Michigan Center for Health Communications Research

Presented by:

Victor J. Strecher, PhD, MPH

Principal Investigator

OUR GOAL



Cost

High efficacy





"We are truly entering a new age of discovery and a new age of therapy: an age in which we will be able to **specifically tailor** our prevention and our treatment for each individual patient."

> John E. Niederhuber Director, NCI

Number of peer-reviewed publications with the terms "tailored" and "behavior" from 1990 to 2007. (Source: PubMed)







SESSION 4

SESSION I

SESSION 2

SESSION 3

SESSION 5

SESSION 6

SPECIAL FEATURE USING YOUR PATCHES



HOW WAYNE FOUND SUPPORT

Daloris and I hosted the most incredible dinner party. There must have been over 20 people at the place that night. Everyone we spend a lot of time with was in our home. There was enough food to feed an army. The place smelled delicious. Friends were spread out everywhere. A few were in the living room talking and laughing, some in the kitchen enjoying the snacks, while others were walking up and down the hallway by the bedrooms checking out the wall of framed photos. The house had never felt so homey and full of life.

As soon as I felt like everyone was there, including my pal Rob, I took a deep breath and asked everyone to join me in the living room for an important announcement. As I stood there looking at everyone, I knew I had made the right decision to do this. With a big smile on my face, I told my friends that I had quit smoking and that this party was in celebration of my decision. I then told them that the reason they were all there was because I couldn't think of a better group of people who would help me through this process. I stopped talking. The room

< Start of Session

What Also Helped Wayne

HOME • ABOUT PROJECT QUIT • CONTACT US • HELP • MY ACCOUNT • LOG OUT



WHAT WE DO

active infremine dients graphic elements

testimonials

culture

receiver

message

Black Box

expert or user navigation

exposure

motives

goals

source

tailoring depth

Psychosocial and Communication Factors

Outcome

Receiver factors

PROJECT QUIT (Strecher)

Psychosocial and Communication Factors

- outcome exp's
 efficacy exp's
 dose schedule
- testimonials
- Source
- depth



Self-efficacy Motivation

EAT FOR LIFE (Resnicow)

Psychosocial and Communication Factors

- Ethnic identity
- Intrinsic motivation

Outcome

Fruit and vegetable consumption

Individual characteristics

Ethnic identity Motivation

GUIDE TO DECIDE (Ubel)

Psychosocial and Communication Factors

- graphic presentation
- incremental risk
- risk/benefit order
- denominator
- contextualization
- summarization

Outcome

Decision-making regarding tamoxifen and raloxifene prophilaxis

Individual characteristics

Numeracy Need for Cognition

HMO Cancer Research Network (CRN) Sites



HMO Cancer Research Network (CRN) Sites Project Quit (PI: Vic Strecher, PhD)

GHC Ctr for Health Studies

HealthPartners Research Foundation



HMO Cancer Research Network (CRN) Sites Eat for Life (PI: Ken Resnicow, PhD)



HMO Cancer Research Network (CRN) Sites Guide to Decide (PI: Peter Ubel, MD)

GHC Ctr for Health Studies



A SNEAK PEAK



- Motivational predisposition ("just tell me what to do" vs. "let me decide") moderates response to a tailored dietary intervention (Resnicow et al., 2008).
- Tailoring dietary messages to ethnic identity worked particularly well among African Americans with a strong identification as a Black American (Resnicow et al., under review).
- A more personalized message source results in greater subsequent cessation (Strecher et al., 2008b).
- The depth of tailoring in smoking cessation messages is positively related to greater subsequent cessation (Strecher et al., 2008b).
- High-tailored narrative-based success stories result in greater subsequent cessation (Strecher et al., 2008b).
- High-depth self-efficacy messages result in greater engagement with a web-based smoking cessation program (Strecher et al., 2008a).
- High-depth tailored smoking cessation messages results in greater perceptions of message relevance, which results in greater engagement with a web-based smoking cessation program, which in turn results in a higher likelihood of smoking cessation (Strecher et al., 2008a).
- A study of neuroimaging using fMRI found that high-depth tailored messages are more likely to activate neural substrates associated with self-relevance and autobiographical episodic long-term memory (Chua et al., under review).
- A study of eye-tracking found that narratives with photographs of individuals tailored to the gender, race, and age
 of the user are more persuasive than photographs unmatched or mismatched to these characteristics (Chua et al.,
 under review).

CECCR FINDINGS RISK COMMUNICATION

- Pictographs make risk statistics easier to interpret, eliminating biases caused by other design factors (Zikmund-Fisher et al, under review).
- When using pictographs to present risk and benefit information, it is best to present information using an incremental risk format (Zikmund-Fisher et al in press; Zikmund-Fisher et al. under review).
- A measure of subjective numeracy is a good predictor of health communication predictor and has similar predictive ability as an objective numeracy measure (Fagerlin et al., 2007 and Zikmund-Fisher et a.l, 2007).
- Women's lack of interest in tamoxifen is largely due to their perception of the risks of tamoxifen, particularly in that they do not view the benefits of tamoxifen are worth the risks associated with taking it (Fagerlin et al., under review).
- Women's comparative risk perceptions were more important than their objective risk in predicting responses to a decision aid about tamoxifen (e.g., their anxiety, knowledge, and behavior) (Dillard et al., under review).
- Higher comparative risk perceptions were associated with more anxiety about breast cancer, more knowledge about the risks and benefits of tamoxifen, greater intentions to take action, and three months later, engaging in behaviors consistent with an interest in taking tamoxifen (Dillard et al, under review).
- The order in which the risks and benefits of a medication are presented has a significant impact on people's risk perceptions, knowledge, and behavior. When risks are presented last, people are more worried about the side effects of the medication and perceive them as more likely. The information presented last is remembered better. When risks are presented last, people are less interested in the medication (Fagerlin et al., in preparation).

CECCR FINDINGS HEALTH CARE SETTINGS

- An electronic behavioral intervention that helps patients understand their preferences among the options of screening tests available for colorectal cancer significantly improves screening behavior (Ruffin et al., 2007).
- Practice physicians and staff desire a colorectal cancer screening behavioral improvement intervention that intuitively makes sense and blends well with their daily workflow (Jimbo, in preparation). Linking the electronic behavioral intervention to a physician visit, an invitation letter by the patient's own physician, a brochure that emphasizes the importance of the research study and the participant's potential contribution, and reminder phone calls significantly improve recruitment rates (Jimbo, in preparation).
- Linking a pedometer to an Internet-based coaching program results in a roughly one mile per day improvement in walking behavior among a group of elderly diabetics (Richardson et al., 2007).



- A Multiphase Optimization Study using a fractional factorial experimental design can efficiently and effectively screen for multiple intervention factors (Nair et al., 2008).
- A significant number of smokers can be recruited through Health Maintenance Organizations (HMOs) for web-based smoking cessation interventions (McClure et al., 2007).
- Many of those who attrit from online RCTs and health interventions do so for reasons unrelated to the intervention, and they can be brought back into the sample using a follow-up by phone or mail (Couper et al., 2007). Mail is an efficient alternative to telephone as a method of participant follow-up in webbased studies, being both cheaper and having similar measurement properties to the online surveys (Couper et al., 2007).
- Multiple imputation can be used effectively to produce complete datasets for analysis to reduce the effects of selective attrition (Couper et al., 2005)

Tailoring depth

Tailoring depth



Tailoring depth

Adjusted 6-month smoking cessation rates* by cumulated number of high-depth intervention components received. Per Protocol analysis. (n=944; OR=1.91; CI=1.18-3.11)



Number high-depth tailored components

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Preventive Medicine 8-APTR

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MJ Ahneida, F Lobelo, M Dowda

- IM Pribble, MI Trowbridge, SV Kamat,
- Limitations of the U.S. Department LT Kozlowski, KM Dollar, GA Giovino
- CL Bambra, MM Whitehead, AJ Sowden,
- Activity: A Review of Correlates T Hinkley, D Crawford, J Salmon,
- 442 Clinical Skills and Self-Efficacy After a
- Question in Health Behavior Change
- 452 Media Reviews and Reports

Pathway of tailoring depth, message relevance, number of web sections opened, and 6-month abstinence.



*p<.05 **p<.01

Relevance through stories

Tailoring Variables Used:



Welcome back Brian. As we come to the end of your Project Quit guide, we'd like to leave you with some words of advice from Scott. Like you, he was ready to quit smoking but faced many challenges. Here's his story.

Why did you decide to quit? I had several good reasons for quitting. First, I needed to save money for

a new car and knew I was throwing a lot of money away buying cigarettes. Second, I didn't like leaving the fun when I'd have to step outside to smoke at places that didn't allow smoking inside. It made me feel like an outcast. Overall, I guess I just finally had enough.

How did you prepare for the change?

Well, I had read that you have to change things that you do and how you think to stop smoking. So, about two weeks before I quit, I decided to track all my clgarettes. Every time I wanted one, I'd first write down why I wanted it and when I wanted it. Then I'd write why I wanted to quit.

Did you do anything different as your quit day approached?

Yes. I usually smoked about a pack a day, but started cutting a few out each day just to see how I'd do. I'd play a game and would try to come up with 5 things I could be doing instead of sitting there idle, potentially smoking. Once I came up with the list, I could either reward myself and have a cigarette, or just go do something from the list. I also began to skip my "dessert" cigarette before bed.

Did tracking why you smoked help?

Definitely. When I looked back over what I had tracked about my smoke breaks, what stood out the most was that I didn't always have a good reason to be smoking. I was just smoking to smoke.

Did you ask for help?

Not initially, but once my friends and family knew how much I wanted to quit, they were very helpful, giving me lots of support. We spent a lot of time at the movies, sitting in non-smoking sections of restaurants, visiting local area stores and museums I hadn't been to in a while, and talking about how hard it is to quit. I can't believe how many people listened to me about how hard it was for me to quit. ⊶ Name

🛏 Gender

+ Stage of Change

Tailoring Variables Used:



cigarette before bed.

feel better already.

about my decision.

Did these things help?

Did you ask for help?

+ Name Rhonda, as we come to the end of vour Project Quit guide, we'd like to leave you with some worth of anticing from Deb. Like you, she was + Age ready to guit smoking but faced many challenges. Here Shar start. Gender Why did you decide to quit? + Ethnicity I had several dooc reasons for quitting. First, we needed to save money to put towards a car that would actually work. Second, my husband + + Stage of Change wanted me to. Third. I didn't like leaving the fun when I'd have to step outside to smoke at places that didn't allow smoking inside. It made me feel + Marital status like an outcast. Plus, it wasn't really fair to the kids for me to tell them + Smoking status of spouse not to smoke while I did, "Do as I say, not as i do" isn't such a great example to set. Child in home **Physically active** Did you try anything else as your quit day approach + # of cigs smoked Yes. I usually smoked about a pack and a half a day, but started cutting a few out each day just to see how I'd do. I'd make a game out of it by trying to drive to work without a cigarette. Then, if I really needed it, I'd have one on the way from the parking lot to the office. I also cut back on going to the bar and parties + Barrier where I knew there would been lot of smoking. And I began to skip my "dessert" + Job status Definitely, By the time I guit, I was walking four mornings a week and beginning to + Social Support I told my cousin Jason that I was going to need some help. If I car I'm going to de something, he doesn't cut me much slack until I do It. Which is exactly what I needed. We spent a lot of time at the movies, sitting in non-smoking sections of restaurants, and hanging out in other places that wouldn't tempt me.Of course, all really needed to do was taking one good look at my kids to make me feel good

Influence of High- versus Low-Depth Narratives on 6-month smoking cessation by Education n=944; X2=4.24, p=.05.



Need for Cognition

Thinking is not my idea of fun. (Reversed)

- I only think as hard as I have to. (Reversed)
- I like to have the responsibility of handling a situation that requires a lot of thinking.
- I prefer complex to simple problems.

cessation by Need For Cognition (NFC) n=246; t=1.64, p=.10

Preliminary Data: Do Not Cite



6-month smoking cessation from the two studies:



Relevance through identity

EAT FOR LIFE (Resnicow)

Psychosocial and Communication Factors

- Ethnic identity
- Initiasic motivation

Outcome

Fruit and vegetable consumption

Individual characteristics

Ethnic identity Motivation Influence of tailoring to ethnic identity on change in Fruit and Vegetable Consumption at 3-MO Follow-Up by Baseline Ethnic Identity (EI). (interaction: p<.01)

> Afrocentric Multicultural 1.5% 3-MO Change in F&V Intake 1.0% 0.5% 0% Psychosocial + EI Psychosocial **Tailoring Condition**

PUBLICATIONS: CECCR-Related and General Cancer Communications



FUNDING: CECCR-Related and General Cancer Communications

35 extramural grants for over \$23 million (direct funding; excluding CECCR). <a>25/35 extramural grants from Developmental Project research.

Cancer Communication

CECCR



DEVELOPMENTAL PROJECTS

Design of Effective Web Data Collection for Cancer Prevention Studies Mick P. Couper, PhD

Analysis Strategies for Time-Varying Treatment Components in Cancer Prevention Susan A. Murphy, PhD

Automated Step-Count Feedback to Promote Physical Activity in Chronic Disease Caroline R. Richardson, MD

Understanding information scatter on the Internet

Stepping Up to Health: Expanding the Reach of an Automated Step Count Intervention Caroline R. Richardson, MD

Cancer Screening Adherence through Technology-Enhanced Shared Decision Making Masahito Jimbo, MD, PhD

Development of a Preference-Tailored Intervention for Increasing Colorectal Cancer Screening Sarah T. Hawley, PhD, MPH

> fMRI Study of High vs. Low Tailored Smoking Cessation Messages Hannah Faye Chua, PhD

Using Tailored Mobile Phone-Based Text Messages to Impact Weight Loss among Obese Adolescents Susan J. Woolford, MD, MPH

> Improving Risk Communication through Tailored Testimonials Amanda Dillard, PhD

An Interactive Website to Provide Tailored Education and Risk Communication to Women at High Risk of Breast Cancer J. Scott Roberts, PhD

> Eye Tracking of Tailored Graphic and Text Materials Hannah Faye Chua, PhD

Tailored Health Behavior Intervention for Hispanics Rachel E. Davis, MPH

Walking

Decrease rates of

- Heart Disease
- Diabetes
- Cancers
- DepressionObesity



Enhanced Pedometers

Dual axial accelerometers

Memory to store time-stamped step count data

Information on intensity and duration, not just total steps

• Can upload to a computer for automated complex feedback (e.g., tailoring on step-count data)







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> Eye Tracking of Tailored Graphic and Text Materials Hannah Faye Chua, PhD

Tailored Health Behavior Intervention for Hispanics Rachel E. Davis, MPH Six-month colorectal screening rates by assignment to interactive versus non-interactive website (p<.05).



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136

304

I knew I needed to do thinks to act usady for my quit day to about two weeks before I was going to quit, I told my friend Churc I was going to laye to take a break from our Thursday lunch out. The place we went was a smoking haven. Chris was great about it though and said I could pick a new non-smoking place to go instead

After I out, I did everything I could to stay away from coffee. Talk about temptations! I bought myself the freshest, tastiest orange juice to start my duy. I still needed my pick-me-up though, so I drank those new fancy cold caffeine drinks since they didn't make me want to light up.

²⁰⁰ I told my crusin that I was going to need some help. If I way I'm going to do something, she doesn't cut me much slack, which is exactly what I needed.

After way note altempts than I'd like to admit, I can proudly say that I didn't give up and have been smoke-free for over two years and counting. You know, I'm still and red at how much better I feel about myself. And the new car I eventually got sure is nice too.



There were tons of reasons why I didn't want to smoke anymore. I was getting a little worried about this cough I got that wouldn't go away. Plus, cigarettes were costing me a fortune. But the biggest reason was that I was simply tired of cigarettes ruling my day. I like to be in control, and it was pretty clear that I wasn't.

²⁰ I read somewhere that it was good to make some changes before actually quitting – to shake up my normal routines. So I gave it a try and shifted my workouts to first thing in the morning. I don't normally shoke right before or after exercising. It totally helped me delay my first smoke of the day.

Once I did quit, it was all about keeping busy and keeping something on me at all times to stop urges. Gum, lollipops, and coffee stirrers were my best friends, especially when I was driving. My glove box is still full of things I like that will keep me busy especially when I'm stuck in traffic jams.

I got lots of help from my family. I had no idea how much they wanted me to quit until I saw all the emails they sent me every day to encourage me.

It took a few tries and some help from those nicotine patches before I finally quit for good. I haven't smoked in a little over a year. I still cometimes get a craving, but I know how to talk myself out of it. The best thing of a all though – that nasty cough, went away.



The old quitting standbys like health and money didn't really matter to me. What mattered was that every time I met someone I was interested in dating, I found out they didn't smoke and wouldn't date a smoker. Sure, I could have looked for a smoker to date, but I think deep down, wanted to guit and this seemed as good a reason as any to try.

Before I quit I tried different thangs to get back on how much I was smoking. I really liked to smoke while on the phone, so that seemed ake a good place to try to cet back. I made a game out of it. I could only smoke after I mag up from a call, and I could only smoke half a cigarette. I did it. It made me see that I court talk without smoking. 19⁶⁰

After I quit though, I put most of my energy into how to deal with stress without lighting up. It was hard. I had no idea how much I depended on smoking when I was stressed. But with some deep breathing exercises and talking to my friends when I was feeling overwhelmed, I slowly learned to adapt.

When it came to support, I didn't mess around. I joined online support groups, used our company's free phone-counselor program, and asked all my friends to keep an eye on me.

I've been guit for about 4 months now. Some days are easy, some days not so much. But hey, I got myself into that mess, so I'm going to be the one to keep myself out of it. And in case you were wondering, my dating life has improved dramatically. That alone is worth it!



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Matched

Mismatched

85 participants:

Most convincing testimonial Most picture/text saccades Smaller average pupil size



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Enhancing neural activation?



Enhancing neural activation?



Neural activation among cigarette smokers exposed to high- versus lowdepth tailored smoking cessation messages. N=24. Random effects analysis. p<.005



- mPFC Brain activation area: medial prefrontral cortex
- Area known for: self-referential activities, personal relevance
- PC Brain activation area: posterior cigulate/precuneus
- Area known for: self-referential activities, memory

Neural activation among cigarette smokers exposed to high- versus lowdepth tailored smoking cessation messages. N=24. Random effects analysis. p<.005



DISSEMINATION

DISSEMINATION GOVERNMENT AND NONGOVERNMENT ORGANIZATIONS

- National Cancer Institute (NCI)
- National Institute for Mental Health (NIMH)
- National Institute on Drug Abuse (NIDA)
- Occupational Safety and Health Administration (OSHA)
- Robert Wood Johnson Foundation (RWJF)
- Joint Commission on Accreditation of Healthcare Organizations (JHACO)
- Institute of Medicine (IOM)
- Singapore National Healthcare Group
- Health Canada

DISSEMINATION CONSUMERS

- HealthMedia
- WebMD
- Hazelden Addiction Treatment and Recovery
- Staywell
- Kaiser Permanente
- eBay
- Blue Cross Blue Shield of Massachusetts
- Harvard Vanguard
- Humana
- Highmark
- Scott and White Health Plan
- Hawaii Medical Services Association
- Tufts Health Plan
- Cleveland Clinic
- Hewlett Packard
- Johnson & Johnson
- McKesson
- State of Arkansas
- State of Nevada
- UPS
- Xerox
- GlaxoSmithKline
- Biogen Idec

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 lowers cost
- towers cost

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