

Agency for Healthcare Research and Quality (AHRQ)

Electronic Preventive Services Selector (ePSS) for

Android Tablet

Instructions for Use



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Overview

This document provides instructions for viewing the US Preventive Service Task Force (USPSTF) recommendations using an Android Tablet device. The user can Search the database for specific recommendations using criteria filters including: age, sex, pregnancy status, tobacco use and sexual activity, Browse for all specific recommendations grouped by clinical topics or retrieve saved recommendations using Bookmarks. New features of the ePSS enable users to Customize and Save Searches, Bookmark favorite recommendations and topics, and Email results with, or without, patient or clinician personalization.

Search for Recommendations

The Search for Recommendations Screen (Figure 1) is used to perform a targeted search for specific recommendations. Select the Start button "" to initiate a search. Optional search criteria can be entered to filter results based on:

- Age between 0-99 (for infants under the ages of 1 year, enter 0)
- Patient gender by selecting the button "Male" or "Female". The recommendations for both "Male" and "Female" patients are displayed if neither is selected
- Pregnancy status, Check "Pregnant" to indicate pregnant
- Tobacco User, choose "Yes" for "Tobacco User"
- Sexually Active, choose "Yes" for "Sexually Active"

The Reset button "" is used to clear the search criteria and start a new search.

AHRQ ePSS NEW!

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

Age: Year(s)

Sex: Female Male
 Pregnant

Tobacco User: Yes No

Sexually Active: Yes No

Figure 1: Search for Recommendations Screen

Search Results Display and Navigation

As shown in Figure 2, the current Search Criteria is displayed above the search results, followed by a list of all recommendations matching the search criteria grouped into five grade tabs: A, B, C, D, and I. Selecting the Grade tab changes the display to include only recommendations for the corresponding grade level. In general, recommendations with grades A or B are grouped under the Category Recommended, grade D is grouped under the Category Not Recommended, and grades C or I are grouped under the Category Uncertain. A "★" in front of the recommendation, indicates that the grade definition has changed.

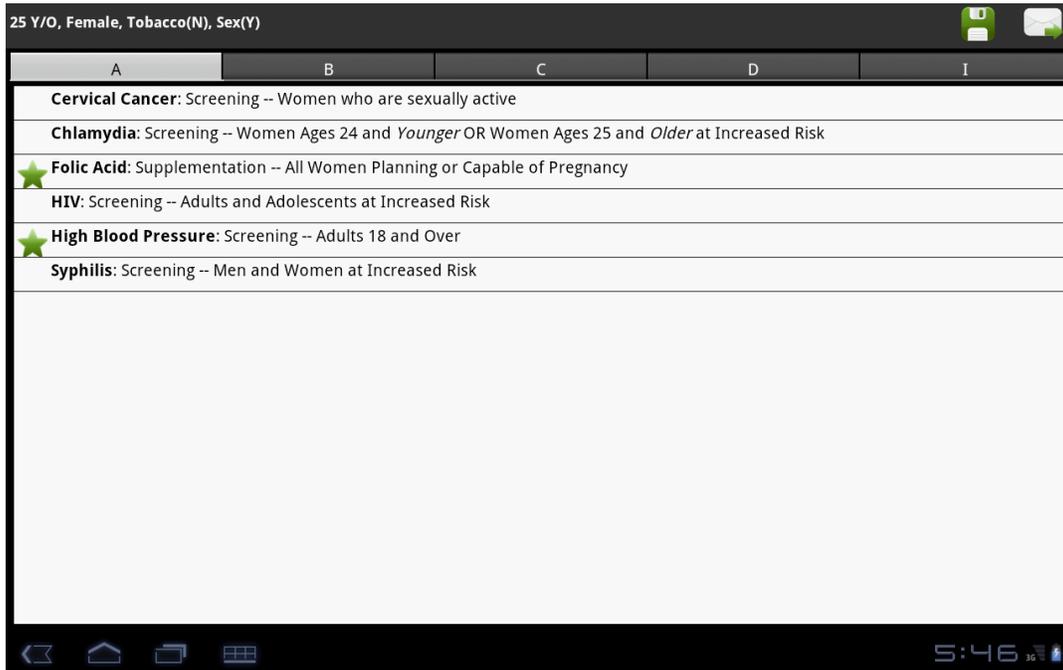


Figure 2: Search Results Screen

Selecting a Recommendation in a Search Results list displays the Recommendation/Risk Factor Selection Screen (Figure 3) enabling the user to choose between the Recommendation Detail screen and the Risk Factor Information screen (if available). Selecting the Recommendations button "Recommendations" opens the Recommendation Detail screen (Figure 4), providing General Information about the Recommendation with the following tabs:

- General (Default Display): Displays the Detail, Grade, Frequency of Service (if available) and Risk Information (if available) for the selected Recommendation.
- Clinical: This tab displays the Topic-level Clinical Consideration information for the selected Recommendation
- Rationale: This tab displays the Rationale information for the Specific Recommendation, or the Rationale information for the associated Clinical Topic, if available
- Tools: This tab provides the Specific Recommendations, grades and qualified Screening Tools

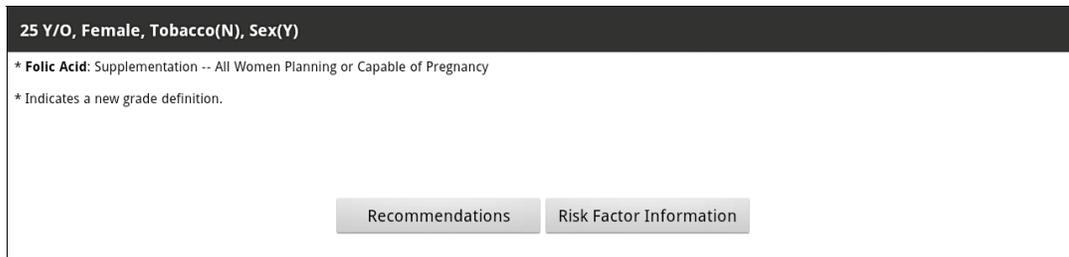


Figure 3: Recommendation/Risk Factor Selections Screen

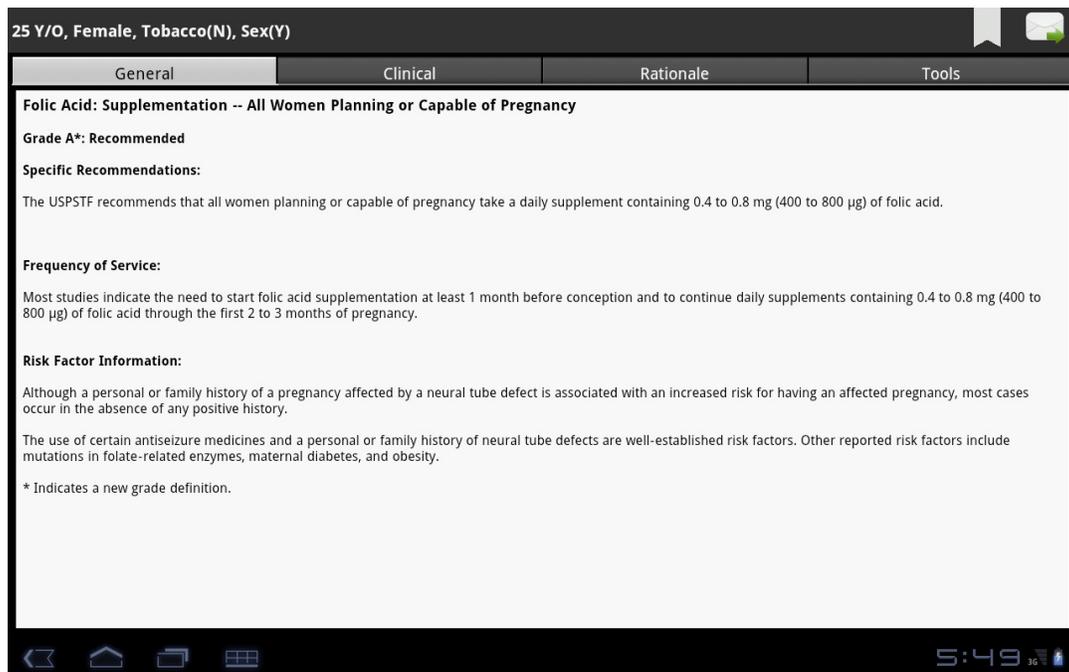


Figure 4: Recommendation Details Screen

Save Search

The ePSS application provides the capability to save a search for later retrieval. Select the Save Search Icon "📁" on the Search Results screen (Figure 2) to open the Save Search screen (Figure 5), and enter a title for the saved search and any additional notes. Select the Save button "Save", to save the search criteria and results list. Saved searches are accessed using the Android Menu, as described below.

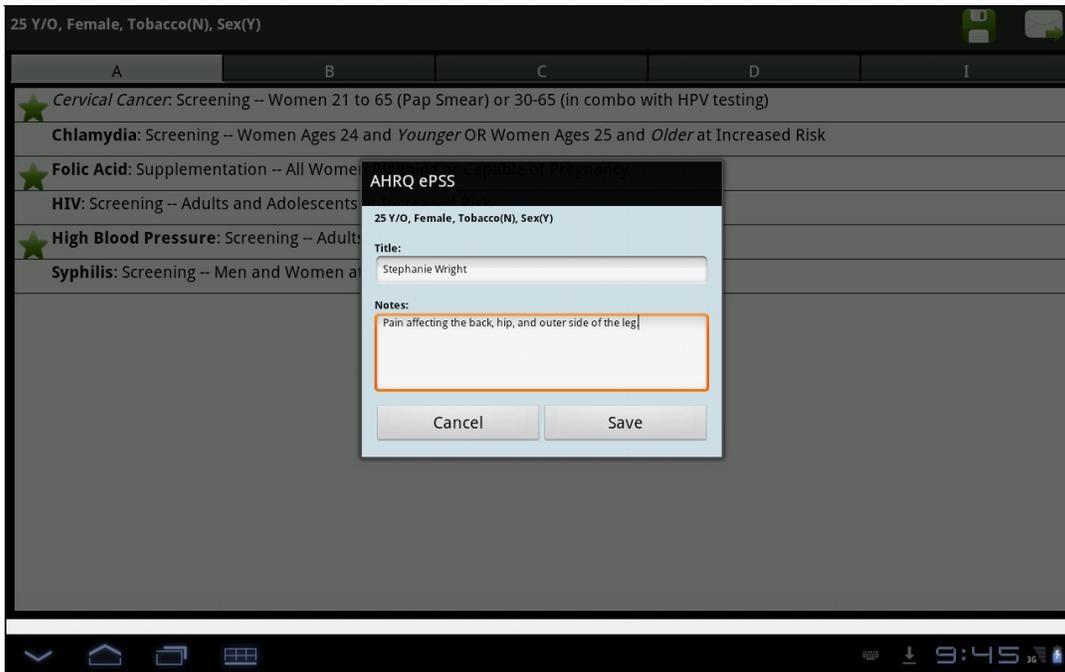


Figure 5: Save Search Screen

Select the Saved Searches option "📁" from the Android Menu (Figure 6) to view the saved searches list (Figure 7). Select the Delete icon "✖", to delete the selected search from the list. Select the Email icon "✉", to send the selected recommendations to a patient.

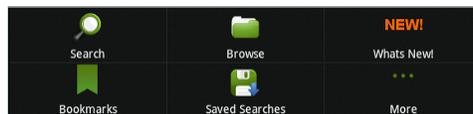


Figure 6: Android Menu



Figure 7: Saved Searches List Screen

Customizing Search Results

Search Results can be edited (Figure 8) to produce a customized recommendations list by categorizing Recommendations as relevant and non-relevant. Recommendations designated as non-relevant are removed from the results list. Removal only reclassifies the Recommendation in the Results List without deletion. Recommendations are removed by selecting the Remove icon "↓" arrow, to move the selected recommendation to the non-relevant recommendation list which appears at the bottom of the Results List. A recommendation can be moved back to the customized recommendations list by selecting the Add icon "↑" arrow. Customized Result Lists can be saved for later retrieval as previously described in SAVE SEARCH.

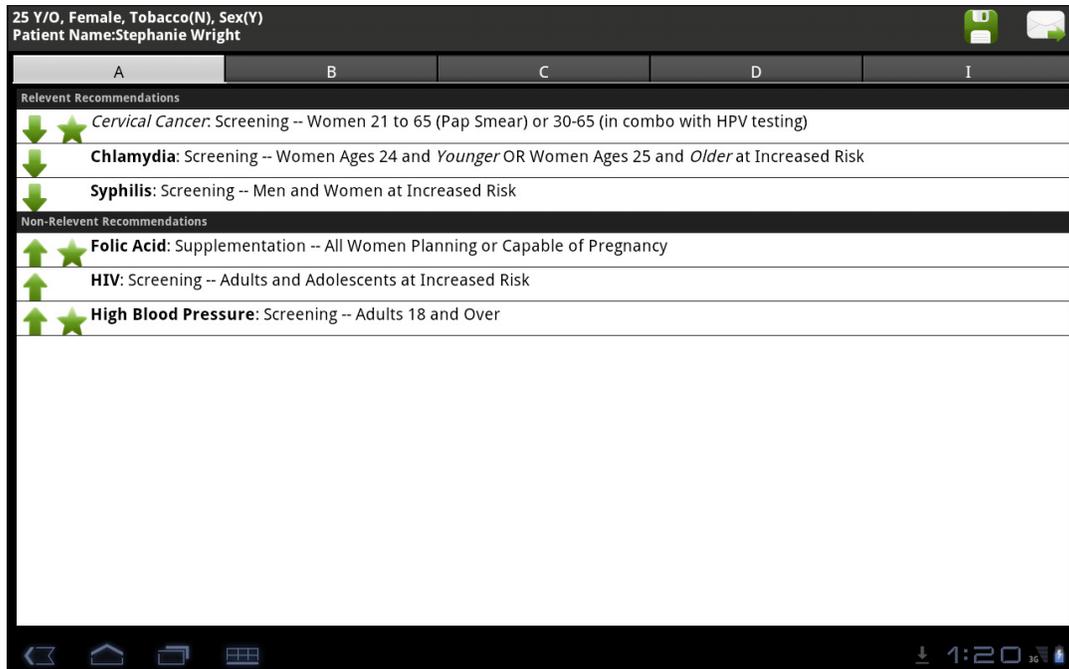


Figure 8: Customize Search Results Screen

Browse Recommendations by Topic

Browse by Topic displays recommendations by Clinical Topics, as shown in Figure 9. Browse by Topic can be initiated by selecting the Browse option "Browse" from the Android Menu. The Topic Display is controlled using four tabs:

- View All: This tab displays a list of all USPSTF topics sorted in alphabetical order.
- Counseling: This tab displays the list of USPSTF topics by Counseling category.
- Preventive Rx: This tab displays the list of USPSTF topics by Preventive Medication category.
- Screening: This tab displays the list of USPSTF topics by Screening category.

Select a topic from the list to view the Topic Recommendation Details.

View All	Counseling	Preventive RX	Screening
Abdominal Aortic Aneurysm, Screening, 2005			
Alcohol Misuse, Screening and Behavioral Counseling, 2004			
Aspirin to Prevent Cardiovascular Disease, Preventive Medication, 2009			
Aspirin/NSAIDs to Prevent Colorectal Cancer, 2007			
Asymptomatic Bacteriuria, Screening, 2008			
Back Pain, Lower, Counseling, 2004			
Bacterial Vaginosis in Pregnancy, Screening, 2008			
Bladder Cancer in Adults, Screening, 2011			
Blood Pressure, Screening, 2007			
Breast Cancer, Preventive Medication, 2002			
Breast Cancer, Screening, 2009			
Breast and Ovarian Cancer: BRCA Mutation Testing for Susceptibility, Screening, 2005			
Breastfeeding, Primary Care Interventions, 2008			
Carotid Artery Stenosis, Screening, 2007			
Cervical Cancer, Screening, 2003			

Figure 9: Browse by Topic Screen

Selecting a topic name displays a list of Grades associated with that topic (Figure 10). Select a grade to view the Specific Recommendations related to that Clinical Topic, as shown in Figure 11, and provides the following tabs:

- General (Default): Displays the Detail, Grade, Frequency of Service (if available), and Risk Information (if available), for each Specific Recommendation associated with the Topic
- Clinical: Displays the Clinical Consideration information for the selected Topic
- Rationale: Displays the Rationale information for Specific Recommendations, or the Rationale information for the selected topic, as available
- Tools: Displays the list of Specific Recommendations, their Grade and qualified Screening Tools

Browse By Topic
A (Recommended)
D (Not Recommended)
I (Uncertain)

Figure 10: Grades List Screen

Topic Details

General Clinical Rationale Tools

Aspirin to Prevent Cardiovascular Disease, Preventive Medication, 2009

Aspirin to Prevent CVD: Men age 45 to 79 to prevent myocardial infarctions

Grade A*: Recommended

Specific Recommendations:

The USPSTF recommends the use of aspirin for men age 45 to 79 years when the potential benefit due to a reduction in myocardial infarctions outweighs the potential harm due to an increase in gastrointestinal hemorrhage.

Frequency of Service:

Although the optimal timing and frequency of discussions related to aspirin therapy are unknown, a reasonable option might be every 5 years in middle age and later and also whenever other cardiovascular risk factors are detected.

Risk Factor Information:

The net benefit of aspirin depends on the initial risk for coronary heart disease events and gastrointestinal bleeding. Thus, decisions about aspirin therapy should consider the overall risks for coronary heart disease and gastrointestinal bleeding.

Risk assessment for coronary heart disease should include ascertainment of risk factors: age, diabetes, total cholesterol levels, high-density lipoprotein cholesterol levels, blood pressure, and smoking. Available tools provide estimations of coronary heart disease risk.

Aspirin to Prevent CVD: Women age 55 to 79 to prevent ischemic strokes

Grade A*: Recommended

Specific Recommendations:

The USPSTF recommends the use of aspirin for women age 55 to 79 years when the potential benefit of a reduction in ischemic strokes outweighs the potential harm of an

Figure 11: Topic Details Screen

Email/Bookmark Results

Select the Email icon "✉" to open the Compose a Message screen from a results screen (Figure 7). Enter the recipient email addresses, subject and send the email. Recommendations are included as an HTML attachment to the email message. The ability to email requires an appropriately configured and Android accessible email account.

Similarly, select the Bookmark icon "🔖" to save Recommendations and Topics for later recall using the Bookmark option "🔖".

Bookmark Search

Selecting the Bookmarks option "🔖" from the Android Menu opens a list of bookmarked recommendations and topics, as shown in Figure 12. The bookmark titles are displayed by results type, Recommendations and Topics. Bookmarked recommendations can be removed by highlighting the bookmark and selecting the Bookmark icon "🔖". Selecting a bookmark displays the recommendation details, as appropriate for the Specific Recommendation or Topic. All Navigation and features appropriate for the type of bookmark are active when the bookmark results are displayed.

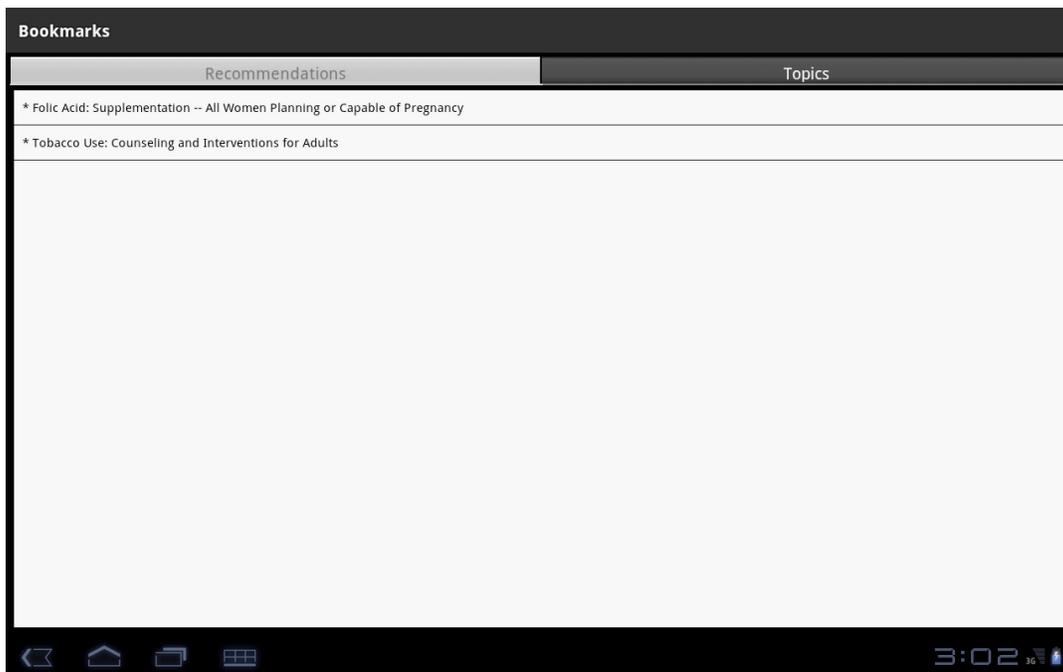


Figure 12: Bookmarks Screen

View/Email Saved Searches

Select the Saved Searches option "Save Search" from the Android Menu to view the saved searches list (Figure 13). Select the Delete icon "✖", to delete the selected search from the list. Select the Email icon "✉", to send the selected recommendations to a patient.

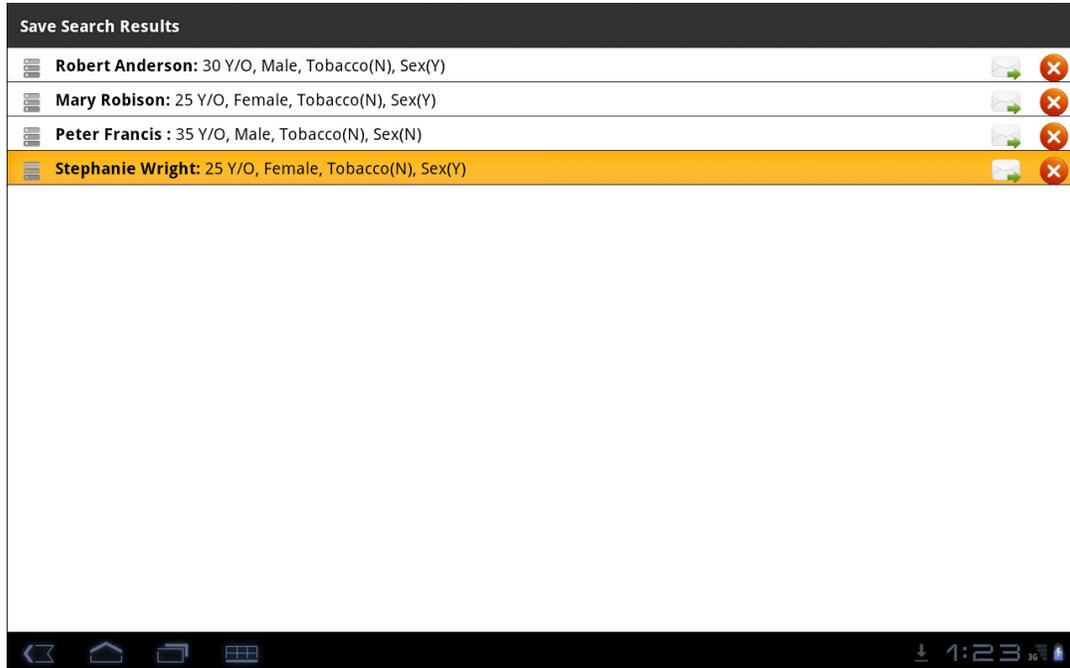


Figure 13: Saved Searches List Screen

Select a saved search from the Saved Searches List, to view the search details (Figure 14).

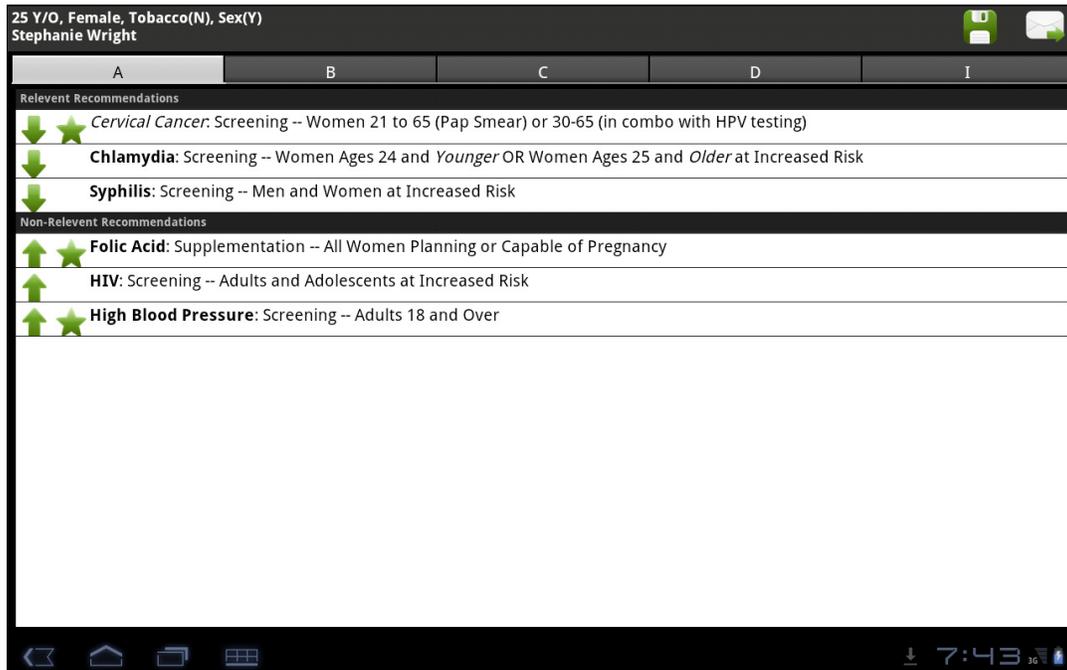


Figure 14: Saved Search Details Screen

Personalization

The Setting feature provided by ePSS can be used to enter information that is included in emails, and in the header of printed results. Select the "Settings" on the Information Screen (Figure 15), to open the Settings Screen (Figure 16).

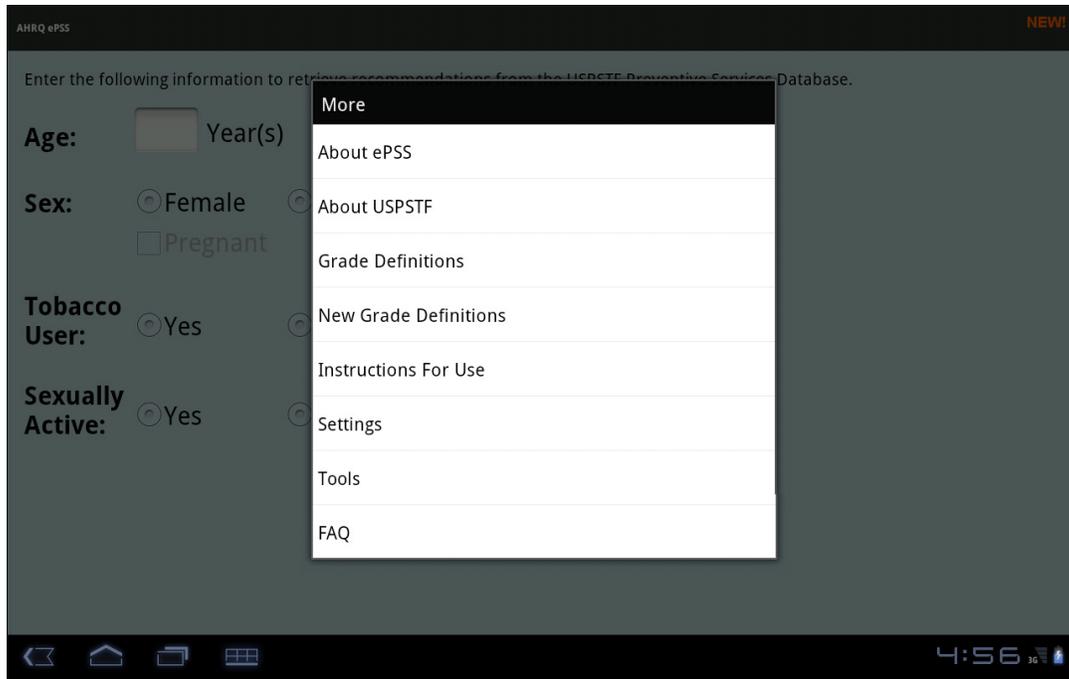


Figure 15 : Information Screen

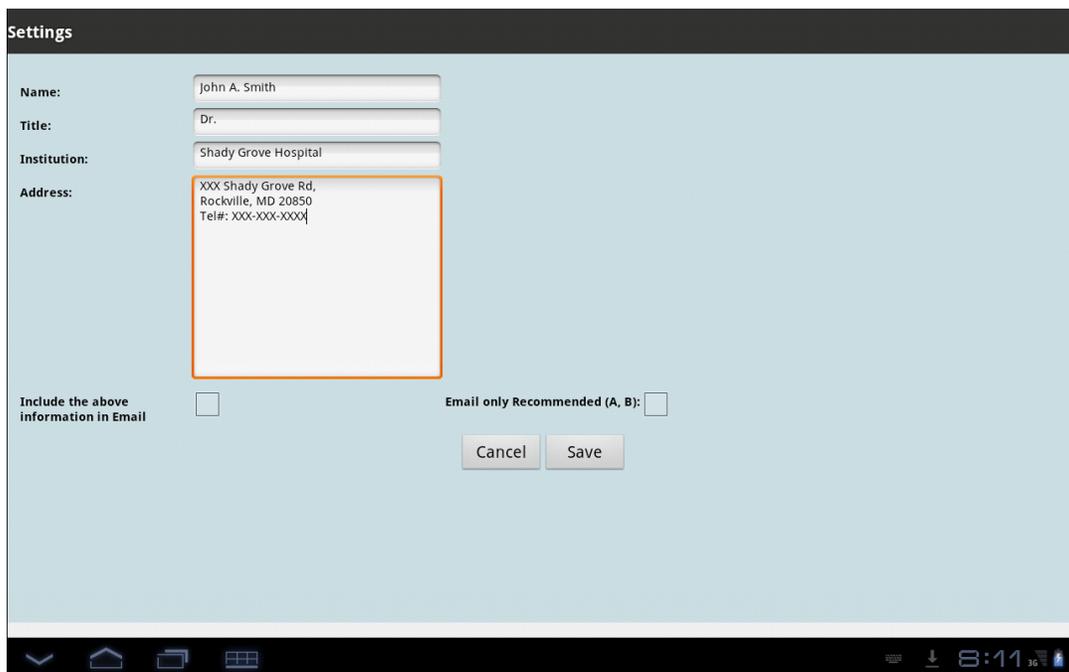


Figure 16: Settings Screen

Figure 17 provides an example of personalized email attachments using the data entered into the Settings Screen (Figure 16).

ePSS Recommendations Rx Dr. John A. Smith, Shady Grove Hospital

Mary K. Smith: 24 Y/O, Female(P), Tobacco(N), Sex(Y)

* Indicates a new grade definition

26 - Recommended (A, B)

Grade	Title
A*	Asymptomatic Bacteriuria: Screening -- Pregnant Women
A*	C
A	CC
A*	C
A	ar
A*	Fr
A	H
A	H
A*	H
A*	H
A	R
	Vi

5XXXX Shady Grove

ePSS Recommendations Rx Dr. John A. Smith, Shady Grove Hospital

Mary K. Smith: 24 Y/O, Female(P), Tobacco(N), Sex(Y)

Asymptomatic Bacteriuria: Screening -- Pregnant Women

Grade A (Strongly Recommended)*:

Specific Recommendations:

The USPSTF recommends screening for asymptomatic bacteriuria with urine culture for pregnant women at 12 to 16 weeks' gestation or at the first prenatal visit, if later.

Frequency of Service:

All pregnant women should provide a clean-catch urine specimen for a screening culture at 12 to 16 weeks' gestation or at the first prenatal visit, if later. The optimal frequency of subsequent urine testing during pregnancy is uncertain.

Risk Factor Information:

No information available.

5XXXX Shady Grove Rd Rockville MD 20850 8/28/2012

Figure 17: Personalized Email Attachments

Tools

Based on recommendations from the USPSTF, these tools are designed to help clinicians access information at the point of care. The ePSS application provides clinicians with a convenient mechanism for accessing available tools directly, without searching and viewing recommendations.

Select the "Tools" on the Information Screen (Figure 15) to view the USPSTF recommended screening tools, as shown in Figure 18. A wireless or WiFi internet connection is required to access these tools.

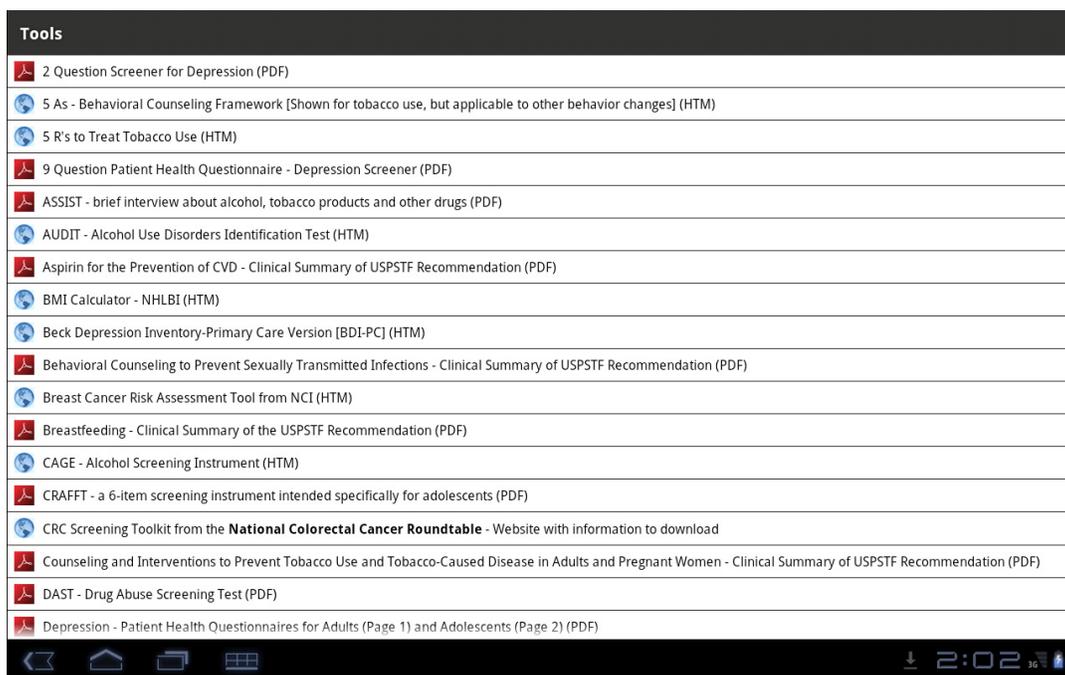


Figure 18: Tools Screen

Information Screens

Select the More option "" from the Android Menu (Figure 6) to display general information (Figure 15) about the ePSS application, and to access specific features and customization options including:

- About ePSS
- About USPSTF
- Grade Definitions
- New Grade Definitions
- Instructions for Use
- Settings
- Tools
- FAQ