

A Center of Excellence in Cancer Communication Research

PENN CECCR: Effects of Public Information in Cancer (EPIC) 2003-2008

University of Pennsylvania

Behavior is Central

- Prevention Exercise, Diet, Smoking
 - keeping people from starting; helping them stop
- Screening Colon, Breast, Cervical, Prostate?
- Post-Diagnosis Choosing treatments,
 Survival activities



If behavior is the goal, is communication the answer?

- Alternatives:
 - -Natural Diffusion
 - -Institutional/Structural changes
 - -Medical system changes
 - -Personal education



If communication is the answer what needs doing?

Reach

Effectiveness

Efficiency



Each of our 4 CECCRs addresses one or more of these three issues.



EPIC CECCR at Penn

- 3 major research projects
 - Seeking & Scanning of Cancer Information
 - Effective Anti-Smoking Advertising
 - Effective Framing of Genetic Risks
- Theory and Methods Core
- Pilot Projects
- Training Core



Research about Reach

- The messy public communication environment
- A place to start what do people do now?
 - Scanning public media
 - Seeking specific information



What are the research questions?

- How much seeking and scanning (SSB) is there?
- Who does it and who does not?
 - Disparities
 - Personal style
 - Prevention vs. screening vs. postdiagnosis
- Does it matter for cancer decisions?



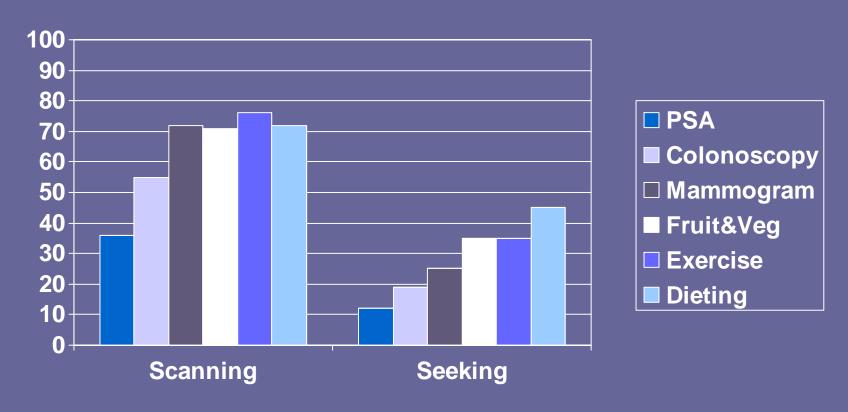
Ongoing studies

- Populations
 - Cancer Patients
 - General Population
- Focus: breast, prostate, colon cancers
- Methods
 - In-depth interview
 - Large national (40-70 year olds) or statewide (patients) samples -- prospective studies



How much SSB is there?

% seeking or scanning by behavior



5/9/2006

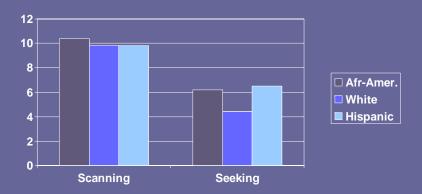


Who does it?

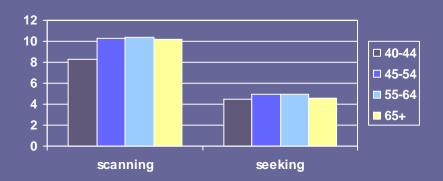
sources across behaviors by gender



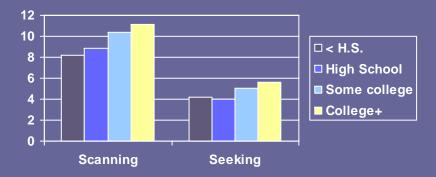
sources across behaviors by race-ethnicity



sources across behavior by age



sources across behaviors by education



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Is it related to behavior?

Relative odds of doing 6 behaviors by whether did or didn't scan or seek



EPIC CECCR Penn

Cancer Patients from 44 in-depth interviews

- Lots of MD dependence (98% rely on MD for information about treatment decisions)
- Substantial use of other media (44% use printed sources, 44% Internet, 21% broadcast media for treatment decisions)
- Information from one source drives use of others
 - 35% checked one source against another
 - 65% MD sent them to a mediated source



- We do research on reach
- Also we do research on effectiveness of messages
 - -Lerman- Anti-Smoking PSAs
 - -Cappella- Framing Genetic Risk



Effectiveness of Smoking Cessation PSAs

Research question:

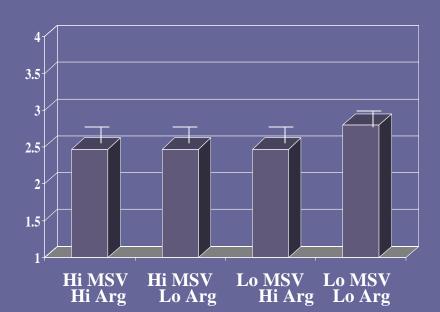
How do argument strength and message sensation value matter in effects of PSAs?

Methods:

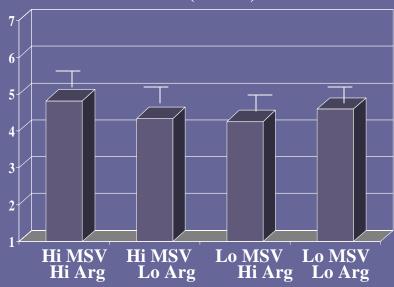
- Experiment: 160 subjects 2 x 2 design
- Multiple approaches to measuring response
 - Self report
 - Physiology
 - (and fmri, eye tracking)



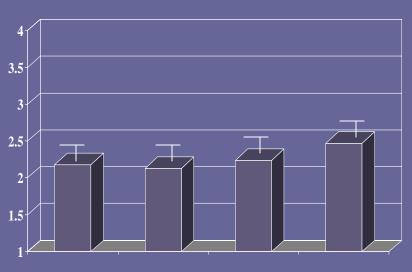
Intent Try to Quit (n=66)



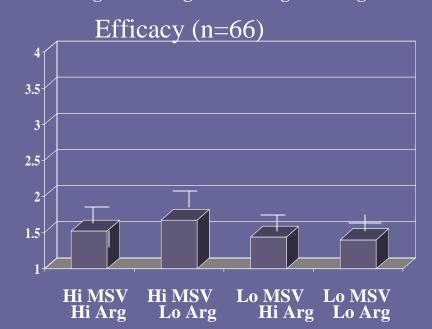
Attitudes (n=66)



Intent Will Quit (n=66)



Hi MSV Hi MSV Lo MSV Lo MSV Hi Arg Lo Arg Hi Arg Lo Arg



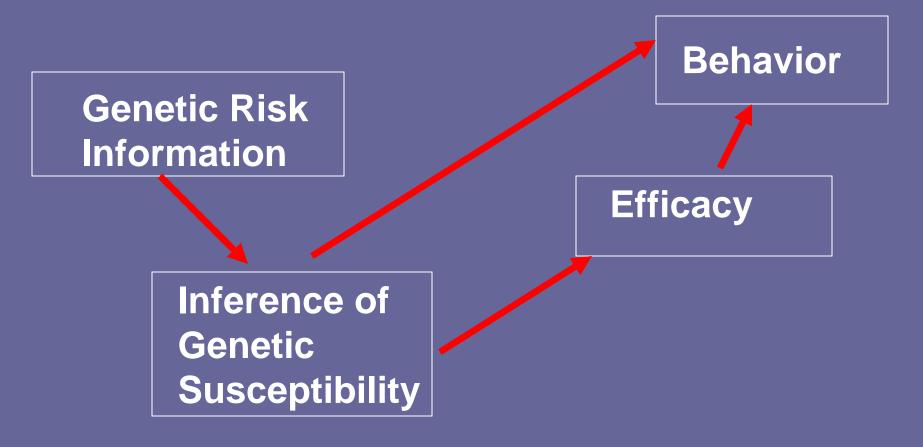


Framing Genetic Risk

 How do you inform people of their genetic risk (for addiction to tobacco) without undermining their belief that healthy behavior (stopping smoking) is within their control?



Research Questions



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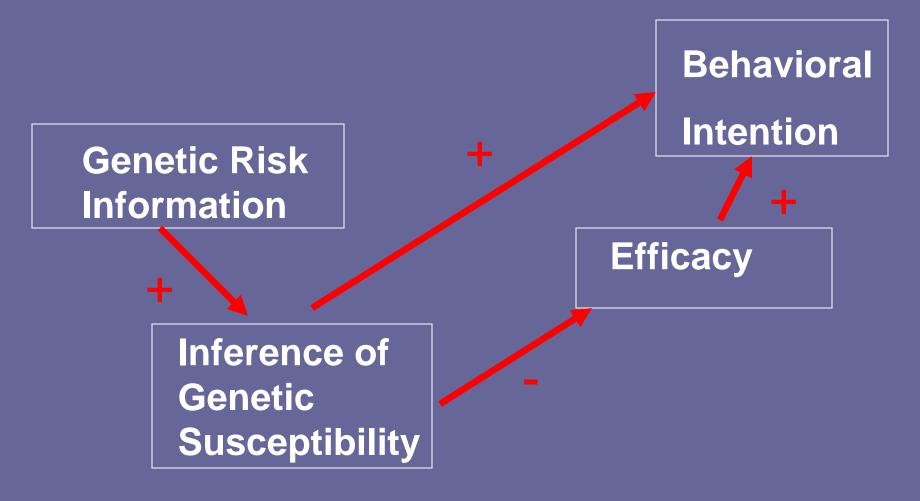
The research model

- Expose to information
 - about genetic risk
 - about efficacy to
 avoid an action with
 bad consequences

- Measure
 - Inference of genetic susceptibility
 - Belief that it is within their power to change behavior (efficacy)
 - Intention to engage in healthy behavior



Summary Model-At Risk Groups



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Next Research Phase

- How to deliver genetic information and efficacy information about the value of smoking cessation treatment-seeking so that it does not reduce intention
- Two exploratory strategies
 - Compare exemplars vs. more abstract content (personal vs. impersonal)
 - Offer genetically tailored vs. not genetically-tailored (cessation) treatment



Two legs of our research

- Reach
- Effectiveness

What about efficiency?



Efficiency and Mass Media

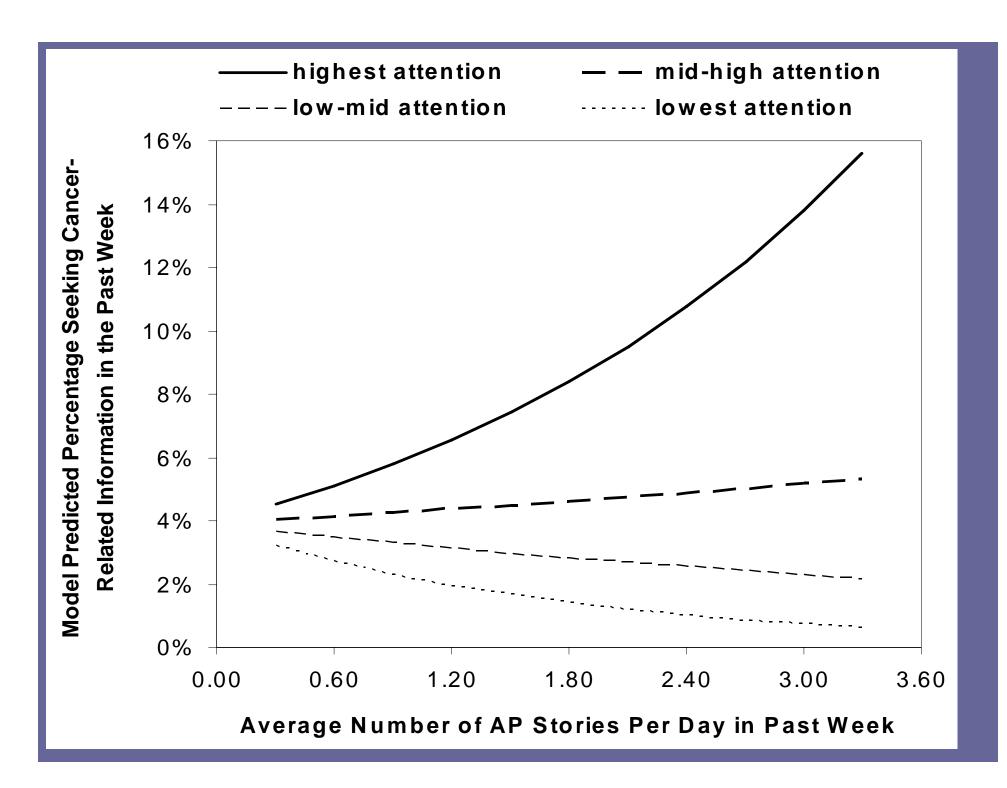
- Weaker per exposure
- But mass, repeated exposure
- Do we know how to construct efficient programs?



Two routes to efficient programs

- Large scale direct media-based education
 - How to reach; how to persuade
 - Legacy Foundation proposed cessation campaign
- Affect what the media say about cancer because the media affect what people do about cancer





The CECCR's Program

- Reach
- Effectiveness
- Efficiency
- Along with training the next generation of researchers

