Native Cancer 101 Education Modules

Mayo Clinic’s Spirit of Eagles Communities Network Program 2 [NCI1U54CA153605]

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Reviewed and Revised (“generic versions” 2011) for 3 new modules

Module 4: Role of Genes in Cancer
Module 8: Biospecimens and Biobanking
Module 9: Chronic Conditions and Cancer

Generic Version

- Designed to be presented in its entirety through an 8-hour workshop
- Each module lasting ~30-45 minutes
- Pertinent information included in the Notes Page was not on the slides
- Facilitator’s Guide was very good
- Mayo identified 4-member team plus 2 consultants to revise the modules for cultural appropriateness

Examples of Interactive Activities

- Genetic Jeopardy
- Chromosome ropes
- Strong Arm Case Study
- BRCA2 Family Roles Case Studies
- AI Family Tree
- Tic-Tac-Toe
- Bear and Coyote
- CYP450 “candies” for pharmacogenetics

Intermediate version of Module 4

Native Cancer 101 Modules

- Module 4: Role of Genes in Cancer, retained none of the generic slides
  - ~75% of slides from GENA®
- Module 8: Biospecimens and Biomarkers, retained 12 of the generic slides
  - ~50% of slides from GENA®
- Module 9: Chronic Conditions and Cancer, retained ~ 10 generic slides
  - Diabetes and weight management-NPAIHB
  - NACR’s Cancer 100 and other Path slides

Examples of Interactive Activities

- Increased long-term knowledge retention
- Genetic Jeopardy
- Chromosome ropes
- Strong Arm Case Study
- BRCA2 Family Roles Case Studies
- AI Family Tree
- Tic-Tac-Toe
- Bear and Coyote
- CYP450 “candies” for pharmacogenetics

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Native Cancer Initiatives

http://www.NatAmCancer.org; Mayo Clinic’s Spirit of Eagles Communities Network Program 2 [NCI1U54CA153605]
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Other Changes
- Added AI stories to all 3 modules
- Expanded time to 1.5 to 3 hours per module
- Reduced literacy on 95% slides to grade 5-7
- Added multiple choice items (LB used ARS)
- Added detailed notes pages (within Power Point®) rather than create Facilitator Guide
- Pilot tests
  - March 27, 2012
  - April 24-25, 2012
  - August 10, 2012

Pilot Test Findings
- 24 participants
  - 18 Females
  - 22 AIs
- Age range from 18 to 75
- 20 had less than 10 hours genetic education prior to the workshop
- 90% said the content was “new” to them
- The interactive activities increased their comfort level and knowledge

Pilot Test Findings (cont.)
- Average percent of participants who answered pre-assessment knowledge correctly = 33%
- Average percent of participants who answered post-assessment knowledge correctly = 66.36 = 33% increase
- Asked participants, “would you recommend this workshop to your friends, family or colleagues? 100% said “yes”

Examples of Cultural Modifications
- Cancer risks that “damage” the shield of protection include factors such as:
  1. Age: AAs over 50 (risk increases as you get older)
  2. Family history (16 degree relatives diagnosed with cancer)
  3. Race, such as Alaska Natives, Northern or Southern Plains higher cancer incidence for most cancers than other tribal nations

Examples of Interactive Activities

Example of Knowledge Item
Which is TRUE about BRCA2?
1. Is a large gene (many base pairs) on the 13th chromosome
2. Is responsible for ~25% of all breast cancers
3. Has no effective cancer treatments to control or manage the disease
4. Is only found in females
5. Don’t know / Not sure