

Online Supplementary Material

Krist AH, Woolf SH, Rothemich S, et al. Randomized trial of an interactive preventive health record to enhance the delivery of recommended care? *Ann Fam Med*. 2012;10(4):312-319.

<http://www.annfammed.org/content/10/4/312/suppl/DC1>

Supplemental Appendix. Screenshots Describing Interactive Preventive Health Record (IPHR) Content

Step 1. After creating an IPHR account, the patient is asked a brief series of 10 to 12 health risk assessment questions. These questions supply information not available in the electronic health record (EHR), but needed to make personalized prevention recommendations.

The screenshot shows the 'My Preventive Care' website interface. At the top left is the logo with a red heart and the text 'My Preventive Care™'. To its right is the tagline 'Helping you take care of your health'. On the top right are 'Register' and 'Login' buttons. Below the header is a navigation bar with a 'Home' button. A breadcrumb trail reads 'You are here : Home » Health Risk Assessment'. A search bar is located on the right side of the breadcrumb. The main content area is titled 'Health Risk Assessment'. The first section is 'Gender', with a sub-header 'Some prevention recommendations are different for different genders.' and the question 'With what gender do you identify?'. There are two radio button options: 'Male' and 'Female', with 'Female' selected. The second section is 'Race and Ethnicity', also with a sub-header 'Some prevention recommendations are different for different genders.' and the question 'Is your national origin or ancestry Spanish, Hispanic, or Latino?'. There are two radio button options: 'Yes' and 'No', with 'No' selected. The third section is 'What is your race? (Mark all that apply)'. There are four checkbox options: 'White', 'Black or African American' (checked), 'Asian', and 'American Indian or Alaska Native'.

Step 2. The patient is shown selected preventive information from their clinician's EHR. The patient is asked to review, update, and correct the information. Changes are used in the IPHR logic and later sent to the clinician's EHR (see step 5).

Medical History

(from your doctor's record)



You have had ...

- Prostate cancer  no
- Colon cancer  no
- High blood pressure  no
- High cholesterol  yes
- Diabetes  no
- Heart failure  no
- Heart disease  no
- Asthma OR Emphysema  no
- An aortic aneurysm  no

You do not take an aspirin daily.

Your Test Dates

(from your doctor's record)



You had ...

a glucose test on 3/15/2010 

You have never had ...

- a PSA test 
- an aortic ultrasound 
- a colonoscopy 
- a sigmoidoscopy 
- a home blood stool test 
- an A1c test 

Your Test Results

(from your doctor's record)



The most recent date and value of ...

- your weight on 3/15/2010 was 213 pounds
- your height on 3/15/2010 was 6 feet and 3 inches
- your blood pressure on 3/15/2010 was 124/78 
- your LDL cholesterol on 3/15/2010 was 112 
- your HDL cholesterol on 3/15/2010 was 51 
- your glucose on 3/15/2010 was 91 

You have no results for ...

Step 3. The patient is taken to a general summary page. This provides a dashboard snapshot with a list of preventive services needed now, key preventive service values and dates, and the status of cancer screening, heart care, health behaviors, vaccines, and other services. Visual cues (red or green flags) highlight status and hyperlinks take patients to a detailed personalized message (Step #4).

What You Need Now

Eat Healthy

Choose the right foods for your body.

You Have High Cholesterol

Get the follow-up care you need for your cholesterol.

Your Key Dates

Preventive Service	Date Measured
Stool test for cancer	No date
Sigmoidoscopy	No date
Colonoscopy	No date
PSA test	No date
Aneurysm ultrasound	No date
Pneumonia shot	No date
Flu shot	10/5/2010
Tetanus shot	11/29/2010

Cancer Screening +

Heart Care -

Screening	Status	Next Steps
Cholesterol	!	Get your cholesterol checked now
Aspirin	if	Decide if you should take aspirin
Blood pressure	✓	Get your blood pressure checked before 3/15/2012

Health Behaviors +

Vaccines +

Other Services +

Your Key Values

Preventive Measure	Date Measured	Your Value	Your Goal	How You're Doing
Body mass index	3/15/2010	27	< 25	!
Blood pressure	3/15/2010	118/78	< 140/90	✓
LDL (bad) cholesterol	3/15/2010	112	< 160	✓
HDL (good) cholesterol	3/15/2010	51	>= 40	✓
Blood sugar	3/15/2010	91	< 126	✓
Hemoglobin A1c	No date	No value	<= 7.0	?
Prostate-Specific Antigen	No date	No value	< 4.0	?

Update Your Health Information

View and update your health information to make sure *MyPreventiveCare's* recommendations are right for you. *MyPreventiveCare* is missing some of your information:

None

Follow Your Conditions

Your *MyPreventiveCare* record shows you have:

High cholesterol

Follow Your Abnormal Results

Your *MyPreventiveCare* record shows you have had abnormal results on these tests:

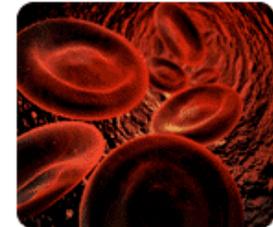
None

Step 4. The IPHR generates a detailed personalized prevention message for each of the 18 preventive services. There are 592 variations of these messages, based on each individual patient's profile. Messages are modeled after Healthfinder.gov and include 5 domains of information: a summary of the patient's information (dates, values, risks, and goals), basic information about the condition, benefits of the preventive service, next steps based on the individual patient's profile, and information to guide next steps selected based on the patient's profile.

You Have High Cholesterol

Your Information

You have a diagnosis of high cholesterol.
You had a cholesterol test on 3/15/2010.
Your LDL cholesterol was 112.
Your HDL cholesterol was 51.
You have no risk factors for heart disease.
Given your risks, your goal LDL is less than 160.
You are due to get your cholesterol checked now.



The Basics

Because you have a diagnosis of high cholesterol, you should have your cholesterol checked every year. It is good that you had your cholesterol checked on 3/15/2010, but you are overdue to have it checked again. Given your risks, your goal LDL cholesterol is less than 160. It is good that your last LDL cholesterol was 112. Too much cholesterol in your blood can cause heart disease or a heart attack, and a healthy lifestyle or medication can lower your cholesterol.

The Benefits

The good news is that cholesterol can be easily checked. And if your cholesterol is high, there are things you can do to control it. Lowering your cholesterol can reduce your risk of heart disease, strokes, and clogged arteries in your legs – and can help you live a longer, healthier life.

Your Next Steps

- Talk with your doctor about getting your cholesterol checked again now.
- Work with your doctor to continue to control your cholesterol.
- Live a healthy lifestyle to continue to control your cholesterol. This includes eating foods low in saturated fat, trans fat, and cholesterol, getting active, and controlling your weight.

Information to Guide Your Next Steps

See what your past cholesterol levels (HDL values, LDL values) have been.
[Learn more about cholesterol.](#)
[Learn more about healthy lifestyles to maintain a good cholesterol level.](#)

Step 5. After using the IPHR, the system sends a patient summary into the EHR of the patient's clinician. The summary includes a list of information the patient corrected, the patient's health behaviors, and overdue preventive services. Summaries come to the patient's personal clinician as a task. This is the same workflow that results and messages come to clinicians in their EHR.



Helping you take care of your health

Patient Medical ID: 100405010401

Patient DOB: 7/22/1956

Patient Gender: female

Report Run Date: 10/08/2010

Dear Provider,

Your patient visited the MyPreventiveCare interactive preventive healthcare record on 10/8/2010.

Below is a summary of preventive information that your patient updated on the MyPreventiveCare website, your patient's health behaviors, and the preventive services that your patient may be due for.

Thank you for encouraging your patients use MyPreventiveCare!

If you have any comments or suggestions on how MyPreventiveCare can be more helpful, please notify us at comments@mypreventivecare.com.

PREVENTIVE INFORMATION YOUR PATIENT REPORTED WAS DIFFERENT THAN YOUR RECORD:

Your patient did not change any information in his/her MPC record.

YOUR PATIENT'S HEALTH BEHAVIORS INCLUDE:

Eating unknown serving(s) of fruits and vegetables per day.

Exercising unknown time(s) per week

Currently smokes - unknown

A BMI of 40

PREVENTIVE SERVICES YOUR PATIENT MAY NEED INCLUDE:

Breast cancer screening: No record of a mammogram

Cervical cancer screening: No record of a pap smear

Colon cancer screening: No record of any colon cancer screening test

Aspirin counseling: Does not take an aspirin

Diabetes screening: Has an elevated blood pressure, no record of a glucose test