

Pilot-testing a Cancer 101 Education Curriculum with the **Fairbanks Native Association's** Women & Children's Center for Inner Healing Ciara Villalobos, Ellen D. S. Lopez, James Billings, Freda M. Williams



Rationale & Introduction

Cancer is the leading cause of death among Alaska Native people^{1.} Nevertheless, due to improved awareness about cancer prevention, early detection screening and advances in treatment² survival rates are rising.

Alaska Native communities describe cancer as an epidemic; wondering "Who will be next?"

Community members and their leaders have voiced their desires to gain accurate, user-friendly cancerfocused information that they can share with their family, friends, and communities,

In response, this study pilot-tested the feasibility, content, and knowledge impact of an evidence-based cancer education program developed for use with American Indian and Alaska Native peoples.

Intervention

Cancer 101: Cancer Education & Training

Program for American Indians & Alaska Natives^{3,4} Purpose: To provide a flexible, and culturally relevant cancer resource aimed at improving knowledge, attitudes, and social interaction

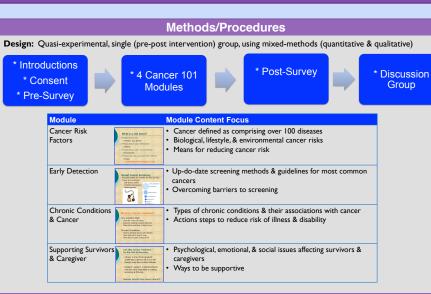
- Developed to be: Evidence- and community-based
- Program comprises 10 educational modules: Facilitator's manual
- Adaptable PowerPoint slides
- · Pre- and Post-intervention evaluation questions Modules focus on:

Cancer among Native Populations	Cancer Diagnosis & Staging
 What is Cancer? 	Basics of Cancer Treatment
 Risk Factors & Risk Reduction 	 Biospecimens & Biobanking
Role of Genes in Cancer	Chronic Disease & Cancer
 Screening & Early Detection 	 Supporting Patients & Caregivers

Setting & Recruitment

- Participants were recruited from the Fairbanks Native Association's Women & Children's Center For Inner Healing (WCCINH)⁵
- The mission of WCCINH is to assist women & their children through recovery, healing, healthy lifestyle & enhanced cultural pride





Results: Pre & Post-Intervention Knowledge

Characteristic at Baseline	% (n)	Intervention Impact on Knowledge for 4 Modules				
Gender • Female	100 (9)	Learning Module	Pre-test Correct Answers Mean (SD)	Post-test Correct Answers Mean (SD)	Change in Correct Answers Mean (SD)	
Age (years), range (mean)	23-70 (34)	Cancer Risk Factors	3.71 (.95)	3.86 (1.35)	.14 (.69)	
Race/Ethnicity • White 44.4 (4) • Alaska Native 66.7 (6)	Early Detection	3.29 (.95)	4.0 (.82)	.71 (1.11)		
• Yup'ik • Athabascan • Inupiaq	• Athabascan • 50.0 (3)	Chronic Conditions & Cancer	4.23 (.49)	4.43 (.98)	.14 (.90)	
Education • Less than high school • High school/GED	11.1 (1) 55.6 (5)	Supporting Survivors & Caregivers	3.86 (.38)	4.71 (.49)	.86 (.38)**	
Some college Income Struggle meet needs Have enough	33.3 (3) 77.8 (7) 22.2 (2)	Note: Group means comprise "correct" responses across module-specific evaluation questions (responses: Agree, Disagree, Not Sure) Analysis were conducted for 8 participants completing both pre- & post surveys Mean change was statistically significant (p<0.01, two-sided t test)				
Health Status (self-reported) • Very good/Good • Fair	77.8 (7) 22.2 (2)	 All participants experienced cancer as friend or family member Pre-test cancer knowledge was relatively high for the group Although pre-post knowledge increased for all 4 modules, only the 'Supporting Survivors & Caregivers' module showed a statistically significant improvement 				
Association with Cancer • Cancer caregiver • Family member with cancer • Friend with cancer • Interested in cancer	22.2 (7) 88.9 (8) 55.6 (5) 77.8 (7)					

Findings: Group Discussion

- How helpful or worthwhile was Cancer 101?
- Participants found the training to be helpful & an "eyeopening" experience
- All expressed interest in exploring other 101 modules Participants felt their knowledge increase was not
- reflected by the evaluation questions posed in the pre- & post surveys
 - "I know people living with cancer or that already passed. Now I feel more knowledgeable & educated."

How can we improve Cancer 101?

- Participants positively described Cancer 101 as being "fun," "interesting," "informative," & "helpful."
- Suggestions for improvement included: new topics (e.g., childhood cancers), more opportunities for participation, & presenting content in greater depth & detail

How have/will you used Cancer 101 information?

- Most participants have or planned to share Cancer 101 information with others.
- "I do plan on sharing it with family & friends"
- Several showed interest in further training to become "cancer natural helpers" - persons to whom others turn for cancer information & support.

Implications

Participants provided positive feedback about Cancer 101 Implications: Cancer 101 is feasible & user-friendly

Knowledge change from pre- to post-test was not statistically significant. Participant pre-test scores imply a ceiling effect -

- possibly attributed to overly easy & broad evaluation questions Implications: Adapt evaluation measures to reflect detail & depth of information conveyed
- Participants provided constructive feedback about Cancer 101 Implications: Continue adapting cancer 101 material to be locally relevant. Test full (10 module) curriculum with larger population of participants

Cited References

I. Kelly, et al., 2012

- 2. American Cancer Society, Facts & Figures, 2013
- 3. Hill, et al., 2010
- 4. Cancer 101 Website: http://cancer101curriculum.wordpress.com/ cancer-101-aian-version/http://www.fairbanksnative.org/wccih.html
- 5. WCCIH Website: http://www.fairbanksnative.org/wccih.html

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