

## Public Policy Challenges in Genetics

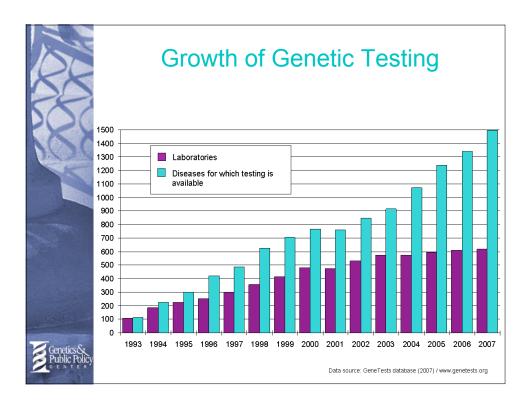
Kathy Hudson, Ph.D.
Genetics & Public Policy Center
Johns Hopkins University

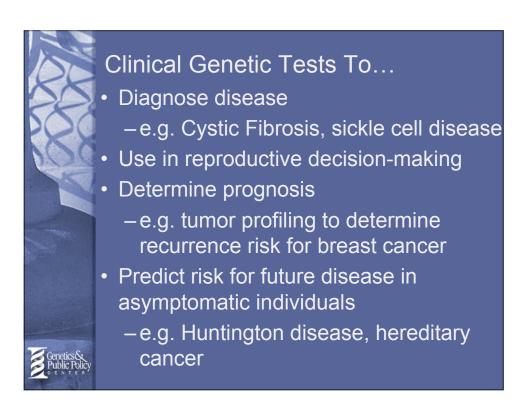
www.DNApolicy.org



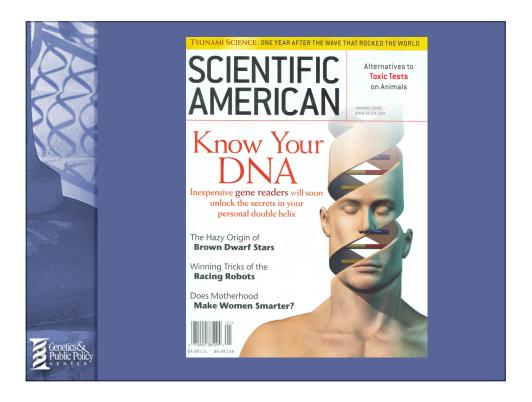
Key Prerequisites for Genetic Medicine

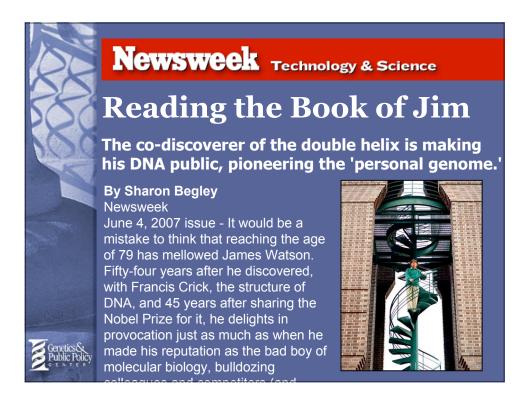
- 1. Robust and responsive research enterprise
- 2. Safe and effective tests and interventions
- 3. Improved guidelines development and adoption
- 4. Safeguards for genetic information

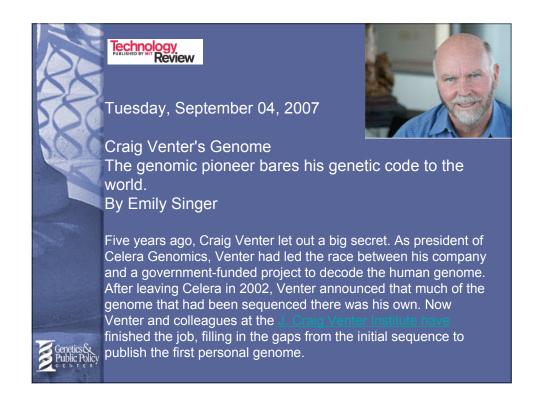




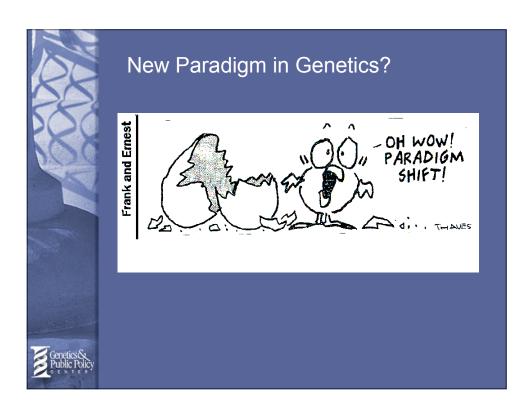


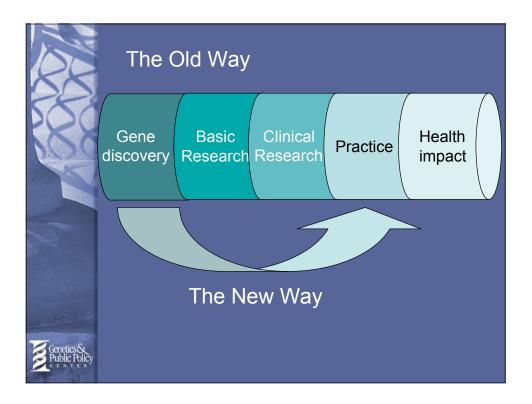
















#### What is DTC?

- (1)Direct access to testing by consumers without health care provider intermediary; OR
- (2) Advertising about the availability of a genetic test to promote consumer demand. Test itself requires health care provider to order test and communicate results.
- ➤ Internet has been primary means of dissemination in both instances

#### Companies offering health-related tests DTC

Updated 4/2/08

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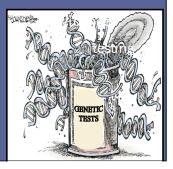




# Genetics & Public Policy of English Test

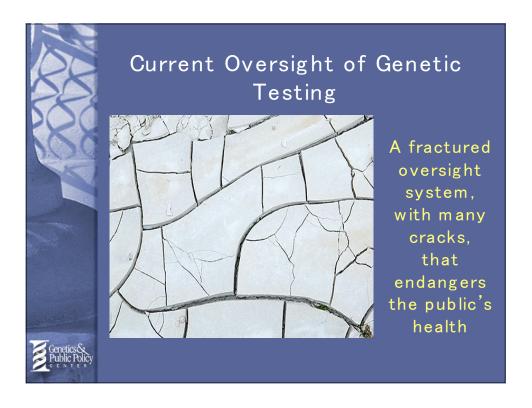
#### Concerns About DTC Marketing

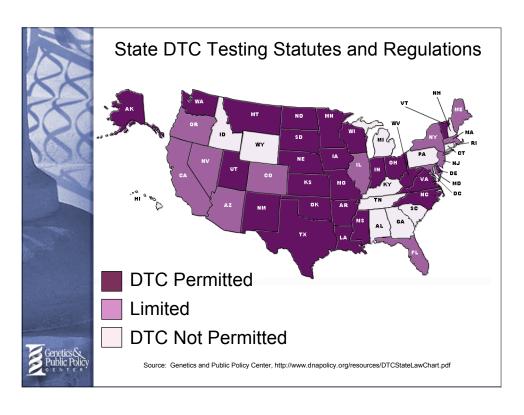
- · Companies may not adequately protect privacy of genetic information
- · Test results may be used for discriminatory purposes
- · The tests that are offered may not be valid
- The laboratories that perform the tests may not be competent
- · Test claims unsupported by
- · No legal barrier to surreptitious of another

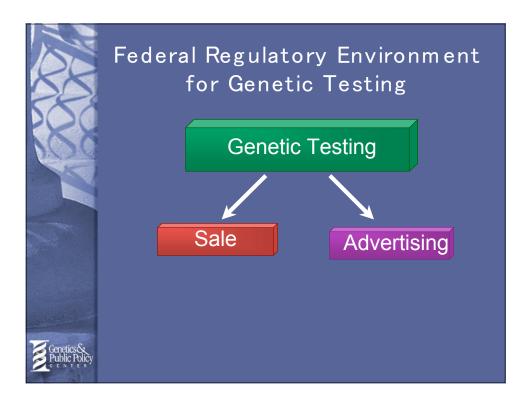


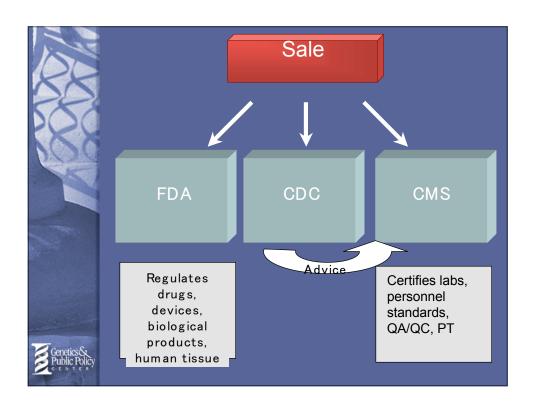


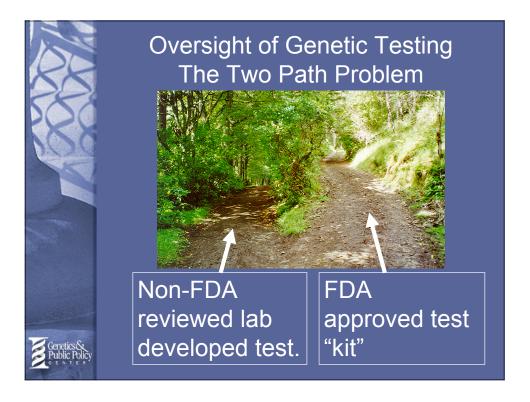
- Genetic tests have great potential to improve health.
- Quality genetic testing depends on quality oversight.
- Oversight of genetic testing is grossly inadequate.

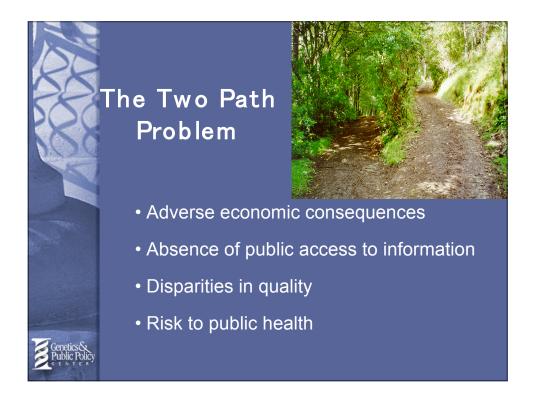














# Regulation of Clinical Laboratories in the United States

- Clinical laboratories are regulated under the Clinical Laboratory Improvement Amendments of 1988 (CLIA)
- Law intended to "assure consistent performance by laboratories ... of valid and reliable laboratory examinations"
- Standards must address:
  - -quality assurance/quality control
  - -record keeping
  - -facilities and equipment
  - -personnel
  - -proficiency testing (\*)



# Regulation of Clinical Laboratories in the United States

- · Proficiency testing (PT)
  - "a method of externally validating the level of a laboratory's performance"
  - · Congress stated that PT "should be the central element in determining a laboratory's competence, as it provides a measure of actual performance on laboratory test procedures rather than only gauging the potential for accurate outcomes."



# Regulation of Clinical Laboratories in the United States

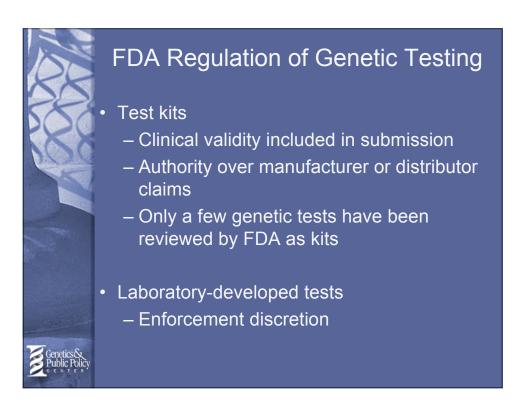
- CLIA applies to labs doing clinical genetic tests
- No mandate to perform proficiency testing
- Voluntary proficiency testing (through CAP) for 25 molecular genetic tests.
- · CLIA does not evaluate clinical validity
- · No public access to information
- No reach of CLIA to claims and labels

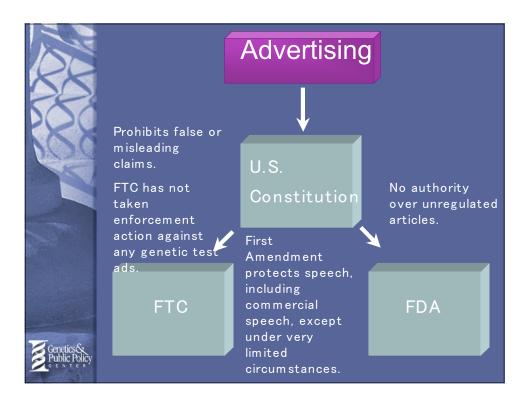


#### CMS Timeline of Inaction

- 1997 NIH/DOE Task Force Recommendations
- 2000 SACGT Recommendations
- 2000 CDC issues Notice of Intent
- April 2006 CMS puts genetic testing regulatory enhancement on regulatory agenda
- September 2006 CMS announces it will not issue revised regulations
- September 2006 GPPC fles "petition for rulemaking" with CMS along with Genetic Alliance and Public Citizen
- August 2007 CMS denies petition, citing cost and other concerns











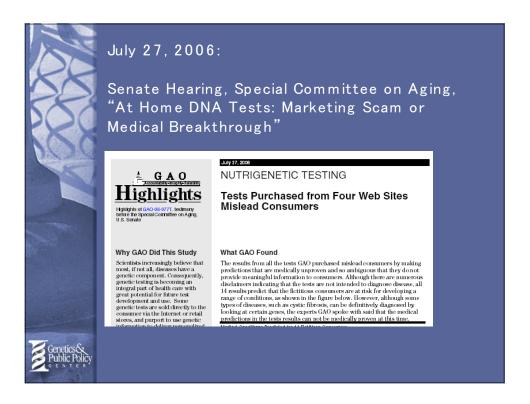
## Problems with Genetic Testing Oversight

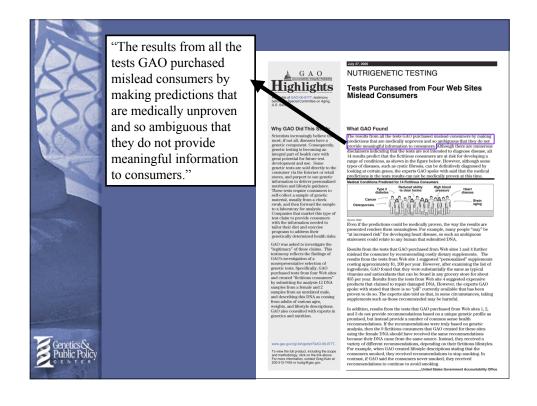
- No PT requirement under CLIA
- · No review of clinical validity
- · No HHS authority over false claims
- "Two paths" to market are disincentive to seek FDA review; lack of regulatory "level playing feld"

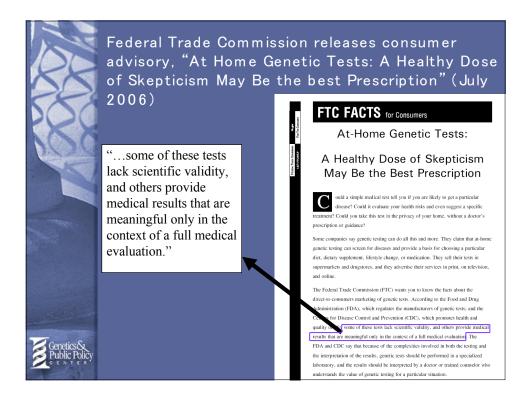


#### Recent Policy Activity

- · Government
- · Professional Societies
- · Industry











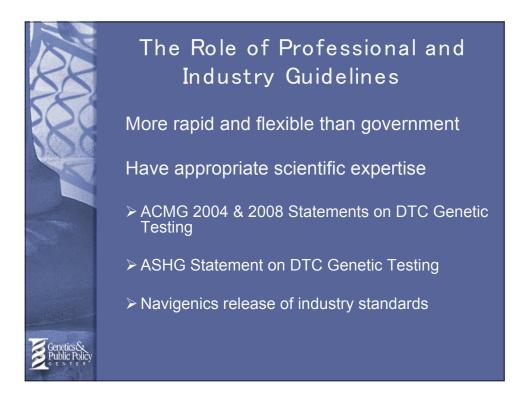
#### Secretary's Advisory Committee on Genetics Health and Society (SACGHS)

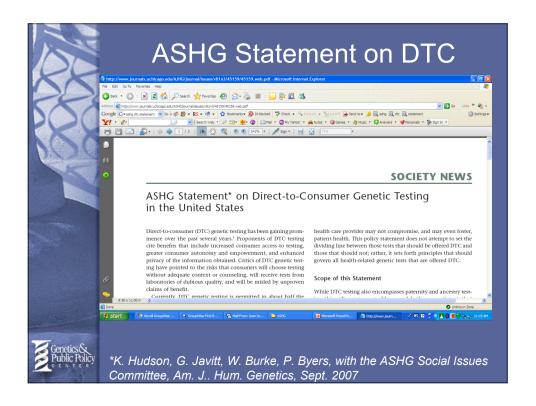
- Secretary requested recommendations on genetic testing oversight
- Public draft release Nov. 2007
- Final recommendations February 2008
- Will be 4<sup>th</sup> set of recommendations on the issue

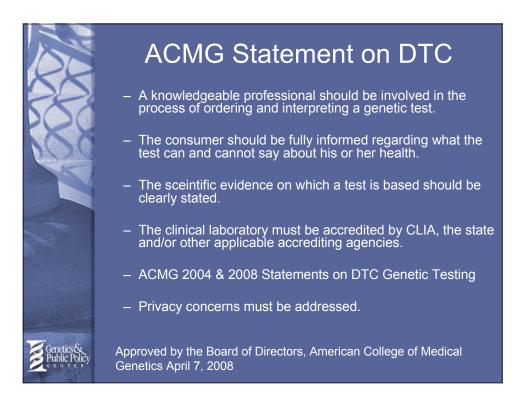


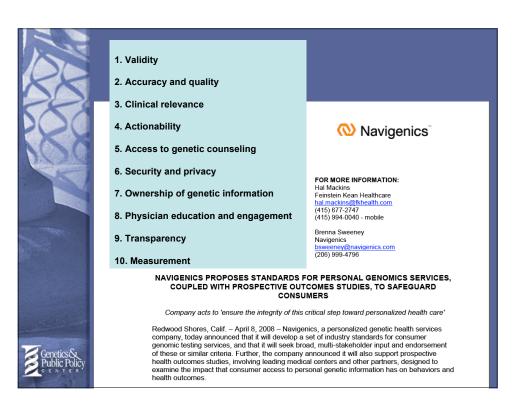
#### **SACGHS** Recommendations

- · PT requirement for all non-waived tests
- Development of a mandatory registry for lab-developed tests
- Risk-based oversight of lab-developed tests by FDA
- Enhancement of enforcement actions for non-compliance
- Clinical utility assessment
- Creation of electronic health records











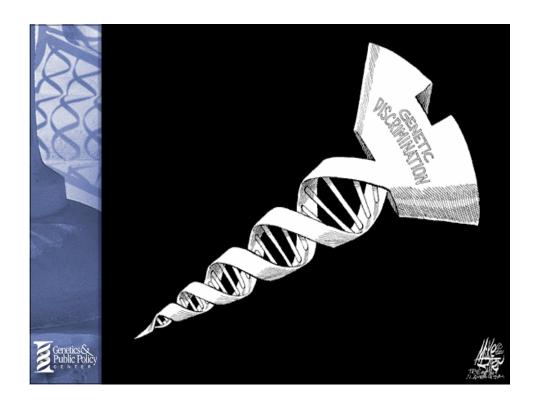
## Goals of Genetic Testing Oversight

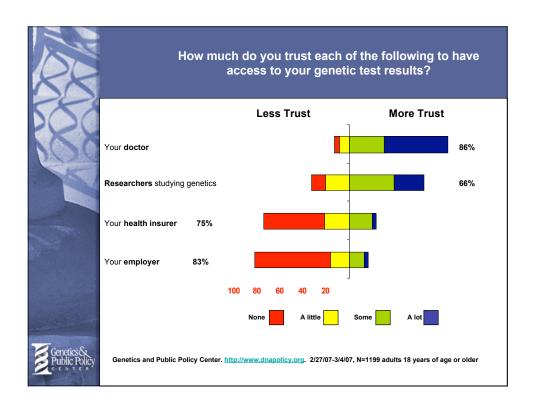
- Appropriate laboratory oversight
- Level regulatory playing field that incentivizes development of validated tests
- Test regulation based on risk
- Mechanism for evidence development and translation into clinical practice
- Truthful, non-misleading claims about test benefits and limitations



#### Key Prerequisites for Genetic Medicine

- 1. Robust and responsive research enterprise
- 2. Safe and effective tests and interventions
- 3. Improved guidelines development and adoption
- 4. Safeguards for genetic information







# Health Insurance Portability and Accountability Act of 1996 (HIPAA)

- Group health plans may not establish eligibility, enrollment, continuation or premium requirements based on health status-related factors.
- Factors include medical conditions, claims experience, receipt of health care, medical history, genetic information, evidence of insurability, disability





#### Americans with Disabilities Act

Provides protections against discrimination to those with:

- 1) a physical or mental impairment that substantially limits one or more of the major life activities of such individual;
- 2) a record of such an impairment; or
- 3) being regarded as having such an impairment.



## Clinton Signs Executive Order Banning Genetic Discrimination in the Federal Workplace



"By signing this executive order, my goal is to set an example and pose a challenge for every employer in America, because I believe no employer should ever review your genetic records along with your resume." February 8, 2000

### The Genetic Information Nondiscrimination Act

Prohibits group and individual health insurers from using genetic information in setting eligibility or premium or contribution amounts.

Prohibits health insurers from requesting or requiring that a person undergo a genetic test.

Prohibits employers from using genetic information in making employment decisions such as hiring, firing, job assignments, and promotions.

Prohibits employers from requesting, requiring, or purchasing genetic information about an employee or family member.





