

Update to the National Cancer Advisory Board

September 9, 2014



Mission

The Panel shall monitor the development and execution of the activities of the National Cancer Program, and shall report directly to the President.

Any delays or blockages in the rapid execution of the Program shall immediately be brought to the attention of the President.

Authority: 42 U.S.C. 285a-4; Sec. 415 of the Public Health Service Act, as amended



Members

Barbara K. Rimer, DrPH Univ. of North Carolina at Chapel Hill

Hill Harper, JD

Cancer Survivor, Actor, and Best-Selling
Author

Owen N. Witte, MD
University of California Los Angeles





A key criterion for topics

Actionable recommendations



Overview

- 2012-2013 Report to the President UPDATE

 Accelerating HPV Vaccine Uptake: Urgency for

 Action to Prevent Cancer
- ☐ June 13, 2014 Planning Workshop

 Cancer Communication in the Digital Era:

 Opportunities & Challenges
- 2014-2015 Series
 Connected Health: Improving Patients'
 Engagement and Activation for
 Cancer-Related Health Outcomes



2012-2013 Report to the **President – ACTION UPDATE**

Accelerating HPV Vaccine Uptake:

Urgency for Action to Prevent Cancer



A Report to the President of the United States from

The President's Cancer Panel

President's Cancer Panel Annual Report 2012–2013

ACCELERATING HPV VACCINE UPTAKE:

GENCY FOR ACTION TO PREVENT CANCER









Human papillomaviruses (HPV) cause most cases of cervical cancer and large proportions of vaginal, vulvar, anal, penile, and oropharyngeal cancers. HPV also causes genital warts and recurrent respiratory papillomatosis. HPV vaccines could dramatically reduce the incidence of HPV-associated cancers and other conditions among both females and males, but uptake of the vaccines has fallen short of target levels. The President's Cancer Panel finds underuse of HPV vaccines a serious but correctable threat to progress against cancer. In this report, the Panel presents four goals to increase HPV vaccine uptake: three of these focus on the United States and the fourth addresses ways the United States can help to increase global uptake of the vaccines. Several high-priority research questions related to HPV and HPV vaccines also are identified.

Letter to President Obama

Executive Summan

at a Glance

Download Full Report (PDF)

Click below to read more.

HOW TO ACCELERATE HPV VACCINE UPTAKE IN THE U.S.







INCREASE GLOBAL HPV VACCINATION

CONDUCT HIGH-PRIORITY RESEARCH



HPV Report Presentations

- National Vaccine Advisory Committee (February 2014): Drs. Rimer & Lowy
- NIH Office of Research on Women's Health (March 2014): Dr. Sandler
- Policy session at AACR Annual Meeting (April 2014): Drs. Witte and Sandler
- Webinar for the National Foundation for Infectious Diseases (May 2014): Drs. Rimer and Noel Brewer
- □ Accepted poster for APHA Annual Meeting (November 2014) – J. Sienko/L. Paradis



Upcoming NCI "Research to Reality" Cyber-Seminar



Accelerating HPV Vaccine Uptake: What is Working and Why

Tuesday September 23, 2014 2:00-3:00 pm ET

For more information and to register:

http://researchtoreality.cancer.gov

Speakers include Abby Sandler, PhD, Executive Secretary, President's Cancer Panel.

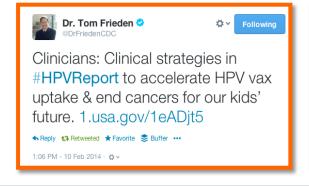


Social Media Engagement

#HPVReport

- We created & disseminated a comprehensive hashtag to magnify reach, engage stakeholders, and monitor online sentiment.
- Tweets and Facebook posts revealed strong support for report.





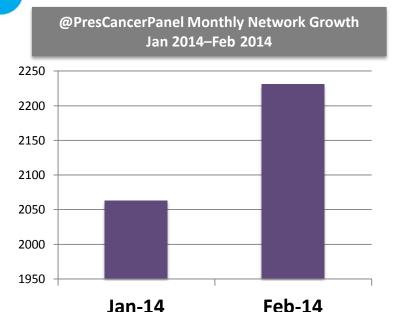






Social Media Engagement

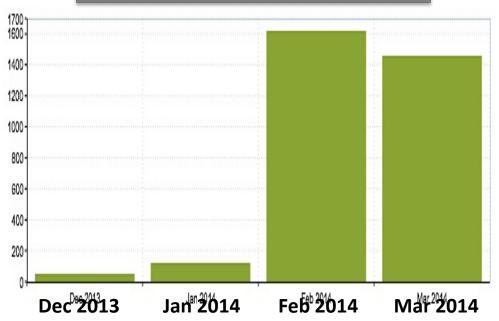
Promotional efforts, partner engagement, and report acclaim boosted monthly Twitter network and engagement numbers, enhancing online visibility and reinforcing the role of the Panel.



Report Release Week Analytics (Feb. 10-17, 2014)

- Reach: Over 4 million Twitter users
- ☐ Engagement activity: 170
- ☐ Followers: 65 new followers

@PresCancerPanel Monthly Engagement Levels
Dec 2013–Mar 2014





2013 HPV Vaccination Coverage for Adolescents

In 2013:

- □ 37.6% of girls ages 13-17 completed three-dose series (compared to 33.4% in 2012).*
- □ 13.9% of boys ages 13-17 completed three-dose series (compared to 6.8% in 2012).

CDC. National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13-17 Years – United States, 2013. MMWR 2014;63(29):625-33. http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6329a4.htm

^{*}Healthy People 2020 goal: 80 percent of girls ages 13-15 complete HPV vaccine series.



Implementation of Panel Recommendations – NCI

NCI announced one-year grant supplements: Promote collaborations between NCI-designated cancer centers and state/local cancer coalitions and HPV immunization programs.

Release date: July 17, 2014; Request Receipt date: August 4, 2014; Earliest Anticipated Start Date

for Awards: September 10, 2014.



Implementation of Panel Recommendations – CDC

CDC announced funds

- Develop and administer national network of cancer prevention organizations.
- ☐ Goal: improve HPV vaccination delivery for prevention of HPV-related cancers.

CDC-RFA-IP14-1410PPHF14 PPHF 2014: Immunization - HPV Roundtable: Creating a National Network of Partners to Promote Cancer Prevention through Human Papillomavirus (HPV) Vaccination financed solely by 2014 Prevention and Public Health Funds.



Implementation of Recommendations – Immunization Action Coalition (IAC)

- ☐ IAC issued "Dear Colleague" letter encouraging strong HPV vaccine recommendations
- Signed by:

AAFP ACP
AAP CDC
ACOG IAC

As a healthcare provider, we urge you to improve the strength and consistency of your recommendation for HPV vaccination to your patients. Your recommendation is the number one reason why someone will get the HPV vaccine and be protected from HPV-associated cancers and disease.

Signed:

ReilBlackward- MA

REID B. BLACKWELDER, MD

President

American Academy of Family Physicians

eann a. Com

GEANNE CONRY, MD

President

American College of Obstetricians

and Gynecologists

THOMAS FRIEDEN, MD

Director

Centers for Disease Control and Prevention

THOMAS K. McINERNY, MD

President

American Academy of Pediatrics

MOLLY COOKE, MD

President

American College of Physicians

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Deborah Wexler, MD

Executive Director

Immunization Action Coalition



2014 Planning Workshop





2014-2015 Series

Connected Health: Improving Patients' Engagement and Activation for Cancer-Related Health Outcomes



Improve communication, health care, health & reduce costs

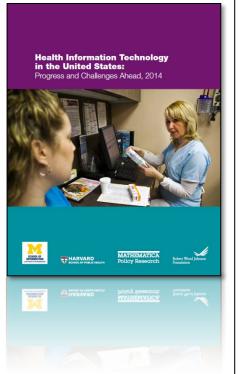
"The participation of patients in their own healthcare could substantially improve their care...Access to electronic personal health information and interfaces that make it easy for public and private clinical organizations to share health information with each other and with patients could enable healthcare providers and patients to collaborate in informed decisionmaking."

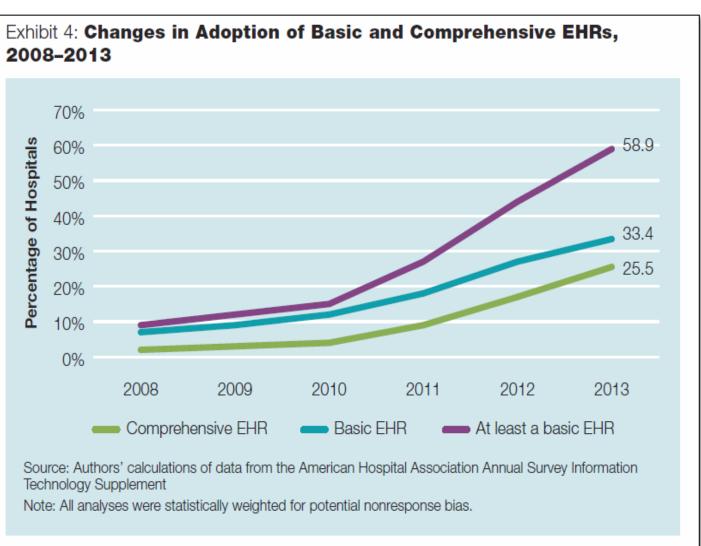
P. 17, PCAST, Realizing Potential of Health IT, 2010



Medicine's Move to Electronic Connectivity: The Supply Side (Robert Wood Johnson Foundation Annual Report)

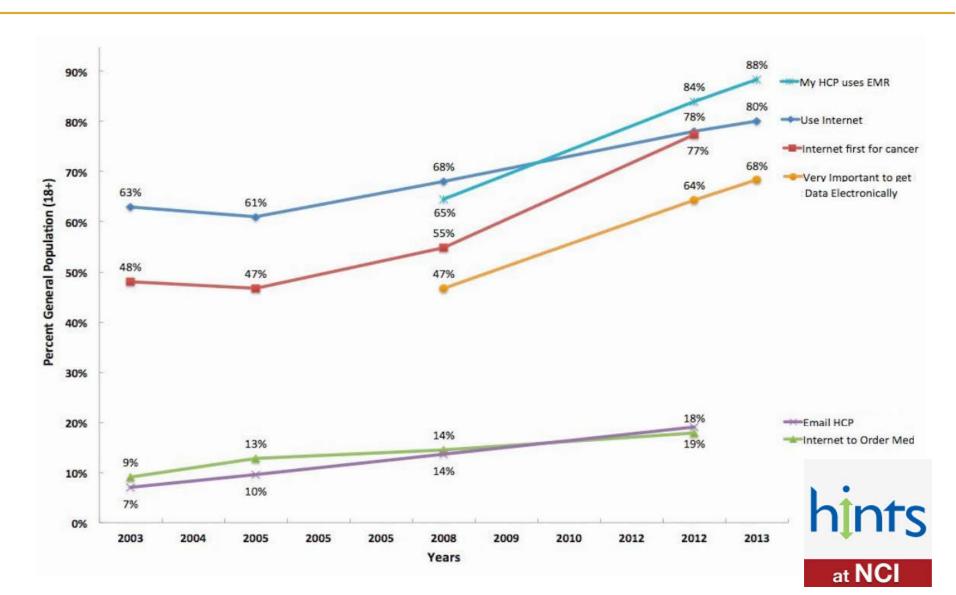
Robert Wood
Johnson Foundation:
Report on Health
Information
Technology (2014)







The Public's Move to Electronic Connectivity: The Demand Side (NCI's Health Information National Trends Survey [HINTS])

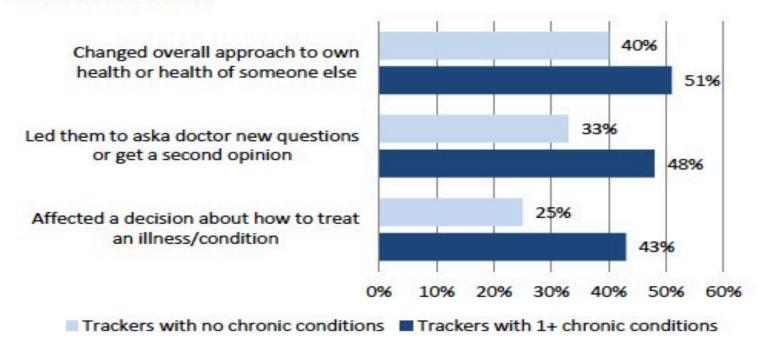




People with Chronic Conditions Are Highly Likely to Track Their Symptoms

Impact of tracking health

Among trackers, the % who say tracking their health has had the following impacts, by chronic condition status



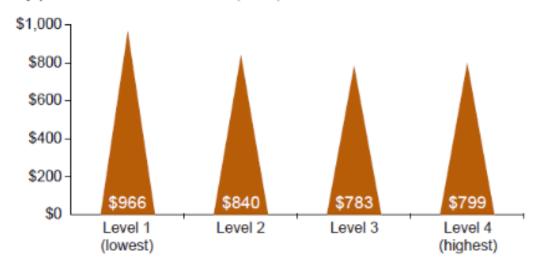
Source: Pew Internet Health Tracking Survey, August 07 – September 06, 2012. N=3,014 adults ages 18+. Interviews were conducted in English and Spanish and on landline and cell phones. Margin of error is +/- 2 percentage points for results based on all adults.



Highly Engaged and Activated Patients Have Lower Healthcare Costs

Patients Who Are More Actively Engaged in Their Care Have Lower Costs Than Patients Who Are Less Engaged

Predicted per capita billed costs in dollars, January–June 2011, by patient activation method (PAM) level



Notes: Inpatient and pharmacy costs not included. Dollar amounts are adjusted for differences in disease severity and demographics.

Source: Adapted from J. H. Hibbard, J. Greene, and V. Overton, "Patients with Lower Activation Associated with Higher Costs; Delivery Systems Should Know Their Patients' 'Scores," *Health Affairs*, Feb. 2013 32(2):216–22.

"People who are disengaged in their health are the toughest group to manage and account for a disproportionate share of healthcare costs.

Joseph Kvedar, MD
Director
Center for Connected Health
Partners HealthCare System



Intelligent devices: potentially powerful new tools for health



Intelligent devices include remote sensors, wearables, digital cameras, and mobile phone apps.



Apple Announces HealthKit Today

What is HealthKit? How the iPhone will get you fit



How Apple HealthKit is going to keep the doctor away

On the 9th of September, Apple will launch the iPhone 6, which means that it will also be launching a new version of iOS.



Connecting Health Data to Clinical Systems Through Sensors, Wearables & Other Devices

Robert Wood Johnson Foundation: Personal Data for the Public Good (2014)



- "Quantified Self" movement spurs new interest in prevention and healthy behaviors relevant to cancer control.
- "Meaningful Use" incentives to health care providers focus on requirement to demonstrate "patient engagement" through health information technology (Phases 2 & 3).



Connected health may improve medication adherence.

- Non-adherence is a problem for oral cancer medications.
- Increased resource use, incl. ER visits, costs, reduced regimen efficacy
- Connected health could improve adherence.
 - Tailored reminders to patients
 - Feedback re: barriers to adherence
 - Live chats with pharmacists & others
 - Portals for easier medication refills
 - Social support from other patients

- Darkow et al.
 (*Pharmacoeconomics*, 2007):
 31% of patients had Rx
 interruptions that led to
 increases in medical costs for
 patients on imatinib. Decrease
 in med persistence betw 4 & 14
 months of Rx.
- Hohneker et al. (JOP, 2011): 54% to 80% of breast cancer patients receiving hormone therapy adhere to Rx.
- Kondryn et al. (Lancet Onc, 2011): 63% of teens & young adults do not adhere to cancer Rx regimens.
- Consistent with other findings re: non-adherence to oral regimens



Communication Problems Significant in Cancer Care

- ☐ Interviews with 416 cancer patients across 3 clinical sites (Mazor, et al, 2012)
- Asked about events where something "went wrong," the event could have been prevented, and the event could have caused significant harm

Results

- □ 28%: problems with medical care
- **□**47%: communication problems
- 24%: problems with communication & medical care

Mazor KM, Roblin DW, Greene SM, et al. Toward patient-centered cancer care: patient perceptions of problematic events, impact, and response. *J Clin Oncol*. 2012;30:1784-1790.



Envisioning the Future of Patient Care in Oncology: The 2011 ASCO Blueprint



- "You will receive a saliva reader that plugs into your smart phone, together with a few mobile applications that allow you to record your symptoms" (p. 3, line 8).
- "Every eight hours, your phone will buzz to remind you to take your medicine and answer a short series of questions about how you are feeling" (p. 3, line 10).

ACCELERATING PROGRESS AGAINST CANCER

ASCO's Blueprint for Transforming Clinical and Translational Cancer Research



Creating a Connected Cancer Care Platform



- CancerLinQ provides real-time quality feedback to providers.
- Real-time clinical decision support can inform discussions between patients and physicians & choice of therapy.
- Powerful analytic tools help uncover patterns that can lead to improved care.



Pilot Program Uses "Connected Health Technologies" to Improve Cancer Care



- Navigator programs increase 5-year survival rates for breast cancer patients—are expensive.
- ONC funded pilots to improve navigation through connected technology.
- ☐ GA Tech computer scientists creating computational model with triggers for improving patient navigation/health outcomes.

8/12/2013 in <u>Biotechnology & Biomedicine</u>, <u>People & Technology</u>, <u>Public Service</u>, <u>Leadership & Policy</u>, <u>Rotator</u> Print This Page

MyJourney Compass: National Pilot Project Uses Information to Improve Cancer Treatment

An experimental health information exchange being tested in the north Georgia city of Rome is helping Koren Sinnock keep her travel plans. A breast cancer patient, Sinnock had been reluctant to travel very far from her doctors until the new program promised to provide access to her medical records from anywhere she might happen to be - including the beach.

"It gives me a sense of freedom that I can actually leave town and know that I can have medical information related to my cancer with me," she said. "I'm excited to be part of creating something that other people across the country might use."

· Watch a video describing this project

Providing easy access to medical histories and treatment records is just one aspect of MyJourney Compass, a pilot project designed to help patients navigate the complex cancer treatment process and become more involved their health care decisions. Operated through the <u>Georgia</u> Department of Community Health, the



Koren Sinnock is shown using the Nexus 7 tablet computer provided to patients through the MyJourney Compass pilot project. The computer provides medical information, access to health information records and a symptom tracker for regular communication with physicians. (Click image for high-resolution version. Credit: Rob Felt)



Cancer-Related Connected Health: Key Questions

- Does connected health improve patients' activation, engagement & patient-provider communication?
- What cancer-related outcomes can be achieved through connected health?
- □ Are there negative consequences for patients or the system?
- Is cancer-related connected health being developed at the right pace?



Cancer-Related Connected Health: Key Questions

- Does providing computationally-tailored information to patients improve cancer care & care outcomes?
- Barriers to connected health?
- What would accelerate the process?
- Impact of connected health on diverse patients?
- ☐ Transformative processes, ideas, intelligent devices & technologies on the horizon with potential to improve cancer-related connected health care?
- Research needs?



Connected Health Series Workshops (working titles)

- Workshop 1: Engaging Patients with Connected Health Technologies December 2014: Boston, MA
 - Connected health landscape and potential cancer applications
- Workshop 2: The Personal Health Data Revolution,
 Connected Health & Cancer March 2015: San Francisco, CA area
 - Role of health data in promoting health, consumer and patient activation, optimizing self-management, and supporting insight-driven healthcare leading to optimal outcomes
- Workshop 3: Imagining the Future of the Connected Cancer Patient TBD
 - Recommendations to accelerate progress re: connected health technologies in cancer



Contact Us

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