



Agency for Healthcare Research and Quality

Advancing Excellence in Health Care

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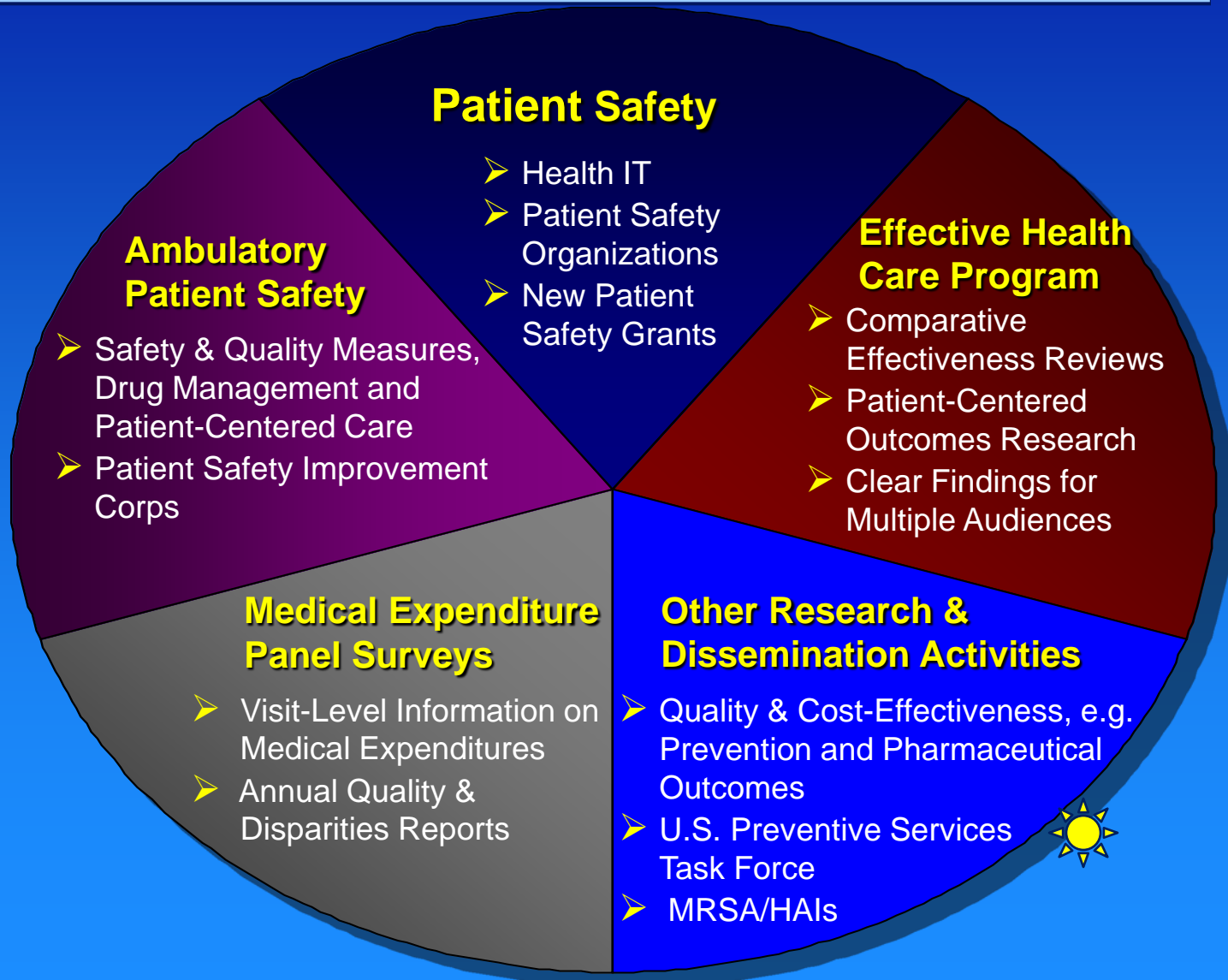
Genetics Testing

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Director

Agency for Healthcare Research and Quality

AHRQ Priorities





Efficacy vs. Effectiveness

Clinical Trials	Clinical Practice
Efficacy	Effectiveness
Single diagnosis	High-risk patients with co-morbid conditions
Drug vs. placebo	Multiple drug choices and alternatives
Exclusions of user groups e.g., elderly	Use is generally unlimited
Clinical endpoints, biomarkers	Death, disability, QoL
Genetics/biology	Sociology/psychology
"Artificial" settings	Real world clinics



Support for U.S. Preventive Services Task Force (USPSTF)



- Evidence-Based Practice Centers support *The Guide to Clinical Preventive Services: Recommendations of the U.S. Preventive Services Task Force*
- Prepare systematic evidence reviews and evidence summaries for topics under consideration by Task Force



CT Colonography is Replacing Other Methods

- “Two types of studies to assess the sensitivity of colonoscopy – tandem colonoscopy studies, in which the same patient is studied twice, and studies comparing colonoscopy and CT colonography – show that colonoscopy may miss even polyps larger than 10 mm and colorectal cancer.”
- “Recent clinical studies of CT colonography suggest that this screening method may be at least as sensitive as optical colonoscopy at identifying colorectal cancer and large adenomas in the community setting.”

Angelina Jolie's Decision



- She carries a defective BRCA1 gene that puts her at high risk of developing breast and ovarian cancer
 - Her mother had breast cancer and died of ovarian cancer
 - Her maternal grandmother had ovarian cancer



Challenges in Genomic Medicine

- Clarify benefits and harms of genetic tests
 - Urgent need for electronic infrastructure to support CDS, assess real world penetrance
 - Collaboration with guideline and quality measure developers
- Clarify value of adding genomic test(s) to existing diagnostic tests / strategies
 - Assure appropriate use
 - Feedback from care delivery to science



Cancer Registries (ARRA)

- \$20 million contract to support 15 specialized cancer registries to include genetic information, prognostic biomarkers, etc.
 - Colorectal: assessment of uptake and outcomes for KRAS, including survival differences
 - Breast: appropriateness of HER testing
 - CML: appropriate use of BCR-ABL gene, survival and outcome differences
 - Important insights re standard processes**



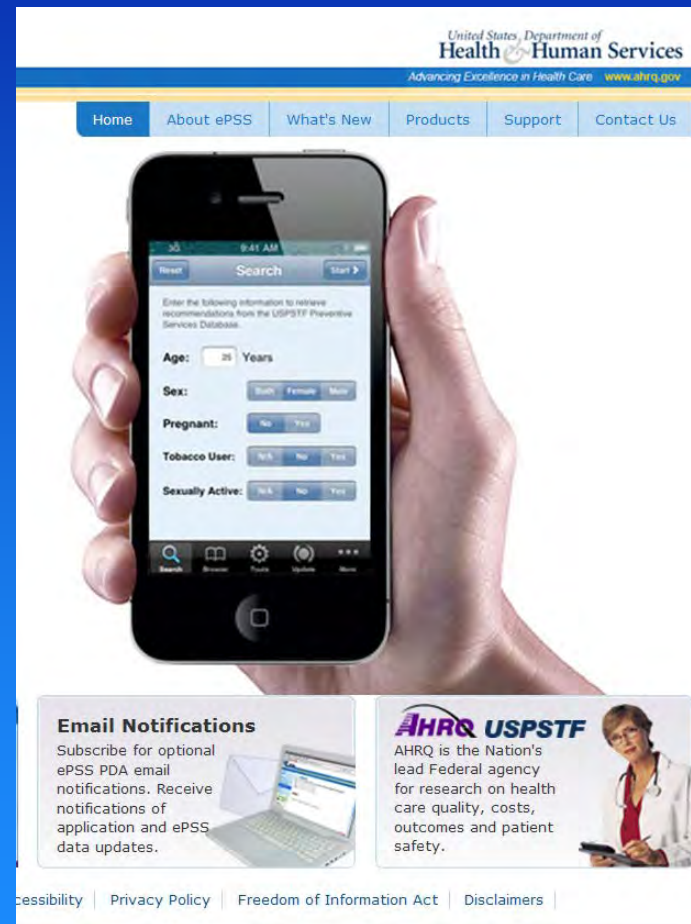
How AHRQ Can Help

- Leverage expertise and investments in patient-centered outcomes research (PCOR)
 - Methods for analyzing observational data, strong focus on patient registries, dx tests
 - Unique mandate to disseminate PCOR*
 - MEPS as potential platform for public attitudes, understanding
 - Emerging experience with CDC re challenges for incorporating genetic information in cancer registries

Knowledge Transfer Case Study: Anaconda Internal Medicine (Montana)

■ U.S. Preventive Services Task Force/electronic Preventive Services Selector (ePSS)

- Incorporated ePSS into curriculum so students in clinical rotations learn to use preventive care recommendations
- Incorporated USPSTF recommendations into office-based technology system (DocSite)



United States Department of Health & Human Services
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Search

Enter the following information to retrieve recommendations from the USPSTF Preventive Services Database:

Age: Years

Sex:

Pregnant:

Tobacco User:

Sexually Active:

Search Notifications

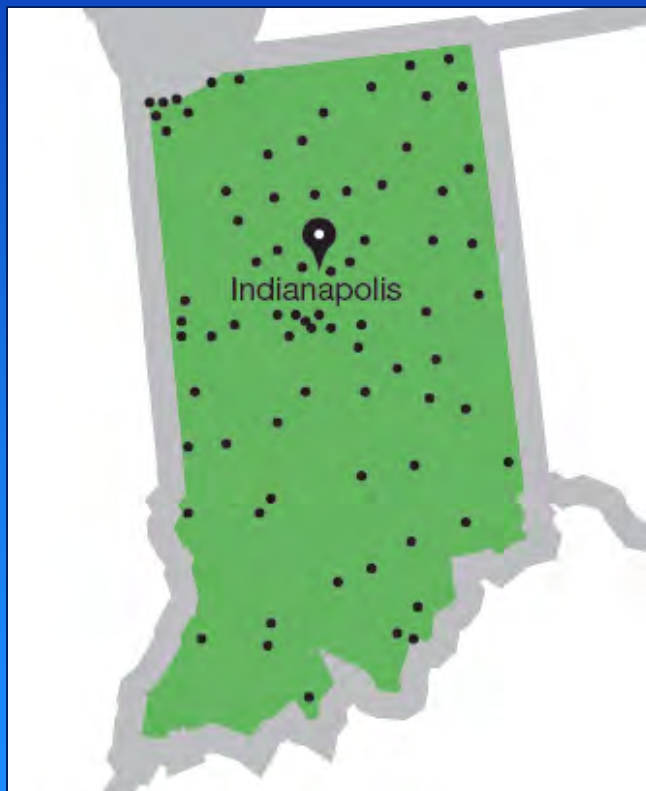
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AHRQ USPSTF
AHRQ is the Nation's lead Federal agency for research on health care quality, costs, outcomes and patient safety.

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Multidisciplinary Science: EDM Forum Research Networks

*11 Projects Using Electronic Health Research for
CER/PCOR and QI, including:*



- The Indiana PROSPECT (Prospective Outcomes Systems using Patient-specific Electronic data to Compare Tests and Therapies)
- Builds on the Indiana Network for Patient Care, the nation's largest HIE
- Enhancement for capturing richer data include incorporating genomic and other higher throughput results



AHRQ Health Care Innovations Exchange

Web-based repository of cutting-edge service innovations

The screenshot shows the AHRQ Health Care Innovations Exchange website. At the top, there is a navigation bar with links for 'What's New', 'About', 'Site Map', 'FAQ', 'Help', 'Submit Innovation', and 'Contact Us'. Below this is a search bar with a 'Search' button and a 'Search Help' link. A secondary navigation bar contains links for 'Home', 'Innovations & QualityTools', 'Browse by Subject', 'Events & Podcasts', 'Videos', 'Learn & Network', 'Articles & Guides', 'Stay Connected', 'Funding Opportunities', and 'My Innovations'. A 'Share' button is also present. The main content area is titled 'Genomics' and shows a list of results under the 'QualityTools' category. The results include 'Genomic Tests for Ovarian Cancer Detection and Management, Evidence Report/Technology Assessment' (dated 7/11/2012) and 'Family Health History Toolkit' (dated 5/5/2008). A sidebar on the left allows users to narrow results by subjects such as 'Disease or Clinical Category', 'Patient Care Process', 'Setting of Care', 'Patient Population', 'Stage of Care', and 'IOM Domains of Quality'. The page also shows the user's current selection as 'All Innovations & QualityTools' and a 'Sort by' dropdown menu set to 'Newest first'.

www.innovations.ahrq.gov

Thank You



AHRQ Mission

To improve the quality, safety, efficiency, and effectiveness of health care for all Americans

AHRQ Vision

As a result of AHRQ's efforts, American health care will provide services of the highest quality, with the best possible outcomes, at the lowest cost