Guideline Summary NGC-10889

Guideline Title
Screening for depression in adults: U.S. Preventive Services Task Force recommendation statement.

Bibliographic Source(s)

Guideline Status
This is the current release of the guideline.


This guideline meets NGC’s 2013 (revised) inclusion criteria.

Scope

Disease/Condition(s)
Depression

Guideline Category
Prevention
Screening

Clinical Specialty
Family Practice
Obstetrics and Gynecology
Preventive Medicine
Psychiatry
Psychology

Intended Users
Advanced Practice Nurses
Nurses
Physician Assistants
Physicians
Psychologists/Non-physician Behavioral Health Clinicians

Guideline Objective(s)
To update the 2009 U.S. Preventive Services Task Force (USPSTF) recommendation on screening for depression in adults

Target Population
Adults 18 years or older

Note: The guideline does not apply to children and adolescents, who are addressed in a separate U.S. Preventive Services Task Force (USPSTF) recommendation statement.

Interventions and Practices Considered
Screening for depression

Major Outcomes Considered
Pregnant and Postpartum Women

- **Key Question 1:** Do primary care depression screening programs in pregnant and postpartum women result in improved health outcomes (decreased depressive symptomatology; decreased suicide deaths, attempts, or ideation; improved functioning; improved quality of life; or improved health status)?
  - a. Does sending depression screening test results to providers (with or without additional care management supports) result in improved health outcomes?
  - b. Does the effect of screening vary by population characteristics?*

- **Key Question 2:** What is the test performance of the most commonly used primary care depression screening instruments in pregnant and postpartum women?
  - a. Do the test performance characteristics of the screening instruments vary by population characteristics?*

- **Key Question 3:** What are the harms associated with primary care depression screening programs in pregnant and postpartum women?
Description of Methods Used to Collect/Select the Evidence

Methodology

Methods Used to Collect/Select the Evidence

- Hand-searches of Published Literature (Primary Sources)
- Hand-searches of Published Literature (Secondary Sources)
- Searches of Electronic Databases

Description of Methods Used to Collect/Select the Evidence

Note from the National Guideline Clearinghouse (NGC): An evidence synthesis was prepared by the Kaiser Permanente Research Affiliates Evidence-based Practice Center (EPC) for use by the U.S. Preventive Services Task Force (USPSTF) (see the "Availability of Companion Documents" field).

Data Sources and Searches

The investigators conducted an initial search for existing synthesized literature and guidelines related to depression screening and treatment in MEDLINE/PubMed, the Database of Abstracts of Reviews of Effects, the Cochrane Database of Systematic Reviews, BMJ Clinical Evidence, the Institute of Medicine, the National Institute for Health and Clinical Excellence, PsycINFO, the Agency for Healthcare Research and Quality (AHRQ), the American Psychiatric Association, the American Psychological Association, the Campbell Collaboration, the Canadian Agency for Drugs and Technologies in Health, the National Health Services' Health Technology Assessment Programme, and the Centre for Reviews and Dissemination from 2008 through October 3, 2013. The search strategies are listed in Appendix B in the evidence synthesis.

For pregnant and postpartum women, the investigators systematically evaluated all relevant reviews through abstract and full-text review, and identified existing systematic reviews to use as foundational reviews for benefits and harms of screening and treatment, based on the approach outlined by Whitlock and colleagues. They identified three good-quality reviews that served as foundational reviews. The investigators chose these reviews based on relevance (i.e., inclusion and exclusion criteria that were at least as inclusive as their review), having conducted a good-quality search, having reported good-quality article evaluation methods, and recency. For the question of harms of antidepressants (key question 5), the foundational review was of sufficient quality and the evidence base was so extensive that the investigators used this review directly as evidence in their report and did not reevaluate individual studies included in this review. They used the other two foundational reviews as the starting point for study identification for other key questions related to pregnant and postpartum women, and then searched for additional original research published after the search windows of these foundational reviews. The investigators evaluated all studies included in each of these foundational reviews against the a priori inclusion/exclusion criteria. Then they searched for newly published literature bridging from these foundational reviews. For general adult populations, the investigators evaluated all included studies in the previous USPSTF review in addition to searching for newly published literature.

The investigators searched for newly published literature in the following databases: MEDLINE/PubMed, PsycINFO, and the Cochrane Central Register of Controlled Trials through January 20, 2015 (see Appendix B in the evidence synthesis). In general adult populations, they searched from January 1, 2009, bridging from the previous USPSTF review. The investigators began the bridge search for pregnant and postpartum women from January 1, 2012, since there was at least one foundational review with a search period for each key question for pregnant and postpartum women that extended into 2012. They also reviewed reference lists of relevant studies and reviews to identify additional potentially relevant studies that were not identified by the literature searches or foundational reviews. The investigators managed literature search results using the bibliographic management software program Reference Manager®, version 12.0 (Thomson Reuters, New York, NY).

Study Selection

Two investigators independently reviewed titles and abstracts using an online platform (Abstractr) against prespecified inclusion and exclusion criteria (see Appendix B Tables 1 and 2 in the evidence synthesis). Full-text articles were reviewed by two investigators for a final inclusion/exclusion decision. Disagreements were resolved through discussion or consultation with the other investigators. A list of excluded studies after full-text review, including the reasons for exclusion, is available in Appendix C in the evidence synthesis.

The investigators included fair- and good-quality studies published in the English language that were conducted among adults age 18 years and older living in countries ranked as having "very high" human development according to the World Health Organization (WHO), including:

- Randomized, controlled trials (RCTs) and nonrandomized, controlled clinical trials (CCTs) examining benefits or harms of screening or treatment (psychotherapy, pharmacotherapy, or collaborative care) in pregnant and postpartum women
- Studies of diagnostic accuracy of the Patient Health Questionnaire (PHQ) or Edinburgh Postnatal Depression Scale (EPDS) in pregnant and postpartum women
- Systematic reviews, RCTs, CCTs, or large comparative observational studies that examined harms of antidepressants in pregnant or postpartum women
- RCTs and CCTs examining benefits or harms of screening in general or older adult populations

The investigators defined postpartum women as those whose babies were younger than age 1 year at study enrollment. They required that studies assessing the benefits and harms of screening for either population be conducted in a primary care setting, including obstetrics/gynecology or pediatrics for postpartum depression screening. Studies limited to persons with other medical or mental health conditions were excluded; however, the investigators did not exclude studies that included some persons with such conditions, as long as it was not a requirement of participation. They did not exclude screening studies that included participants who already had a chart diagnosis of depression or were being treated for depression. Studies of depression screening could also include additional treatment elements, as long as the screening test results were given to the primary care provider. The investigators required that the control group participants either were not screened or did not have their screening test results sent to their provider. Studies of psychotherapy (examined only for pregnant and postpartum women) could additionally take place in virtual (i.e., online or computer-based) or mental health clinic settings. The investigators required that studies of depression treatment use population-based screening to identify eligible patients. They considered studies to include population-based screening if they attempted to recruit all or a consecutive or random subset of women in a specific setting or population during the study's recruitment window, with individual outreach to potential participants for depression screening as part of determination of study eligibility. Thus, the investigators excluded studies in which recruitment was based on referral, from populations of patients with known or likely depression (e.g., persons identified as having depression in their medical charts), or from volunteers recruited through media or other advertising. Control groups in treatment studies could include usual care, no intervention, waitlist, attention control, or a minimal intervention.
The investigators excluded trials exploring the efficacy of complementary and alternative therapies, such as yoga, exercise, transcranial stimulation, and dietary supplements such as St. John's wort, since they are not widely used in primary care settings. They also excluded trials focused on second-line treatments for severe depression when first-line treatments are not effective, such as polypharmacy and electroconvulsive therapy.

The investigators required minimum follow-up of 6 weeks for studies of benefits or screening and treatment, and harms of psychotherapy or collaborative care interventions. They had no minimum follow-up for harms of antidepressants.

For diagnostic accuracy studies (examined only for pregnant and postpartum women), the time between the index and reference tests could not exceed 2 weeks on average. In addition, these studies must have had patients covering a wide spectrum of symptom severity, comparable to what would occur in typical primary care settings, including those without symptoms, those with subclinical symptomatology, and those with diagnostic-level symptomatology (i.e., case-control designs were excluded). A valid reference standard was a structured or semistructured diagnostic interview with a trained interviewer or a nonbrief (>5 minutes) unstructured interview with a mental health clinician. Studies that only gave the reference test to a subset of participants had to make appropriate adjustments to their analysis or provide sufficient data to allow us to adjust the analysis. Studies had to report sensitivity, specificity, positive predictive value (PPV) or negative predictive value (NPV), or the raw data to allow us to calculate diagnostic accuracy.

The investigators included a variety of study designs in examination of harms of antidepressants in pregnant and postpartum women. Their primary data source was one of the foundational reviews that included extensive information on harms of antidepressant treatment. The investigators focused on serious maternal or fetal/harmful outcomes. Maternal harms included suicide, serotonin syndrome, cardiac effects, seizures (bupropion only), bleeding, cardiometabolic effects, and preeclampsia. Infant harms included neonatal death, major malformations, small for gestational age/low birth weight, cardiopulmonary effects, and other serious events requiring medical attention. Comparative cohort studies had to be large (minimum of 10 cases in each exposure group) and include appropriate control group participants who were not taking antidepressants.

### Number of Source Documents

The investigators screened 6,936 abstracts and identified 71 studies that reported results in 91 publications. For pregnant and postpartum women, they included six trials addressing the benefits or harms of screening, 26 diagnostic accuracy studies, and 32 studies that assessed the benefits or harms of treatment. This final group included one recent systematic review on the harms of antidepressants. In general and older adults, the investigators included nine trials that addressed the benefits or harms of screening. See Appendix B Figures 1 and 2 in the evidence synthesis (see the "Availability of Companion Documents" field) for flow diagrams of the literature search for pregnant/postpartum women and the general adult population, including older adults.

#### Pregnant and Postpartum Women

- **Key Question 1**: 8 articles (6 studies)
- **Key Question 2**: 22 articles (28 studies)
- **Key Question 3**: 1 article (1 study)
- **Key Question 4**: 22 articles (18 studies)
- **Key Question 5**: 15 articles (13 studies + 1 systematic evidence review [SER])

#### General Adult Population, Including Older Adults

- **Key Question 1**: 17 articles (9 studies)
- **Key Question 2**: 5 articles (2 studies)

### Methods Used to Assess the Quality and Strength of the Evidence

#### Weighting According to a Rating Scheme (Scheme Given)

#### Rating Scheme for the Strength of the Evidence

Two investigators independently assessed the quality of the included studies by using criteria defined by the U.S. Preventive Services Task Force (USPSTF) and supplemented with criteria from the Quality Assessment of Diagnostic Accuracy 2 (QUADAS-2) for diagnostic accuracy studies, the Newcastle-Ottawa Scale (NOS) for observational studies, and A Measurement Tool to Assess Systematic Reviews (AMSTAR) for systematic reviews. Each study was assigned a final quality rating of good, fair, or poor. See the "Description of the Methods Used to Analyze the Evidence" field for further information.

### Methods Used to Analyze the Evidence

#### Meta-Analysis

#### Review of Published Meta-Analyses

#### Systematic Review with Evidence Tables

### Description of the Methods Used to Analyze the Evidence

**Note from the National Guideline Clearinghouse (NGC):** An evidence synthesis was prepared by the Kaiser Permanente Research Affiliates Evidence-based Practice Center (EPC) for use by the U.S. Preventive Services Task Force (USPSTF) (see the "Availability of Companion Documents" field).

#### Quality Assessment and Data Abstraction

Two investigators independently assessed the quality of included studies using criteria defined by the USPSTF and supplemented it with criteria from the Quality Assessment of Diagnostic Accuracy 2 and the Newcastle-Ottawa Scale for diagnostic accuracy and observational studies, respectively (see Appendix B Table 3 in the evidence synthesis). They also used the Assessment of Multiple Systematic Reviews (AMSTAR) to assess the quality of the foundational evidence review used for harms of antidepressant treatment in pregnant and postpartum women. Each study was assigned a final quality rating of good, fair, or poor and disagreements were resolved through discussion.

The investigators excluded studies rated as poor quality (i.e., attrition >40%, differential attrition of >20%, other "fatal flaws," or the cumulative effects of multiple minor flaws and/or missing important information significant enough to limit the confidence in the validity of the results). Good-quality studies included all or most of the following: adequate randomization procedures, allocation concealment, blinding of outcome assessors, reliable outcome measures, comparable groups at baseline (with specified eligibility criteria), low attrition, acceptable statistical methods, and adequate and faithful adherence to the intervention. They rated studies as fair quality if they did not meet most of the good-quality criteria.

One investigator abstracted data from all included studies into a Microsoft Access® database (Microsoft Corporation, Redmond, WA) and a second investigator checked the data for accuracy. The investigators abstracted study design characteristics, population demographics, baseline history of depression and other mental health conditions, screening and intervention details (if applicable), depression outcomes, other health outcomes (e.g., suicidality, mortality, quality of life, functioning, health status, child/infant outcomes, emergency department visits, or inpatient stays), adverse events, and diagnostic accuracy outcomes (if applicable).

#### Data Synthesis and Analysis

The investigators created summary tables for all key questions showing study, population, and intervention details (if applicable) and outcomes for qualitative evidence synthesis. They used these tables and forest plots of results to examine data for consistency, precision, and relationship of effect size with key potential modifiers such as treatment contact time, control group recovery or response, and time to follow-up. The investigators had sufficient data with acceptable comparability between studies to conduct meta-analysis only for trials examining the benefits of cognitive behavioral therapy (CBT) or related approaches to treat depression in pregnant and postpartum women compared to usual care or other control conditions. The investigators ran a random-effects model using the DerSimonian and Laird pooled estimate, which they felt was acceptable given that the body of evidence for this outcome consisted of 10 studies, with low statistical heterogeneity and fairly comparable sample sizes. Because the number of studies was fairly small, the investigators also ran a sensitivity analysis using a restricted maximum likelihood model with the Knapp-Hartung modification for small samples. They
Methods Used to Formulate the Recommendations

Balance Sheets

Expert Consensus

Description of Methods Used to Formulate the Recommendations

The U.S. Preventive Services Task Force (USPSTF) systematically reviews the evidence concerning both the benefits and harms of widespread implementation of a preventive service. It then assesses the certainty of the evidence and the magnitude of the benefits and harms. On the basis of this assessment, the USPSTF assigns a letter grade to each preventive service signifying its recommendation about provision of the service (see Table below). An important, but often challenging, step is determining the balance between benefits and harms to estimate "net benefit" (that is, benefits minus harms).

USPSTF Preventive Services Task Force Recommendation Grid

<table>
<thead>
<tr>
<th>Certainty of Net Benefit</th>
<th>Magnitude of Net Benefit</th>
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<tbody>
<tr>
<td></td>
<td>Substantial</td>
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<td></td>
<td>Moderate</td>
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<td>Zero/Negative</td>
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<td>C</td>
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<td></td>
<td>D</td>
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* A, B, C, D, and I (Insufficient) represent the letter grades of recommendation or statement of insufficient evidence assigned by the USPSTF after assessing certainty and magnitude of net benefit of the service (see the "Rating Scheme for the Strength of the Recommendations" field).

The overarching question that the USPSTF seeks to answer for every preventive service is whether evidence suggests that provision of the service would improve health outcomes if implemented in a general primary care population. For screening topics, this standard could be met by a large randomized controlled trial (RCT) in a representative asymptomatic population with follow-up of all members of both the group "invited for screening" and the group "not invited for screening." Direct RCT evidence about screening is often unavailable, so the USPSTF considers indirect evidence. To guide its selection of indirect evidence, the Task Force constructs a "chain of evidence" within an analytic framework. For each key question, the body of pertinent literature is critically appraised, focusing on the following 6 questions:

1. Do the studies have the appropriate research design to answer the key question(s)?
2. To what extent are the existing studies of high quality? (i.e., what is the internal validity?)
3. To what extent are the results of the studies generalizable to the general U.S. primary care population and situation? (i.e., what is the external validity?)
4. How many studies have been conducted that address the key question(s)? How large are the studies? (i.e., what is the precision of the evidence?)
5. How consistent are the results of the studies?
6. Are there additional factors that assist the USPSTF in drawing conclusions (e.g., presence or absence of dose–response effects, fit within a biologic model)?

The next step in the USPSTF process is to use the evidence from the key questions to assess whether there would be net benefit if the service were implemented. In 2001, the USPSTF published an article that documented its systematic processes of evidence evaluation and recommendation development. At that time, the USPSTF's overall assessment of evidence was described as good, fair, or poor. The USPSTF realized that this rating seemed to apply only to how well studies were conducted and did not fully capture all of the issues that go into an overall assessment of the evidence about net benefit. To avoid confusion, the USPSTF has changed its terminology. Whereas individual study quality will continue to be characterized as good, fair, or poor, the term certainty will now be used to describe the USPSTF's assessment of the overall body of evidence about net benefit of a preventive service and the likelihood that the assessment is correct. Certainty will be determined by considering all 6 questions listed above; the judgment about certainty will be described as high, moderate, or low.

In making its assessment of certainty about net benefit, the evaluation of the evidence from each key question plays a primary role. It is important to note that the USPSTF makes recommendations for real-world medical practice in the United States and must determine to what extent the evidence for each key question—even evidence from screening RCTs or treatment RCTs—can be applied to the general primary care population. Frequently, studies are conducted in highly selected populations under special conditions. The USPSTF must consider differences between the general primary care population and the populations studied in RCTs and make judgments about the likelihood of observing the same effect in actual practice.

It is also important to note that one of the key questions in the analytic framework refers to the potential harms of the preventive service. The USPSTF considers the evidence about the benefits and harms of preventive services separately and equally. Data about harms are often obtained from observational studies because harms observed in RCTs may not be representative of those found in usual practice and because some harms are not completely measured and reported in RCTs.

Putting the body of evidence for all key questions together as a chain, the USPSTF assesses the certainty of net benefit of a preventive service by asking the 6 major questions listed above. The USPSTF would rate a body of evidence about the benefits of a service that, for example, derives from several RCTs of screening in which the estimate of benefits can be generalized to the general primary care population as "high" certainty (see the "Rating Scheme for the Strength of the Recommendations" field). The USPSTF would rate a body of evidence that was not clearly applicable to general practice or has other defects in quality, research design, or consistency of studies as "moderate" certainty. Certainty is "low" when, for example, there are gaps in the evidence linking parts of the analytic framework, when evidence to determine the harms of treatment is unavailable, or when evidence about the benefits of treatment is insufficient. Table 4 in the methodology document listed below (see the "Availability of Companion Documents" field) summarizes the current terminology used by the USPSTF to describe the critical assessment of evidence at all 3 levels: individual studies, key questions, and overall certainty of net benefit of the preventive service.


Rating Scheme for the Strength of the Recommendations

What the U.S. Preventive Services Task Force (USPSTF) Grades Mean and Suggestions for Practice

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>A</td>
<td>The USPSTF recommends the service. There is high certainty that the net benefit is substantial.</td>
<td>Offer/provide this service.</td>
</tr>
<tr>
<td>B</td>
<td>The USPSTF recommends the service. There is high certainty that the net benefit is moderate or there is moderate certainty that the net benefit is moderate to substantial.</td>
<td>Offer/provide this service.</td>
</tr>
<tr>
<td>C</td>
<td>The USPSTF recommends selectively offering or providing this service</td>
<td>Offer/provide this service for selected patients depending on</td>
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</table>
The U.S. Preventive Services Task Force (USPSTF) grades its recommendations (A, B, C, D, or I) and identifies the Levels of Certainty regarding Net Benefit (High, Moderate, or Low) based on the available evidence. The USPSTF does not consider the costs of providing a service in this assessment. Cost analysis is not included in the recommendations. The USPSTF uses a peer review process to ensure the recommendations are evidence-based and reliable. The recommendations are revised based on public comment and may be updated as new evidence becomes available.
The USPSTF recommends screening for depression in the general adult population, including pregnant and postpartum women. Screening should be implemented with adequate systems in place to ensure accurate diagnosis, effective treatment, and appropriate follow-up. (B recommendation)

Clinical Considerations

Patient Population Under Consideration

This recommendation applies to adults 18 years and older (see Figure 2 in the original guideline document). It does not apply to children and adolescents, who are addressed in a separate USPSTF recommendation statement (see the National Guideline Clearinghouse [NGC] summary of the USPSTF guideline Screening for depression in children and adolescents: U.S. Preventive Services Task Force recommendation statement).

Assessment of Risk

The USPSTF recommends screening in all adults regardless of risk factors. However, a number of factors are associated with an increased risk of depression. Among general adult populations, prevalence rates vary by sex, age, race/ethnicity, education, marital status, geographic location, and employment status. Women, young and middle-aged adults, and nonwhite persons have higher rates of depression than their counterparts, as do persons who are undereducated, previously married, or unemployed. Other groups who are at increased risk of developing depression include persons with chronic illnesses (e.g., cancer or cardiovascular disease), other mental health disorders (including substance misuse), or a family history of psychiatric disorders.

Among older adults, risk factors for depression include disability and poor health status related to medical illness, complicated grief, chronic sleep disturbance, loneliness, and a history of depression. However, the presence or absence of risk factors alone cannot distinguish patients with depression from those without depression.

Risk factors for depression during pregnancy and postpartum include poor self-esteem, child-care stress, prenatal anxiety, life stress, decreased social support, single/unpartnered relationship status, history of depression, difficult infant temperament, previous postpartum depression, lower socioeconomic status, and unintended pregnancy.

Screening Tests

Commonly used depression screening instruments include the Patient Health Questionnaire (PHQ) in various forms and the Hospital Anxiety and Depression Scales in adults, the Geriatric Depression Scale in older adults, and the Edinburgh Postnatal Depression Scale (EPDS) in postpartum and pregnant women. All positive screening results should lead to additional assessment that considers severity of depression and comorbid psychological problems (e.g., anxiety, panic attacks, or substance abuse), alternate diagnoses, and medical conditions.

Screening Timing and Interval

There is little evidence regarding the optimal timing for screening. The optimum interval for screening for depression is also unknown; more evidence for all populations is needed to identify ideal screening intervals. A pragmatic approach in the absence of data might include screening all adults who have not been screened previously and using clinical judgment in consideration of risk factors, comorbid conditions, and life events to determine if additional screening of high-risk patients is warranted.

Treatment

Effective treatment of depression in adults generally includes antidepressants or specific psychotherapy approaches (e.g., cognitive behavioral therapy [CBT] or brief psychosocial counseling), alone or in combination. Given the potential harms to the fetus and newborn child from certain pharmacologic agents, clinicians are encouraged to consider CBT or other evidence-based counseling interventions when managing depression in pregnant or breastfeeding women.

Other Approaches to Prevention

The Community Preventive Services Task Force, which makes evidence-based recommendations on preventive services for community populations, recommends collaborative care for the management of depression and at-risk disorders as part of a multicomponent system. Care system-level intervention that uses case managers to link primary care providers, patients, and mental health specialists. More information about the Community Preventive Services Task Force and its recommendations on depression interventions is available on its Web site (http://www.thecommunityguide.org). (6)

Definitions

What the U.S. Preventive Services Task Force (USPSTF) Grades Mean and Suggestions for Practice

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<td>The USPSTF recommends selectively offering or providing this service to individual patients based on professional judgment and patient preferences. There is at least moderate certainty that the net benefit is small.</td>
<td>Offer/provide this service for selected patients depending on individual circumstances.</td>
</tr>
<tr>
<td>D</td>
<td>The USPSTF recommends against the service. There is moderate or high certainty that the service has no net benefit or that the harms outweigh the benefits.</td>
<td>Discourage the use of this service.</td>
</tr>
<tr>
<td>I</td>
<td>The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of the service. Evidence is lacking, of poor quality or conflicting, and the balance of benefits and harms cannot be determined.</td>
<td>Read the &quot;Clinical Considerations&quot; section of the USPSTF Recommendation Statement (see the &quot;Major Recommendations&quot; field). If offered, patients should understand the uncertainty about the balance of benefits and harms.</td>
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</table>

USPSTF Levels of Certainty Regarding Net Benefit

Definition: The USPSTF defines certainty as "likelihood that the USPSTF assessment of the net benefit of a preventive service is correct." The net benefit is defined as benefit minus harm of the preventive service as implemented in a general, primary care population. The USPSTF assigns a certainty level based on the nature of the overall evidence available to assess the net benefit of a preventive service.

<table>
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<td>High</td>
<td>The available evidence usually includes consistent results from well-designed, well-conducted studies in representative primary care populations.</td>
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Useful Resources

The USPSTF has made recommendations on screening for depression in children and adolescents (see the NGC summary of the USPSTF guideline Screening for depression in children and adolescents: U.S. Preventive Services Task Force recommendation statement) and screening for suicide risk in adolescents, adults, and older adults (see the NGC summary of the USPSTF guideline Screening for suicide risk in adolescents, adults, and older adults in primary care: U.S. Preventive Services Task Force recommendation statement).

The Substance Abuse and Mental Health Services Administration maintains a national registry of evidence-based programs and practices for substance abuse and mental health interventions (http://nrepp.samhsa.gov/) that may be helpful for clinicians looking for models of how to implement depression screening.
populations. These studies assess the effects of the preventive service on health outcomes. This conclusion is therefore unlikely to be strongly affected by the results of future studies.

**Moderate**

The available evidence is sufficient to determine the effects of the preventive service on health outcomes, but confidence in the estimate is constrained by factors such as:

- The number, size, or quality of individual studies
- Inconsistency of findings across individual studies
- Limited generalizability of findings to routine primary care practice
- Lack of coherence in the chain of evidence

As more information becomes available, the magnitude or direction of the observed effect could change, and this change may be large enough to alter the conclusion.

**Low**

The available evidence is insufficient to assess effects on health outcomes. Evidence is insufficient because of:

- The limited number or size of studies
- Important flaws in study design or methods
- Inconsistency of findings across individual studies
- Gaps in the chain of evidence
- Findings not generalizable to routine primary care practice
- A lack of information on important health outcomes

More information may allow an estimation of effects on health outcomes.

### Clinical Algorithm(s)

None available

### Evidence Supporting the Recommendations

**Type of Evidence Supporting the Recommendations**

The type of evidence supporting the recommendations is not specifically stated.

### Benefits/Harms of Implementing the Guideline Recommendations

#### Potential Benefits

**Benefits of Early Detection and Intervention and Treatment**

The U.S. Preventive Services Task Force (USPSTF) found adequate evidence that programs combining depression screening with adequate support systems in place improve clinical outcomes (i.e., reduction or remission of depression symptoms) in adults, including pregnant and postpartum women.

The USPSTF found convincing evidence that treatment of adults and older adults with depression identified through screening in primary care settings with antidepressants, psychotherapy, or both decreases clinical morbidity.

The USPSTF also found adequate evidence that treatment with cognitive behavioral therapy (CBT) improves clinical outcomes in pregnant and postpartum women with depression.

#### Potential Harms

**Harms of Early Detection and Intervention and Treatment**

The U.S. Preventive Services Task Force (USPSTF) found adequate evidence that the magnitude of harms of screening for depression in adults is small to none.

The USPSTF found adequate evidence that the magnitude of harms of treatment with cognitive behavioral therapy (CBT) in postpartum and pregnant women is small to none.

The USPSTF found that second-generation antidepressants (mostly selective serotonin reuptake inhibitors [SSRIs]) are associated with some harms, such as an increase in suicidal behaviors in adults aged 18 to 29 years and an increased risk of upper gastrointestinal bleeding in adults older than 70 years, with risk increasing with age; however, the magnitude of these risks is, on average, small. The USPSTF found evidence of potential serious fetal harms from pharmacologic treatment of depression in pregnant women, but the likelihood of these serious harms is low. Therefore, the USPSTF concludes that the overall magnitude of harms is small to moderate.

### Qualifying Statements

#### Qualifying Statements

- The U.S. Preventive Services Task Force (USPSTF) makes recommendations about the effectiveness of specific clinical preventive services for patients without obvious related signs or symptoms.
- It bases its recommendations on the evidence of both the benefits and harms of the service and an assessment of the balance. The USPSTF does not consider the costs of providing a service in this assessment.
- The USPSTF recognizes that clinical decisions involve more considerations than evidence alone. Clinicians should understand the evidence but individualize decision making to the specific patient or situation. Similarly, the USPSTF notes that policy and coverage decisions involve considerations in addition to the evidence of clinical benefits and harms.
- Recommendations made by the USPSTF are independent of the U.S. government. They should not be construed as an official position of the Agency for Healthcare Research and Quality (AHRQ) or the U.S. Department of Health and Human Services.

### Implementation of the Guideline

#### Description of Implementation Strategy

The experiences of the first and second U.S. Preventive Services Task Force (USPSTF), as well as that of other evidence-based guideline efforts, have highlighted the importance of identifying effective ways to implement clinical recommendations. Practice guidelines are relatively weak tools for changing clinical practice when used in isolation. To effect change, guidelines must be coupled with strategies to improve their acceptance and feasibility. Such strategies include enlisting the support of local opinion leaders, using reminder systems for clinicians and patients, adopting standing orders, and audit and feedback of information to clinicians about their compliance with recommended practice.

In the case of preventive services guidelines, implementation needs to go beyond traditional dissemination and promotion efforts to recognize the added patient and clinician
barriers that affect preventive care. These include clinicians' ambivalence about whether preventive medicine is part of their job, the psychological and practical challenges that patients face in changing behaviors, lack of access to health care or of insurance coverage for preventive services for some patients, competing pressures within the context of shorter office visits, and the lack of organized systems in most practices to ensure the delivery of recommended preventive care.

Dissemination strategies have changed dramatically in this age of electronic information. While recognizing the continuing value of journals and other print formats for dissemination, the USPSTF will make all its products available through its Web site. The combination of electronic access and extensive material in the public domain should make it easier for a broad audience of users to access USPSTF materials and adapt them for their local needs. Online access to USPSTF products also opens up new possibilities for the appearance of the annual, pocket-size Guide to Clinical Preventive Services.

To be successful, approaches for implementing prevention have to be tailored to the local level and deal with the specific barriers at a given site, typically requiring the redesign of systems of care. Such a systems approach to prevention has had notable success in established staff-model health maintenance organizations, by addressing organization of care, emphasizing a philosophy of prevention, and altering the training and incentives for clinicians. Staff-model plans also benefit from integrated information systems that can track the use of needed services and generate automatic reminders aimed at patients and clinicians, some of the most consistently successful interventions. Information systems remain a major challenge for individual clinicians' offices, however, as well as for looser affiliations of practices in network-model managed care and independent practice associations, where data on patient visits, referrals, and test results are not always centralized.

Implementation Tools

Foreign Language Translations
Mobile Device Resources
Patient Resources
Pocket Guide/Reference Cards
Staff Training/Competency Material

For information about availability, see the Availability of Companion Documents and Related Resources fields below.

Institute of Medicine (IOM) National Healthcare Quality Report Categories

IOM Care Need
Improving Care
Efficiency
Staying Healthy

IOM Domain
Effectiveness
Patient-centeredness

Identifying Information and Availability

Bibliographic Source(s)


Adaptation

Not applicable: The guideline was not adapted from another source.

Date Released

2016 Jan 26

Guideline Developer(s)

U.S. Preventive Services Task Force - Independent Expert Panel

Guideline Developer Comment

The U.S. Preventive Services Task Force (USPSTF) is an federally-appointed panel of independent experts. Conclusions of the USPSTF do not necessarily reflect policy of the U.S. Department of Health and Human Services (DHHS) or its agencies.

Source(s) of Funding

The U.S. Preventive Services Task Force (USPSTF) is an independent, voluntary body. The U.S. Congress mandates that the Agency for Healthcare Research and Quality (AHRQ) support the operations of the USPSTF.

Guideline Committee

U.S. Preventive Services Task Force (USPSTF)

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Financial Disclosures/Conflicts of Interest

The U.S. Preventive Services Task Force (USPSTF) has an explicit policy concerning conflict of interest. All members disclose at each meeting if they have a significant financial, professional/business, or intellectual conflict for each topic being discussed. USPSTF members with conflicts may be recused from discussing or voting on recommendations about the topic in question.

Conflict of Interest Disclosures

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Guideline Status

This is the current release of the guideline.


This guideline meets NGC’s 2013 (revised) inclusion criteria.

Guideline Availability


Availability of Companion Documents

The following are available:

Evidence Reviews:

Available from the U.S. Preventive Services Task Force (USPSTF) Web site.

Background Articles:

Available from the USPSTF Web site.

The following are also available:
- A continuing medical education (CME) activity is available free with registration from the Journal of the American Medical Association (JAMA) Web site.

The Electronic Preventive Services Selector (ePSS) is an application designed to provide primary care clinicians and health care teams timely decision support regarding appropriate screening, counseling, and preventive services for their patients. It is based on the current, evidence-based recommendations of the USPSTF and can be searched by specific patient characteristics, such as age, sex, and selected behavioral risk factors.

Patient Resources

The following are available:

Myhealthfinder is a tool that provides personalized recommendations for clinical preventive services specific to the user’s age, gender, and pregnancy status. It features evidence-based recommendations from the USPSTF and is available at www.healthfinder.gov.

Please note: This patient information is intended to provide health professionals with information to share with their patients to help them better understand their health and their diagnosed disorders. By providing access to this patient information, it is not the intention of NGC to provide specific medical advice for particular patients. Rather we urge patients and their representatives to review this material and then to consult with a licensed health professional for evaluation of treatment options suitable for them as well as for diagnosis and answers to their personal medical questions. This patient information has been derived and prepared from a guideline for health care professionals included on NGC by the authors or publishers of that original guideline. The patient information is not reviewed by NGC to establish whether or not it accurately reflects the original guideline’s content.

NGC Status

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