Training Needs in Genomics Panel An Overview of NCHPEG

House of Lords Inquiry on Genomic Medicine

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What NCHPEG Does

Mission: To promote health professional education and access to information about advances in human genetics to improve the health care of the nation.

- Provide a central educational resource for all health professionals
- Develop tools to educate health professionals and incorporate genetics into practice

History and Structure

- Founded in 1996 by AMA, ANA, and NHGRI
- 501(c)(3) non-profit, incorporated in Maryland in 2001
- Governance provided by a 15-person elected board of directors
- Located in the Baltimore area
- Supported by public and private sector

Eclectic Membership

83 dues-paying members:

- Commercial entities
- Professional societies, government agencies, foundations/granting agencies, educational/academic institutions, medical/health-care institutions
- Consumer groups
- Individuals
- Patrons
- Benefactors

More Structure

- Staff = 5
 - 1 Executive Director
 - 2 Project Directors
 - 1 Administrative Assistant
 - 1 Intern
- Working groups
 - Content & Instruction
 - Family History
 - Membership & Diversity

Educational Development Process

- Person-intensive, iterative process
 - advisory and writing committees come to consensus, develop the conceptual framework, and outline major content areas
 - formative evaluation with multiple rounds of review and revision
 - maximizes input from content experts and endusers

Educational Content

- Four principles: our content must be
 - 1) scientifically accurate,
 - 2) clinically relevant,
 - 3) educationally effective, and
 - 4) not significantly duplicative of other efforts.
- Products
 - Web-based
 - Print
 - Face-to-face instruction
 - Video
 - Simulated patient encounters
 - Point-of-care/decision support tools

Educational Resources

- General guidance, e.g.,
 - Core competencies in genetics
 - Core principles in genetics
 - Framework for genetics and common disease
- Resources on specific topics, e.g.,
 - Genetics, race, and health care
 - Genetics and psychiatric disorders
 - Genetics and common disease
 - Discipline-specific programs

Core Competencies

What do health-care providers need to know and do?

- Knowledge
- Skills
- Attitudes
- Core principles of genetics

www.nchpeg.org

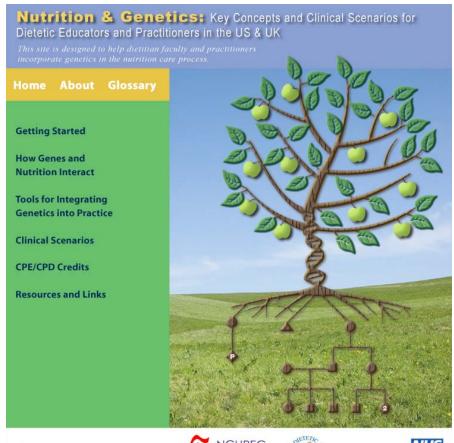
Core Competencies in Genetics
Essential for All
Health-Care Professionals



Specific Audiences

- Nurses
- Dentists and dental hygienists
- Family physicians
- Speech-language pathologists and audiologists
- Physician assistants
- Dietitians (Fall 2008)

Target Audiences: Dietitians



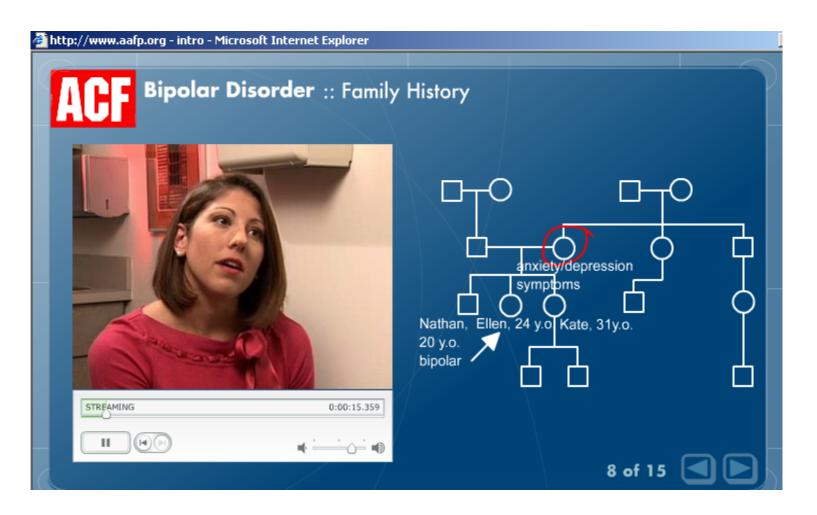




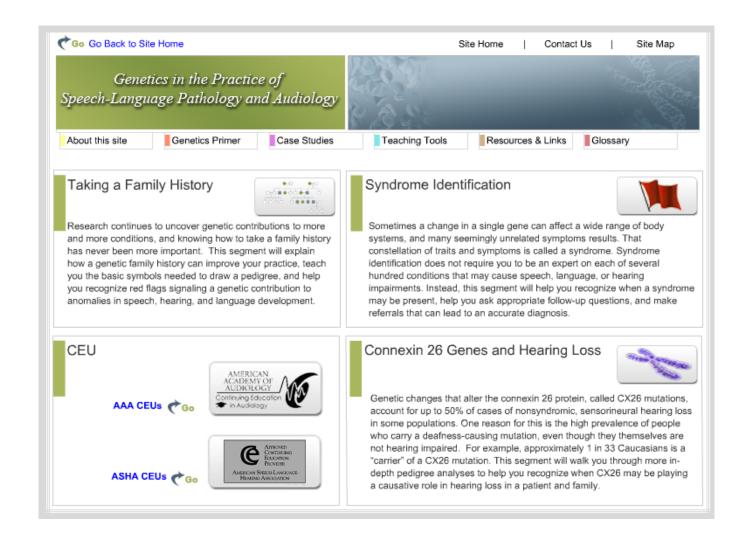




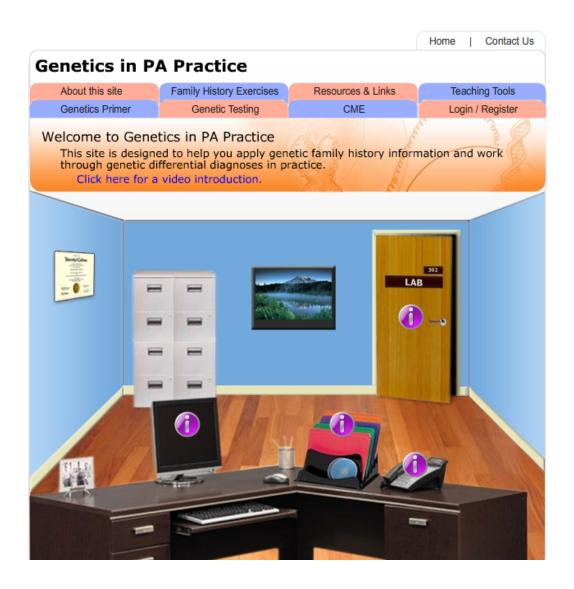
Target Audiences: Family Practice



Target Audiences: Speech-Language Pathology and Audiology



Target Audiences: Physician Assistants



Target Audiences: Nurses



Genetics is Relevant Now







Thank you for accessing the Genetics is Relevant Now: Nurses' Views and Patient Stories Module

developed by

Carol Hetteberg, MSN, CNS Jean F. Jenkins, PhD., RN, FAAN Erin K. Harvey, MS, CGC Cynthia A. Prows, MSN, CNS

Register to Process Contact Hours - To obtain 1.5 Nursing Contact Hours you must register with the above link. You will receive a printable certificate for 1.5 Nursing Contact Hours at the end of the registration process.

No processing fee is required.

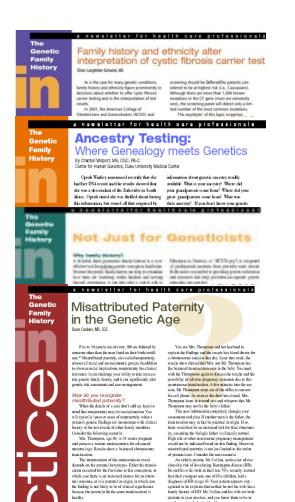


Target Subject: Genetics, Race, and Healthcare



Newsletters

bridging the GAP from bench to bedside A Newsletter for Health Professionals Courtesy of NCHPEG



On the

patients in your practice, and you know them to be in good mental and physical health. Huntington disease is an autosomal dominar condition with onset typically in the 30's or 40's. For

this reason, you would expect that either Mr. Collins or his wife would already have developed HD. Although it

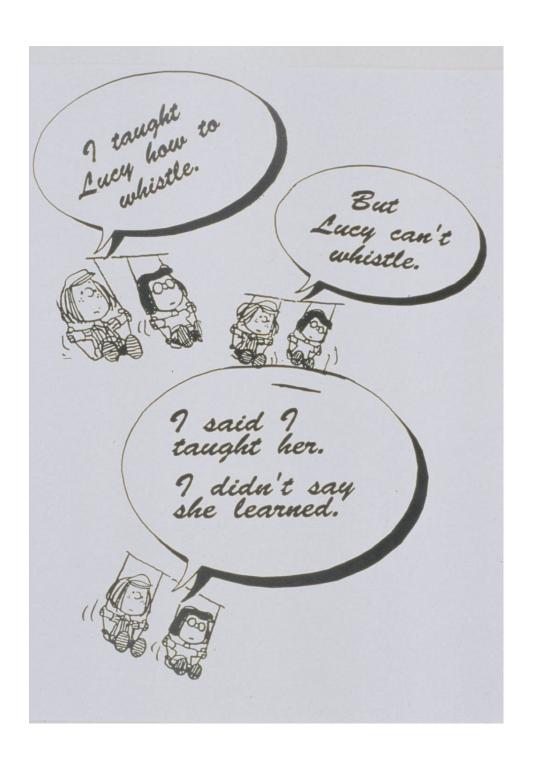
s possible that one of them has an HD gene expan n the intermediate- or reduced-penetrance range and therefore is without symptoms, you wonder if non How do you handle this sensitive issue with patients?

When possible, inform your patients in Audience: Health professionals without formal genetics

Purpose: Introduce genetics issues from different perspectives



training



Barriers to Genetics Education for Health Professionals

- Crowded curriculum
- Misconceptions about genetics
- Lack of knowledgeable faculty
- Disconnect between basic sciences and clinical experiences during training
- Failure to integrate genetics across the curriculum
- Inadequate representation of genetics on certifying exams

Some Barriers to the Integration of Genetics into Primary Care

- Dearth of genetics professionals
- Lack of knowledge about genetics among primarycare providers
- Lack of confidence
- Inadequate family histories (time is an issue)
- Lack of practice and referral guidelines

Suther, S. and Goodson, P. Barriers to the provision of genetic services by primary care physicians: A systematic review of the literature. Genetics in Medicine 5(2): 70-76, 2003.

Challenges

- Which clinical behaviors and attitudes do we want to change, and can we?
- Which content is appropriate for whom?
- What is the appropriate level of detail?
- What is the appropriate scope?
- How do we define and measure success?

Some Programs in Planning

- Genetics and colorectal cancer for VHA providers
- GeneFacts point-of-care electronic decision support for PCPs
- Genomic applications related to breast cancer for the U.S. Air Force
- Genetics for social and behavioral scientists