

Using touchscreen kiosks to overcome health literacy barriers among medically underserved Latinos

137th American Public Health Association Annual Meeting Philadelphia, PA November 7-11, 2009

Presenter Disclosures

Armando Valdez, PhD HealthPoint Institute

No relationship to disclose.

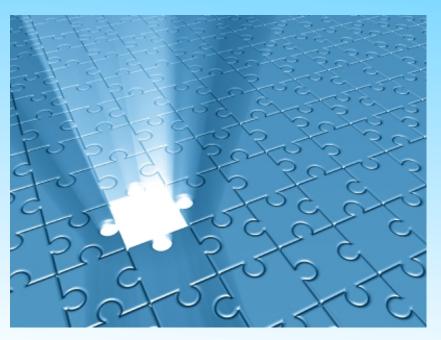
Study Team

- Armando Valdez, PhD
 - **HealthPoint Institute**
- Rene Salazar, M.D.
 - Division of General Medicine, UC San Francisco
- Marilyn Winkleby, PhD
 - Prevention Research Center, Stanford University
- Maria E. Fernandez, PhD
 - School of Public Health, University of Texas-Houston
- Susan Stewart, PhD
 - Comprehensive Cancer Center, UC San Francisco

Study funded by NCI Research Grant No. 5R44CA124277-03

HealthPoint Predicates

- Prevention focused
- Patient-driven
- Technology as an enabler
- Patient access to technology



Latino Cancer Disparities



- Lower incidence rates
- Lower screening rates
- Higher late-stage detection
- Higher mortality rates

Screening Barriers

- Knowledge & misconceptions
- Attitudes: personal, cultural
- Language: English proficiency
- Literacy skills
- Health literacy



Intervention Goals

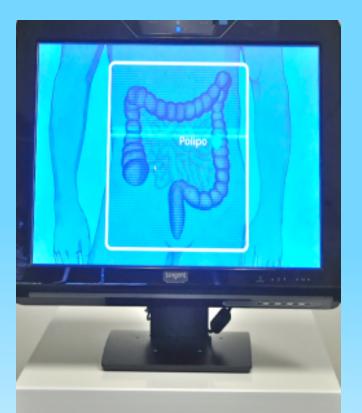


- Overcome barriers
- Increase comprehension
- Promote screening and risk reduction behavior

Design Goals



- Culturally & linguistically appropriate messages
- Cognitively accessible information
- Intuitive navigation
- Transparent technology



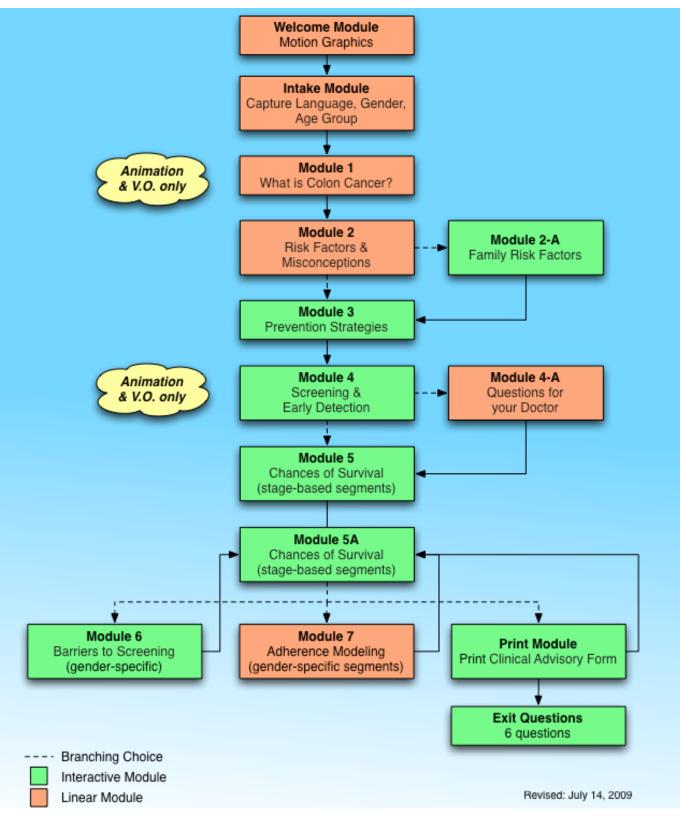
Intervention Strategy

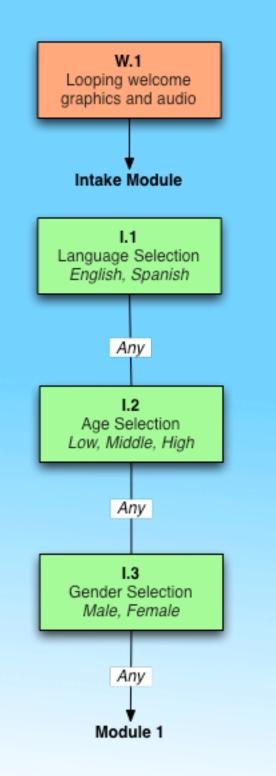
Use touchscreen kiosks to deliver colorectal cancer screening and risk reduction information

Why Interactive Multimedia Kiosks?



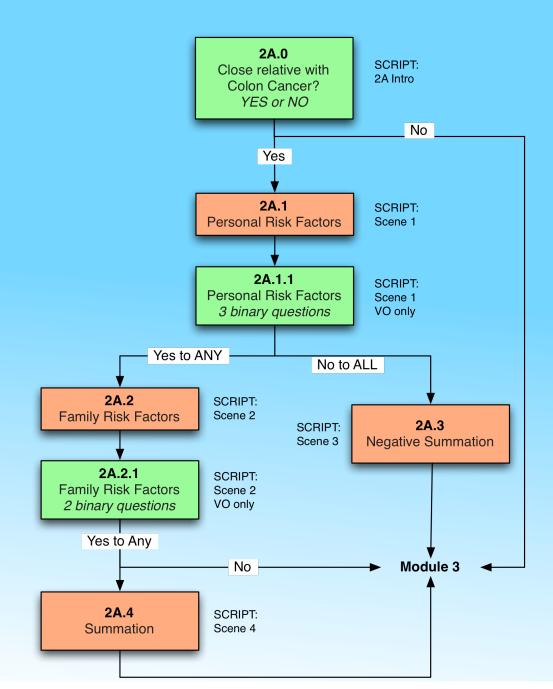
- self-paced
- individualized
- engage learners
- tailor messages
- navigation ease



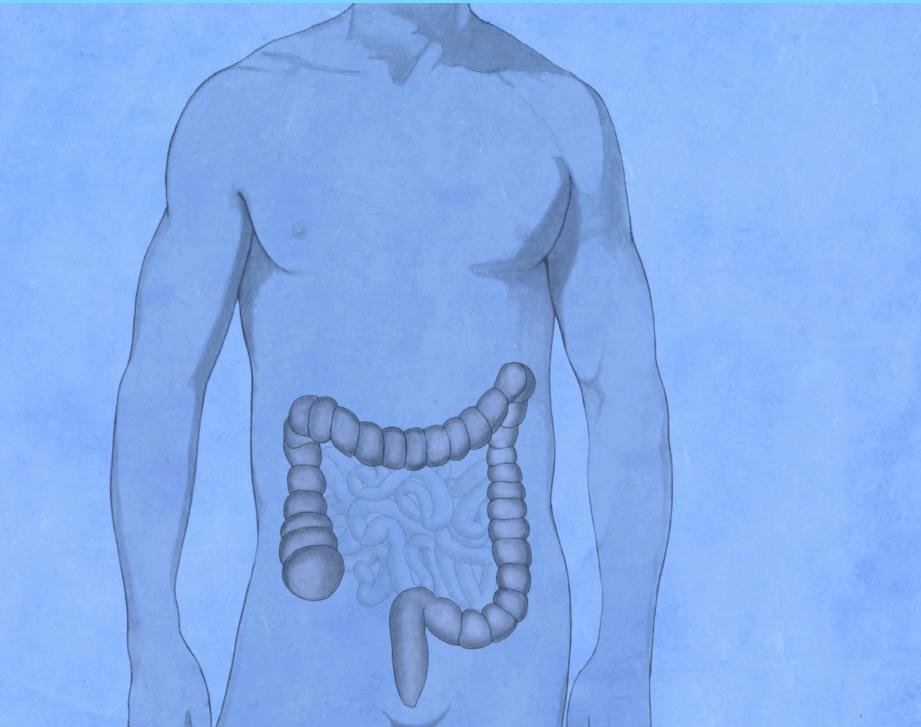


Module 2A - Family Risk Factors

Video segments and interactive binary selectors for risk factors. This module branches based on interactive selections.



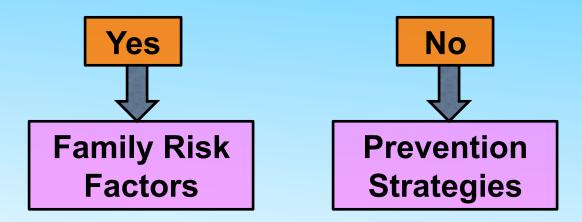
What is Colon Cancer?





Has any first-degree relative ever been diagnosed with colon cancer before the age of 60?

Does any first-degree relative have a history of precancerous colon polyps?



Efficacy Evaluations

- Randomized experimental design
- Significant knowledge gains, attitude
- change, and screening behavior
- Prior Kiosk Studies: extraordinary
- effect sizes: 50% and 51%

Presenter Contact Info:

Armando Valdez, PhD HealthPoint Institute avaldez@healthpntinst.com 650.917.6600