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Overview

This document provides instructions for viewing the US Preventive Service Task Force (USPSTF) recommendations using an iPhone or iPod touch 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. In addition, the user can Customize and Save Searches, Bookmark favorite recommendations and topics, and Email and Print results with, or without, patient or clinician personalization. A new feature of the ePSS enables the user to search for recommendations using a Keyword.
Search for Recommendations

Selecting the Start button "Start" initiates a targeted search for specific recommendations. Optional search criteria, as shown in Figure 1, 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". If the "Both" button is selected, recommendations for both Male and Female patients are displayed
- Pregnancy status, choose "Yes" to indicate pregnant
- Tobacco User, choose "Yes" for "Tobacco User"
- Sexually Active, choose "Yes" for "Sexually Active"

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

The Search screen can be accessed from anywhere within the application by selecting the Search " " tab on the tab bar.

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 six tabs: All, A, B, C, D, and I. The "All" tab is selected by default and displays the all related recommendations. 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 C is grouped under the Category Selectively Recommended, grade D is grouped under the Category Not Recommended, and grade I is grouped under the Category Uncertain. An asterisk, "*", in front of the recommendation, indicates that the old grade definition is associated. Selecting the Search "*" tab at the bottom of the screen displays a new search screen. The Browse " " and Bookmarks " " tabs enable the user to switch between search modes.

![Figure 2: Search Results Screen](image-url)
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 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
- **Rationale:** This tab displays the Rationale information for the Specific Recommendation, or the Rationale information for the associated Clinical Topic, if available
- **Clinical:** This tab displays the Topic-level Clinical Consideration information for the selected Recommendation
- **Others:** This tab displays the Discussion and Other sections information for the selected Recommendation
- **Tools:** This tab provides the Specific Recommendations, grades and qualified Screening Tools

![Figure 3: Recommendation/Risk Factor Selections Screen](image1)

![Figure 4: Recommendation Details Screen](image2)
Save Search

The ePSS application provides the capability to save a search for later retrieval. Select the Save Search button " " 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 More " " tab from the tab bar, as described below. Select the “Saved Searches” option from the More menu to view the saved searches list (Figure 6).

Figure 5: Save Search Screen

Figure 6: Saved Searches List
Customizing Search Results

Search Results can be edited to produce a customized recommendations list by categorizing recommendations as either relevant or non-relevant. Recommendations designated as non-relevant are removed from the results list. Removal only reclassifies the recommendation in the Results List as non-relevant. Recommendations are removed by swiping a recommendation (Figure 7) and selecting Remove button "Remove". A recommendation can be moved back to relevant list by swiping the title and selecting Add button "Add". Customized Result Lists (Figure 8) can be saved for later retrieval as previously described in SAVE SEARCH.

Figure 7: Remove Non-Relevant Recommendations

Figure 8: Customized Results List
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 “TAB” tab from the tab bar. 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.

Figure 9: Browse by Topic Screen
Selecting a topic name displays the Topic Grade Screen (Figure 10). Selecting a grade displays the Specific Recommendations related to that Clinical Topic for the selected grade, 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
- **Rationale:** Displays the Rationale information for Specific Recommendations, or the Rationale information for the selected topic, as available
- **Clinical:** Displays the Clinical Consideration information for the selected Topic
- **Others:** Displays the Discussion and Other sections information for the selected Topic
- **Tools:** Displays the list of Specific Recommendations, their Grade and qualified Screening Tools
Browse Recommendations by Grade

Browse by Grade displays recommendations grouped by Grades. Select the "Browse by Grade" form the "More" menu to open the Grade recommendations screen. The Grade display is grouped into six tabs: All, A, B, C, D, and I. As shown in Figure 12. The "All" tab is selected by default and displays all recommendations. 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 C is grouped under the Category Selectively Recommended, grade D is grouped under the Category Not Recommended, and grade I is grouped under the Category Uncertain. An asterisk, "*", in front of the recommendation, indicates that the old grade definition is associated. Selecting a Recommendation in a Grade list displays the Recommendation/Risk Factor Selection Screen (see Figure 3) enabling the user to choose between the Recommendation Detail screen and the Risk Factor Information screen (if available). Selecting the Recommendations button opens the Recommendation Detail screen (see Figure 4).

![Figure 12: Browse by Grade Screen](image-url)
Email/Bookmark Results

Select the Email & Print button " " to initiate the Print and Email functions (Figure 13) from the results screen. Select the "Email" button to open the Compose a Message screen. Enter the recipient's email address, 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 iPhone/iPod touch accessible email account.

Similarly, select the Bookmark button " " save Recommendations and Topics for later recall using the Bookmarks " " tab from the tab bar. The bookmark button changes to " " , indicating the item is now bookmarked.

Figure 13: Print and Email Functions Screen
Bookmark Search

Selecting the Bookmarks "Bookmark" tab from the tab bar opens a list of bookmarked titles and topics, as shown in Figure 14. The bookmarked list contains two sections. The first section lists all the bookmarked short titles from searched list. The second section lists all the bookmarked topics from Browse by Topics list. Simply tap the short title or topic to view the ePSS recommendation.

The users can swipe the bookmarked item from the bookmarked table (Figure 15) or click the Bookmarked button "Bookmark" at the Recommendation Detail screen (Figure 4) to remove the bookmarked recommendation or bookmarked topic.
View /Email Saved Searches

To view saved searches, select the More "..." tab from the tab bar and then the Saved Searches option. This will open the Saved Searches screen (Figure 16). Each item contains title, search criteria, and notes. Touch the Sort button "Sort" (Figure 16) to sort the save searches list by date or name. Touch a saved search to view the saved search details (Figure 17).

You can delete or email a saved search from the list. Swipe a saved search to display Email & Print button "Email & Print" and Delete button "Delete" (Figure 18). Touch the Delete button "Delete" to remove the selected saved search permanently. Touch the Email & Print button "Email & Print" to email or print the saved search (Figure 18).
Figure 18: Email & Print Saved Search
Personalization

The Settings feature provided by ePSS can be used to enter information that is included in emails and in the header of printed results. Select More "***" tab from the tab bar and then "Settings" option on the Information Screen (Figure 19), to open the Settings Screen (Figure 20).

![Figure 19: Information Screen](image-url)
Figure 20: Settings Screen
Figure 21 provides an example of personalized email attachments using the data entered into the Settings Screen (Figure 20).

Figure 21: Personalized Email Attachments
Figure 22 provides an example of personalized printouts using the data entered into the Settings Screen (Figure 20).

Asymptomatic Bacteriuria: Screening — Pregnant Women

**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: (To be determined)
- Risk Factor Information: (To be determined)
- Clinical Considerations: (To be determined)

**Screening Tests:**
- The screening tests used commonly in the primary care setting (dipstick analysis and direct microscopy) have poor sensitivity and negative predictive value for detecting *bacteriuria* in asymptomatic persons. Urine culture is the gold standard for detecting asymptomatic *bacteriuria* but is expensive for routine screening in populations with a low prevalence of the condition. However, no currently available tests have a high enough sensitivity and negative predictive value in pregnant women to replace the urine culture as the preferred screening test.

**Treatment:**
- Pregnant women with asymptomatic *bacteriuria* should receive antibiotic therapy directed at the cultured organism and follow-up monitoring.

**Screening Intervals:**
- 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.

**Rationale:**
- Importance: In pregnant women, asymptomatic *bacteriuria* has been associated with an increased incidence of pyelonephritis and low birthweight (birthweight <2500 g).
- Detection: Asymptomatic *bacteriuria* can be reliably detected through urine culture. The presence of at least 105 colony-forming units per ml of urine, of a single *Escherichia coli*, and in a midstream clean-catch specimen is considered a positive test result.

**Benefits of Detection and Early Intervention:**
- In pregnant women, convincing evidence indicates that detection and treatment for asymptomatic *bacteriuria* with antibiotics significantly reduces the incidence of symptomatic
Tools

Based on recommendations from the USPSTF, these tools are designed to help clinician’s 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 “ ” tab on the tab bar to view the USPSTF recommended screening tools, as shown in Figure 23. A wireless or WiFi internet connection is required to access these tools.

Figure 23: Tools Screen
Keyword Search

The ePSS application provides the capability to search recommendations using a keyword. Select More "..." tab from the tab bar and then the "Keyword Search" option (Figure 19) to open the Keyword Search screen. Enter a keyword and then tap the Search button on the iPhone Keypad to view the search results listed by Clinical Topic (Figure 24). Selecting a Topic displays the Topic Grade Screen (see Figure 10). Selecting a grade displays the Specific Recommendations related to that Clinical Topic. Matching Keywords are highlighted (Figure 25).

Figure 24: Keyword Search Screen
Aspirin Use to Prevent Cardiovascular Disease and Colorectal Cancer, Preventive Medication, 2016

Aspirin Use to Prevent CVD and CRC: Preventive Medication — Adults aged 50 to 59 years with a ≥10% 10-year CVD risk

Grade: B (Recommended)

Specific Recommendations:
The USPSTF recommends initiating low-dose aspirin use for the primary prevention of cardiovascular disease (CVD) and colorectal cancer (CRC) in adults aged 50 to 59 years who have a 10% or greater 10-year CVD risk, are not at increased risk for bleeding, have a life expectancy of at least 10 years, and are willing to take low-dose aspirin daily for at least 10 years.

Frequency of Service:
The optimal dose of aspirin to prevent CVD events is not known. Primary prevention trials have demonstrated benefits with various regimens, including doses of 75 and 100 mg per day and 100 and 325 mg every other day. A dose of 75 mg per day seems as effective as higher doses. The risk for GI bleeding may increase with the dosage.

Figure 25: Keyword Search Results Screen
Information Screens

Select the More "***" tab on the tab bar to display general information (Figure 19) about the ePSS application, and to access specific features and customization options including:

- About
- Grade Definitions
- Browse by Grade
- Keyword Search
- Saved Searches
- Instructions for Use
- FAQ
- What's New
- Settings
- Subscribe
- Recommendations Disclaimer