & Prevention (1999) 8: 453-459.

Michielutte R, Shelton B, Paskett ED, Tatum CM, Velez R. Use Screening Program. Health Education Research (2000) 15(5):



Close This Window

5 - high confidence in results, findings fully defensible

Paskett ED, Case LD, Tatum C, Velez R, Wilson A. Religiosity and Cancer Screening. Journal of Religion & Health (1999) 38(1): 39-51.



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The Forsyth County Cancer Screening Project (FoCaS)

- The Need
- The Program.
- Time Required
- Intended Audience
- Suitable Settings
- Required Resources
- · About the Study
- · Program Scores
 - Dissemination Capability
 - Cultural Appropriateness
 - Age Appropriateness
 - Gender Appropriateness
 - Integrity
 - Utility
- · Related Publications

Products Preview, download, or order free materials on CD-Rom where available

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The Forsyth County Cancer Screening Project (FoCaS): Products

ATTENTION: Program materials used in this research project may be downloaded and saved from this site. The material may be used "as is" or

may be modified and adapted for your context. Program Adaptation Guidelines are provided below

Program Adaptation Guidelines

RTIPs Program Adaptation Guidelines are made available by the National Cancer Institute (NCI) implementing a program found on the RTIPs Web site. While use of the Guidelines is not mandat adapting program materials found on this Web site. The Guidelines provide tips on how to ensure community's setting when adapting materials that were designed and tested within a controlled re-

You may either download each item individually by clicking on the links below, or skip th process by ordering a copy of all the products in the program by using the Order button the right:

FoCaS Outreach Plan

An overview of the cancer screening project.

Inreach Flyers (6 items)

Examples of inreach flyers.

Average Readability Score: 5.5

Church Program Materials (7 items)

Examples of materials used in a church setting.

Average Readability Score: 5.3

Class and Community Brochures (6 items)

Examples of brochures for use in the community.

Average Readability Score: 5.7

<u>Preview</u>

File type: PDF



1 of 6

Review & Comment 🔻 🥖 Sign 🔻

using a 56K modem.

50%

TRANSLATION



Evidence-based Knowledge



Clinical Practice

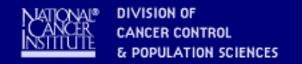
"The transfer of evidenced-based knowledge into routine or representative practice"



Glasgow, R SBM (2005) 26th Annual SBM Meeting, Symposium #22: Disseminating Behavioral Medicine Research: Making the Translational Leap.



INTEGRATION



Explicit Evidence- based Knowledge



Informed Application



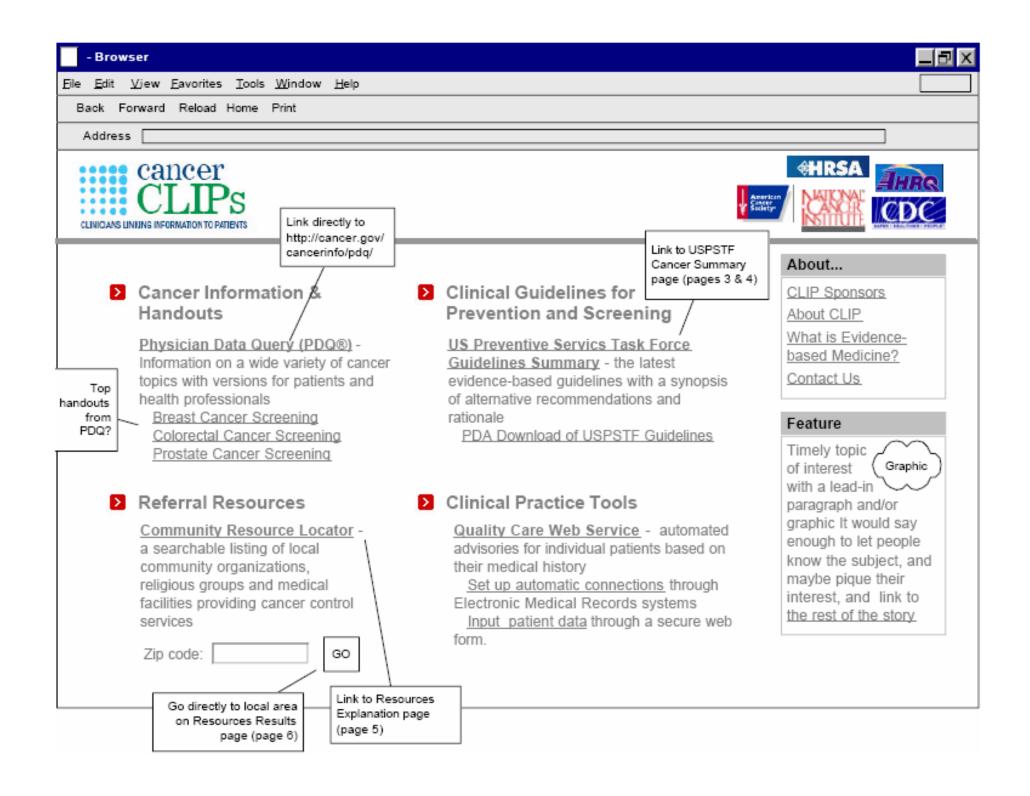
Tacit Clinical and Contextual Knowledge

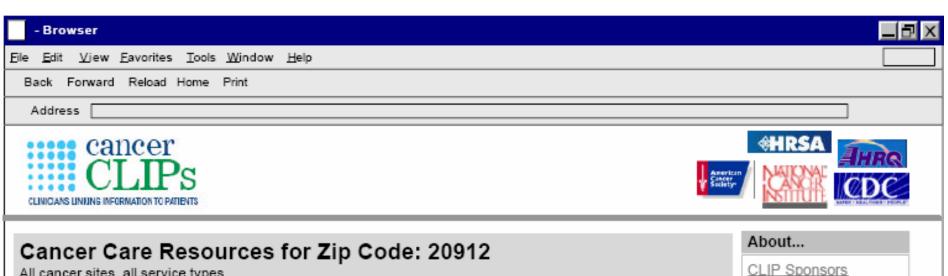
"The <u>informed</u> <u>combination</u> of evidence-based knowledge and local contextual knowledge into community applications."



Glasgow, R SBM (2005) *26th Annual SBM Meeting,* Symposium #22: *Disseminating Behavioral Medicine Research: Making the Translational Leap.*







Cancer Care Resources for Zip Code: 20912 All cancer sites, all service types. Do you want to change search parameters? Zip Code: 20912 Expand search area Type of Cancer: All sites Type of Service: All types We found the following resources in your area: Medical facilities (hospitals, hospice, clinics, etc.) 42 Physicians specializing in cancer care 122

Physicians specializing in cancer care Community organizations with volunteer opportunities Public and private programs providing assistance Advocacy groups Caregiver/family support Medication assistance

Information and research

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Feature

72

Timely topic of interest with a lead-in paragraph and/or graphic It would say enough to let people know the subject, and maybe pique their interest, and link to the rest of the story

- Browser

<u>File Edit View Eavorites Tools Window Help</u>

Back Forward Reload Home Print

Address











Quality Care Web Service

Supporting evidence-based decisions at the point of care.

Developer Support

Usage Statistics

today: 2368 inquiries

this week: 10,452 inquiries

Compatible EMR Systems

ABC Corp. - MedView

FutureMed - EMR Plus

FactsFirst - MS 2000

Supporting Systems: Current and Planned

White Paper:

Interacting with Quality Care Web Services

Technical Specs:

Data Definition and Protocol

What is Quality Care Web Service?

The Quality Care Web Service supports clinicians by making recommendations for cancer screening based on specific information about a patient, such as age, previous screening, etc. The more complete the information the more specific the recommendation. No personally identifying information is required.

Recommendations are based on guidelines from AHRQ.

Who can use it and what does it cost?

The web service is designed to communicate with internetconnected electronic medical record systems. There is no cost for use of the service.

Developers should refer to the technical information listed on the left.

What if I don't use electronic medical records?

The Quality Care Web Service supports manual input through a web form at http://qualitycare.org. Alternatively, you can submit a text file adhering to a specific format at that site.

About...

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Cancer Control & Population Sciences

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Research Diffusion & Dissemination

"Knowing is not enough, we must apply. Willing is not enough, we must do!" Goethe

- About Research Diffusion & Dissemination
 - Mission and Goals
 - Overview and Definitions
 - Collaborations
 - Staff list.
- Current Research
 - > Active Research Grant Portfolio
- Funding Opportunities
 - > Apply for Grants
 - Requests for Applications/Program Announcements
 - ➤ Career Development
 - Minority Research and Training
 - Application Forms

- 😝 Information and Resources
 - Cancer Control PLANET
- Conferences and Presentations
- Bibliography of Diffusion & Dissemination Publications
- Research Findings
 - Evidence Reviews Funded by NCI
 - Matrix of Evidence Reviews Across the Cancer Control Continuum

What's New

- Administrative Supplements for Disseminating Evidence-Based Intervention Research Products, NOT-05-016. Expiration Date: May 30, 2005.
- → Matrix of Evidence Reviews Across the Cancer Control Continuum
- Practice-based Research Networks (PBRNs) and the Translation of Research Into Practice (PAR-04-041)

Key Initiatives

→ Cancer Control PLANET



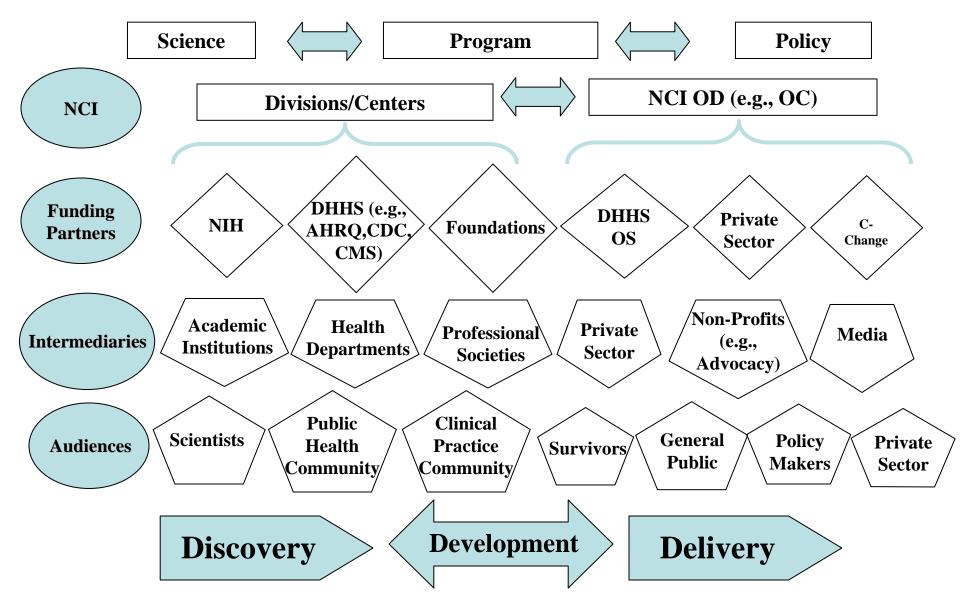
- Diffusion and Dissemination of Evidence-based Cancer Control Interventions
- Designing for Dissemination Conference
- Diffusion and Dissemination Supplements

Shortcuts

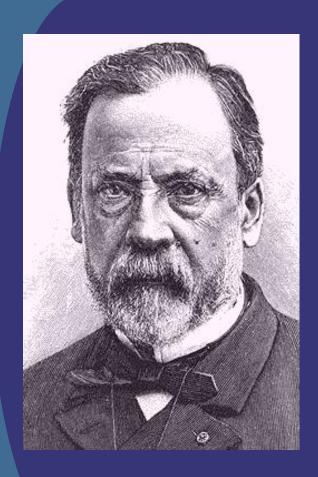
- → The Nation's Investment in Cancer Research: Plans and Priorities
- → Cancer Progress Report 2003 Update
- Weekly NCI Cancer Bulletin

http://cancercontrol.cancer.gov/d4d/

Proposed Framework For NCI Dissemination Activities



Our goal is to turn knowledge into applications that benefit people.



"To him who devotes his life to science, nothing can give more happiness than increasing the number of discoveries, but his cup of joy is full when the results of his studies immediately find practical applications." ~Louis Pasteur



