Family Health History: Knowing your past can protect your future.

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- What is a family health history?
- Why is it important?
- How to collect one
- Genealogy records
- Assessing your family health history
- Ethical issues
- Resources

What is a family health history?





 A family's combination of shared genes, environment, behaviors, and culture

Why is it important?

- Health problems run in families
- Helps you know what your risk may be
 - Guides screening tests and behavior change
- Family history may be a "risk factor" in all stages of life
 - "Risk factors" are things that can increase your chance of getting a health problem
 - Environment
 - Behaviors and lifestyle
 - Genetics

Risk factors

Environment

Exposures to harmful agents in food, air, and water







Risk factors

Behaviors and lifestyle

- Poor diet
- Lack of physical activity
- Weight
- Smoking



Not getting the recommended screening tests





Risk factors

Genetics

- Genes give the directions for making proteins in our bodies. Proteins make our bodies function.
- Genes are passed down from parents to children
- Some genes may not work correctly, which can cause disease



Why is it important?



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We all have a family history of something!



Why is it important?

 "Knowing your family history can save your life. The earlier you know which health conditions run in your family, the easier it is to develop prevention plans with your doctor."

- Dr. Richard H. Carmona, past U.S. Surgeon General

How to collect one

• Easy as I, 2, 3!

- Talk about it
- Write it down
- Share it
- Use the Family Health History Toolkit

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MAKE FAMILY HEALTH HISTORY A TRADITION



How to collect one



You already collect family history but...

- Only need a 3 generation pedigree
- Blood relatives are most important
- Emphasis on health and behaviors
- Lots of tools!



Coming online soon! Visit <u>www.health.utah.gov/genomics</u>





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Information you provide creates a drawing of your family tree and a chart of your family health history. Both the chart and the drawing can be printed and shared with your family members or your healthcare professional. Used in consultation with your healthcare professional, your family health history can help you review your family's health history and develop disease prevention strategies that are right for you.

New users can click on Create a Family History to begin creating a personalized family health history. Returning users can click on Load a Saved Family History to edit or update an existing personalized family health history.

Create a Family History

Load a Saved Family History

🛷 My Family Health Portrait is compatible with most browsers and operating systems. Please see our compatibility statement for more information. For users who prefer to use a downloadable software version of My Family Health Portrait, please visit the My Family Health Portrait Download page on the U.S. Surgeon General's Family History Initiative Web site.

| Additional Information | |
|---|--------------------------|
| Since My Family Health Portrait is Web-based, no additional software needs to be downloaded or installed. The health information you provide is stored only on your computer and not on a U.S. government server. You own the file and can choose what to do with it at any time. | |
| With My Family Health Portrait, you can: | |
| Edit or update your health information at anytime. Save your health information to a disk and take it with you if you are using a public machine (e.g., at the library). Decide with whom you want to share your health information. Decide how to share your health information (e.g., mail it to someone). | |
| If you do not know all the details about everyone in your family, the health information you do enter into the tool will be sufficient and useful. When used in consultation with a doctor or a healthcare professional, My Family Health Portrait can be a valuable tool for assessing your risk for disease and identifying strategies to prevent disease. | |
| My Family Health Portrait is part of the U.S. Surgeon General's Family History Initiative. For more information about the U.S. Surgeon General's Family History Initiative, please go to: | |
| <u>U.S. Surgeon General's Family History Initiative</u> <u>Frequently Asked Questions: Family History Initiative</u> | |
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CREATING YOUR FAMILY MEDICAL HISTORY

Instructions: You may have a greater risk for colorectal cancer if you have a personal or family history of certain kinds of cancer or of polyps in the colon. To help you determine your risk, complete this family medical history. For each blood relation, mark in the box if they have had any of the following medical problems and their age at diagnosis: colorectal cancer, inflammatory bowel disease (Crohn's or colitis) or stomach or bowel problems, breast, uterine or endometrial cancer, or colorectal polyps (adenomas).





Preventable. Treatable. Beatable! Founded by the Cancer Research Foundation of America March is National Colorectal Cancer Awareness Month, founded by the Cancer Research Foundation of America in collaboration with many partner organizations. Talk with your health care provider about colorectal cancer. Colorectal cancer is preventable, and is easy to treat and often curable when detected early. Ask your health care provider what kind of screening test you should have and when.

To learn more, call 1-877-35-COLON or visit our Web site at www.preventcancer.org/colorectal



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Pfizer for Women



Welcome to Generational Health

Understanding your family's health history can help you understand your own health.

This Generational Health Web site features an important tool that can help you trace your family's medical history and become better informed about health conditions that may affect your own health and that of your loved ones.

The family health tree you build at this site can go back as far as 2 generations. As you identify some of the medical problems your relatives may have faced, you will have the opportunity to learn more about these diseases and conditions that may be hereditary, including potential causes and the role that heredity may play in their development. Suggestions of what can be done to focus on prevention and early detection are also featured.

You may wish to talk to members of your family and share this information with them. Since this information is also valuable to your physician, you may choose to provide him or her with a copy of your family health tree. You may print out your tree, customized for your doctor, your family, or your personal use.

Ready to begin? Create a New Family Tree

Already created your tree? Return to Saved Tree

This Web site was developed as a health information service by Pfizer Women's Health. This site is an anonymous service provided solely for educational purposes. No information about you is collected by this program. You are the only person who can view the results, which are not tracked.



The health information contained herein is for educational purposes only and is not intended to replace individualized medical advice and discussions with a healthcare provider. All decisions regarding patient care must be made by a healthcare provider, who will consider the unique characteristics of the patient. The information on this site is intended for US residents only.

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Generational Health is a resource developed by Pfizer Women's Health.



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How to collect one



Focus on "close" family members

- Parents, brothers and sisters, children (1st degree relatives)
- Grandparents, aunts and uncles, nieces and nephews, grandchildren, step siblings (2nd degree relatives)
- Cousins and the "greats" (3rd degree relatives)

How to collect one



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- Health problems of family members
- Age when problem started or was diagnosed
- Age and cause of death
- Lifestyle habits
- Ethnic background

Medical pedigree





For more information on how to draw a medical pedigree, visit the National Society of Genetic Counselors website

www.nsgc.org/consumer/familytree

Genealogy records

- Your family health history may be "hidden" in your genealogy records!
 - Remember best source is LIVING family members

Look in...

- Death and birth certificates
- Medical examiner records
- Cemetery and funeral home records
- Obituaries
- United States Census records
- Military records, journals, hospital/insurance forms

Death certificates



Death certificates

- The Family History Library has death records
- Some states have death indexes
- To find:
 - Check the Family History Library Catalog or ask the front desk for help
 - Look by state, county, and sometimes city
 - Search death indexes online

Funeral home records

- Required by law to keep records, even if ownership changes
- Funeral homes help in recording death certificates and obituaries

To find:

- www.funeralnet.com
- National Yellow Book of Funeral Directors
- Call and tell them what you need

Obituaries

Cause of death may not be included

Look for donations and thank you's

- "In lieu of flowers, please make a donation to the Arthritis Foundation"
- "The family would like to thank the Alzheimer's Clinic"

To find:

- Newspapers in public libraries or state archives
- Internet search ("obituary index")

United States Census (1850-1930)

Health clues such as:

- Gaps between children
- Occupation ("mad hatter" was someone who worked with chemicals that affected the brain)
- Different spouse or single parent
- Nieces, nephews, or grandchildren living with family (possible early death in family)
- Institutionalized (hospitals, schools)
 - Inmates
 - Wards or patients

*Look in the Family Health History Toolkit for how to find census records

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St. Francis Convent, 1880



Old medical terms

- You may have to decode old medical terms
- Examples:
 - "dropsy" = congestive heart failure
 - "apoplexy" = stroke
 - "toxemia of pregnancy" = eclampsia

Resources

- Cyndi's List under "Medical and Medicine" <u>http://www.cyndislist.com/medical.htm#Diseases</u>
- Parker, Jimmy. "Medical Terminology", Genealogical Journal Vol. 28 No. 3 (2000).



- Step I: Write down your family health history for Ist and 2nd degree relatives
 - Use the worksheet,
 Health Family Tree, or
 draw a medical pedigree



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 Step 2a: Review your family health history

- Summarize what you learned
- Step 2b: Apply risk categories



| Condition | No.1st degree affected relatives (parents, siblings, children) | No. 2 nd degree affected relatives (grandparents, aunts and uncles) | Age of onset | Age and cause of death |
|--------------------------|---|---|-------------------------------|--------------------------------|
| Cancer (specify type) | 0 | 1 (breast) | 62 | 70, stroke |
| Diabetes | 1 | 0 | 45 | Living |
| Heart Disease | 1 (high cholesterol) | 3 (cong. heart failure, HCOM, arrhythmia) | 60's 50's 47 | Living 70, stroke Living |
| High Blood Pressure | | 2 | unk | Living |
| Stroke | | 1 | 69 | 70, stroke |
| Other | 2 (depression) | 2 (depression) | 40's, 16, 30's, 30's | All living |

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- You may have a higher risk if...
 - Early age of onset
 - 2 or more close family members have the same disease
 - 2 or more generations with the same disease
 - Disease occurs in less often affected sex (breast cancer in males)
 - Related conditions (heart disease and diabetes)

Step 2b: Risk categories

<u>High Risk</u>

- 1. Early disease in a 1st degree relative.
- 2. Early disease in a 2nd degree relative (coronary artery disease).
- 3. Two affected 1st degree relatives.
- One 1st degree relative with late or unknown disease onset and an affected 2nd degree relative with early disease from the same side of the family.
- 5. Two affected 2nd degree relatives with at least one having early onset disease.
- 6. Three or more affected family members.
- Presence of a "moderate risk" family history on both sides of the family.

Moderate Risk

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

Average Risk

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

What is "early onset"?



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Step 2b: Risk categories

| Condition | Risk Level | What risk criteria are met? |
|---------------------|----------------------|--|
| Cancer (breast) | Average | #2 Only one affected grandparent from one or both sides of family. |
| Diabetes | Moderate | #2 One parent with late or unknown onset of disease. (Overweight) |
| Heart Disease | Moderate – High | #1 Early disease (cholesterol) in parent. #2 Two grandparents from the same side of the family with late or unknown disease onset. #6 Three or more affected relatives. (Grandpa smoked heavily) |
| High Blood Pressure | Moderate | #2 Two uncles from the same side of the family with late or unknown disease onset. |
| Stroke | Average | #2 Only one affected grandparent from one or both sides of family. |
| Other (depression) | High (depression) | #3 Two affected parents, children, or siblings. #1 Early disease in a parent, child, or sibling. #5 Two affected grandparents, aunts/uncles with at least one having early disease onset. |



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- Step 3: Make a plan for better health
 - What are your health habits now?
 - What can you do better?
 - Are there prevention guidelines?







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

You can't change your genes...

But you can change your behaviors!

- Talk to your doctor or see a specialist
- Get early or more frequent screening tests
- Eat healthy
- Physical activity
- Stop smoking







Ethical issues



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- Quality of information
- Privacy issues
 - What if you have a genetic predisposition?
 Do you tell your family? Do they want to know?

Ethical issues

Fear of discrimination

- Health insurance
- Life insurance
- Employment

Legislation

- Utah Genetic Testing
 Privacy Act
- HIPAA, ADA
- No federal law!
- Few documented cases of genetic discrimination



Resources – websites

- Utah Department of Health
 - <u>www.health.utah.gov/genomics</u>
- Geneweaver software
 - <u>www.geneweaveronline.com</u>
- CDC Family History
 - www.cdc.gov/genomics/public/famhistMain.htm
- U.S. Surgeon General Family History Initiative
 - www.hhs.gov/familyhistory/
- Genetic Alliance
 - <u>www.geneticalliance.org</u>

Resources – books

- Shawker, Thomas H. Unlocking your genetic history: A step-by-step guide to discovering your family's medical and genetic heritage. Rutledge Hill Press, 2004.
- Daus, Carol. Past Imperfect: How tracing your family medical history can save your life. Santa Monica Press, 1999.
- Bennett, Robin L. The practical guide to the genetic family history. Wiley-Liss, Inc., 1999.
- Milunsky, Aubrey. Your genetic destiny. Perseys Publishing, 2001.
- Genealogical Journal Vol. 28 No. 3 (2000).
- Genealogical Journal Vol. 30 No. 2 (2002).

Tell us your story!



 Contest runs Nov. I, 2006 – Jan.8, 2007

Tell us:

- How you learned about your family health history
- What impact this has had on you and your family
- Any format (written, pictures, video, etc)
- Entry guidelines available at

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