

September 2007

Health Resources And Services Administration Maternal And Child Health Bureau

Peter C. van Dyck, M.D., M.P.H.

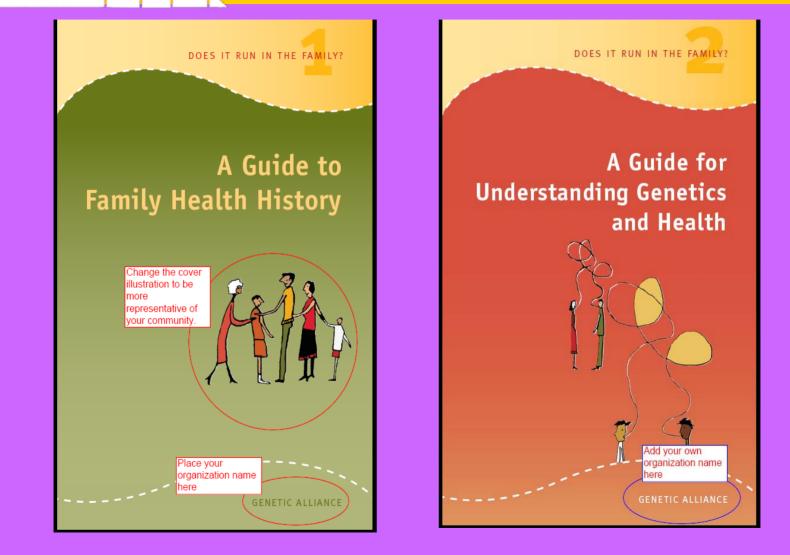




Present Initiatives for Families and General Public

- Genetic Alliance *Family Health History*
- March of Dimes Community Genetics Education Network (CGEN)
- Genetic Alliance/ University of Maryland and Genetics & Public Policy, Iowa Department of Health/ University of Iowa and Hawaii Health Department - Screening for Heritable Disorders in Children: Efficacy from a Family/Consumer Perspective
- MCHB Family to Family Health
 Information Centers

Family Health History





Family Health History

Supplemental Materials Healthcare Provider Card

Purpose: This card is for the individual to fill out and bring to their healthcare provider.

- •One side of the card concentrates on concerns about family health history.
- •On the other side, there is information for the provider on how to best use the family history to determine the patient's risk of getting a disease.
- Intermountain Health Care is currently conducting interviews with primary care providers to determine what types of information they want.

Healthcare Provider Card

Summary of family health history

I am concerned about my family history of: (check all that apply)

Health Concerns/Risk Factors	
Heart disease or heart attack	Breast cancer
□ Stroke	Ovarian cancer
Diabetes/sugar disease	Colon cancer
High blood pressure	Endometrial(uterine) cancer
High cholesterol	Other cancer:
□ Asthma	Mental health:
Hearing loss at young age	Mental retardation/developmental delay
Vision loss at young age	Alzheimer disease/dementia
Genetic conditions:	
Prenatal Concerns	
Birth defects	Miscarriage/stillbirth
Genetic conditions:	

Identify family members with each condition checked, including age of diagnosis, current age or age at death and cause of death (use extra sheets if needed)

Relationship	Condition	Age of onset	Current age	Age, cause at death
Example: Brother	High Blood Pressure	35	45	
Mother	High Blood Pressure	40		65, Stroke

Please include information about your children, your brothers and sisters, mother,(mother's side: aunts, uncles, grandparents), father,(father's side: aunts, uncles, grandparent)

Funded in part by a grant (U33 MC06836) from the Maternal and Child Health Bureau, Health Resources and Services Administration.

DOES IT RUN IN THE FAMILY

Resources for the Provider

Recognizing Family Risk (Genetic Red Flags)

- > Family history of known genetic disorder
- > Multiple affected family members with same or related disorders
- Earlier age at onset of disease than expected
 - Breast, ovarian and endometrial cancer < 50 yrs (premenopausal)
 - Colon and prostate cancer < 50 yrs
 - Stroke and noninsulin-dependent diabetes < 50 yrs
 - Dementia < 60 yrs
 - Coronary artery disease < 55 yrs males and < 65 yrs in females
- > Sudden cardiac death in a person who seemed healthy
- > Multifocal or bilateral occurrence in paired organs
- > Ethnic predisposition to certain genetic disorders

Data Collection	Ri	Risk stratification		Intervention	
	8	Strong	٠	Personalized prevention recommendations & referral for further evaluation	
Family Health History		Moderate	•	Personalized prevention recommendations	
-	-•	Weak -	•	Standard prevention recommendations	

General Guidelines for Risk Stratification

High Risk

- Premature disease in a 1st-degree relatives, (sibling, parent or child)
- 2. Premature disease in a 2nd-degree relative (CAD only)
- 3. Two affected 1st-degree relatives
- One 1st-degree relative with late or unknown disease onset and an affected 2^{sd}-degree relative with premature disease from the same lineage
- Two 2nd-degree maternal or paternal relatives with at least one having premature onset of disease
- 6. Three or more affected maternal or paternal relatives
- Presence of a "moderate risk" family history on both sides of the pedigree

Moderate risk:

- 1. One 1st-degree relative with late or unknown onset of disease
- Two 2nd-degree relatives from the same lineage with late or unknown disease onset

Average risk:

- 1. No affected relatives
- Only one affected 2nd-degree relative from one or both sides of the pedigree
- 3. No known family history
- 4. Adopted person with unknown family history

Scheuner et al., Am J Med Genet 1997; 71:315-324

Family History Website Resources

- 1. CDC-www.edc.gov/genomics/famhistory/famhist.htm
- 2. AAFP Genomics CME www.aafp.org
- 3. U.S. Surgeon General www.hhs.gov/familyhistory/
- 4. Genetic Alliance www.geneticalliance.org/familyhealthhistory
- 5. Recent Literature www.geneticalliance.org/fhh.literature

Funded in part by a grant (U33 MC06836) from the Maternal and Child Health Bureau, Health Resources and Services Administration.

DOES IT RUN IN THE FAMILY?



Community Genetics Educational Network (CGEN)

- Working with 4 communities on projects to increase genetics knowledge.
- The communities are in New York, Utah and Washington DC and include individuals representing:
 - Asian-American including Chinese, Korean and Vietnamese
 - African-American and West African immigrant communities
 - Latin American community including Dominican, Puerto Rica, South American and Afro-Caribbean
 - Mexican American and Native American



Community Genetics Educational Network (CGEN)

Charles B. Wang CHC has produced 4 bilingual brochures:

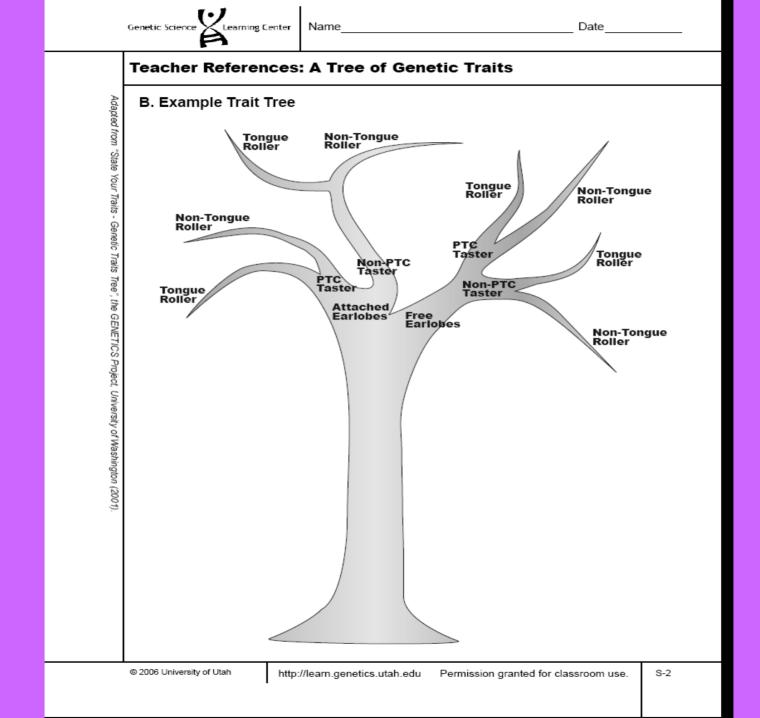
- The Benefits of Genetic Testing & Counseling For You & Your Family
- Amniocentesis: How It Can Help You & Your Baby
- Understanding Thalassemia: How It Affects You & Your Baby
- Maternal Serum-Triple Screen: A Test That Lets You Know About the Risks Your Baby May Face

Community Genetics Educational Network (CGEN)

Family Genetics Education Through School and Community Partnerships in Utah Hispanic/Latino Community Advisory Committee

Project Goals

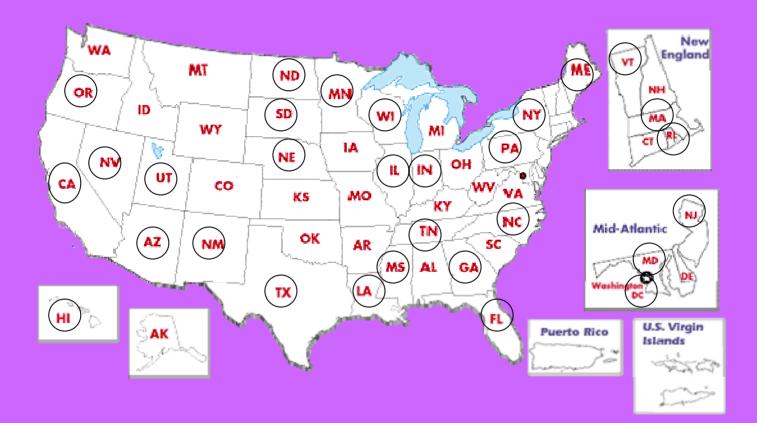
- 1. To teach students in grades 5-10 and their families about genetics. And to teach them about the role of genetics in diseases such as diabetes, cancer and heart disease.
- 2. To encourage families to fill out a family health history. This will help them learn their family's risk of getting these diseases. They also will learn what they can do to reduce their risk.



Family to Family Health Information Centers

- Family-to-Family Health Information Centers:
 - Provide information to families and providers regarding the health care needs of and resources available for CSHCN;
 - Assist families of children with special health care needs (CSHCN) make informed choices;
 - Develop partnerships with providers, managed care organizations, health care purchasers, and appropriate State agencies – models;
 - Provide training and guidance regarding the care of CSHCN; and
 - Are staffed by families with CSHCN.

Currently Funded Centers



30 Centers are funded through 2010. In all 50 states and District of Columbia by 2009 National Newborn Screening and Genetics Resource Center

Some of the NNSGRC Activities:

- A point of contact for newborn screening (NBS) accessible to all (telephone, website, listservs)
- Provide expert consultative services to NBS programs who might request it (telephone consultation, expert review teams, reports and recommendations)
- Collect and report national NBS data for program evaluation (National Newborn Screening Information System – NNSIS: cases detected, births, presumptive positive tests, unsatisfactory specimens, etc.)
- Provide input into issues of national and regional importance (meetings of experts, white papers, funds for small projects, etc.)



5 Year Grant Awards

- Heritable Disorders Program the grant program
 - 1 National Coordinating Center (NCC)
 - 7 Regional Collaboratives (RCs)
- Project Period: 06/01/07 5/31/12
- RC Base Funding of \$500,000
- RC Additional Priority Activities (\$250,000/priority project)
 - Laboratory Performance Priority Activity 1
 - LTFU Priority Activity 2
- Cooperative Agreement
- Visit the Website: <u>http://www.nccrcg.org</u>.



National Coordinating Center (NCC)*

- 1. Facilitate, coordinate and evaluate the implementation of activities carried out by the Regional Genetic and Newborn Screening Service Collaboratives (RCs).
- 2. Serve as the bridge between the RCs and MCHB; consumer organizations; health care professionals and professional organizations; researchers and research entities (including the NIH] and private entities); State, regional, and national public health organizations; and policy makers.
- 3. Work with the RCs and other partners to identify, prioritize, and address issues of importance regarding access to and utilization of genetic services at the national, State, and community levels.



RC Primary Goal

• Ensure that children with heritable disorders and their families have <u>access</u> to quality care and appropriate genetic expertise and information in the <u>context of a medical home</u> that provides accessible, <u>family-centered</u>, continuous, comprehensive, coordinated, compassionate, and culturally effective care.



RC Two Objectives

- To strengthen <u>communication and collaboration</u> among public health, individuals, families, primary care providers, and genetic medicine and other subspecialty providers.
- To quantitatively and qualitatively <u>evaluate</u> <u>outcomes of projects</u> undertaken to accomplish their goals.



Collaboration



MCH Programs NCC



RC Activities

- Developing:
 - partnerships with primary care providers, individuals and families, and public health programs.
 - practice models to facilitate coordination between genetic services providers and nongenetic health services professionals.
 - telemedicine capacity and use of other distance learning technologies.
 - education, communication, marketing and dissemination activities

• Working toward regional NBS State panel standardization and expansion, and testing harmonization.

• Establishing NBS Emergency Preparedness Plans.



•

•

•

Regional Genetics and Newborn Screening Service Collaboratives

Laboratory Quality Assurance Priority Activity 1

Undertake specific <u>NBS public health laboratory quality-improvement</u> projects such as enhancing NBS analytical laboratory test performance across the country and focusing on existing technologies currently in use in State NBS programs such as tandem mass spectrometry.

Primary outcomes should be - <u>harmonization</u> of case definitions of disorders screened in NBS programs, NBS panels, and testing methodologies and <u>decreasing the number of false positives</u>.

RC's funded:

- Region 4 Great Lakes RC
- Southeastern RC
- New England RC
- Mountain States RC



Follow-up Priority Activity 2

- Participate in <u>collaborative study and health information technology</u> <u>and information exchange activities</u> including the creation and use of regional and national information systems designed to: <u>monitor</u> <u>health outcomes</u> of infants and children identified with heritable disorders in NBS programs; <u>evaluate NBS performance</u>; and <u>evaluate treatment protocols</u>.
- Reflect collaborative activities between the <u>public health NBS</u> <u>program and the service delivery system</u>. Build on existing child health information systems activities in the region. Address issues of informed consent and family acceptance of screening and treatment.
 - RCs funded:
 - Region 4 Great Lakes RC
 - Southeastern RC
 - New England RC



VISION – For the Next 5 Years!

• All Health care and public health professionals will have genetic resources readily accessible and will understand what it means to "think genetically".

 Healthcare and public health professionals will know that their regional collaborative is the "go to place" for information about genetic resources and services within the region.



Medical Home: A Core Component of Care

Growing interest in the medical home concept for comprehensive, coordinated care.

- *Commonwealth Fund Health Care Quality Survey* When adults have health insurance coverage and a medical home defined as a health care setting that provides patients with timely, well-organized care, and enhanced access to providers, racial and ethnic disparities in access and quality are reduced or even eliminated ((2006).
 - <u>Physician Practice Connections (PPC), Patient-Centered</u> <u>Medical Home</u> (PCMH) Standards. Being developed by NCQA, with collaboration with ACP, AAFP, AAP, and AOA, to assess PCMH. (2007).



Medical Home: A Core Component of Care

- *Joint Principles of the Patient-Centered Medical Home* PCMH). The Patient-Centered Medical Home is an approach to providing comprehensive primary care for children, youth, and adults. It is a health care setting that facilitates partnerships between individual patients and their personal physicians, and when appropriate, the patient's family (AAFP,AAP, ACP, AOA, 2007)
- Medicare Medical Home Demonstration (*Tax Relief and Health Care Act of 2006—Sec. 204*

...redesign the health care delivery system to provide targeted, accessible, continuous and coordinated, family-centered care to high-need populations.



Contact Information

Peter C. van Dyck, M.D., M.P.H. pvandyck@hrsa.gov

