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# Screening for Gynecologic Conditions With Pelvic Examination US Preventive Services Task Force Recommendation Statement

Kirsten Bibbins-Domingo  
*University of California, San Francisco*

David C. Grossman  
*Group Health Research Institute*

Susan J. Curry  
*University of Iowa*

*See next page for additional authors*

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**Authors**

Kirsten Bibbins-Domingo, David C. Grossman, Susan J. Curry, Michael J. Barry, Karina W. Davidson, Chyke A. Doubeni, John W. Epling Jr, Francisco A. R. García, Alex R. Kemper, Alex H. Krist, Ann E. Kurth, C. Seth Landefeld, Carol M. Mangione, William R. Phillips, Maureen G. Phipps, Michael Silverstein, Melissa Simon, Albert L. Siu, and Chien-Wen Tseng

# Screening for Gynecologic Conditions With Pelvic Examination

## US Preventive Services Task Force Recommendation Statement

US Preventive Services Task Force

**IMPORTANCE** Many conditions that can affect women's health are often evaluated through pelvic examination. Although the pelvic examination is a common part of the physical examination, it is unclear whether performing screening pelvic examinations in asymptomatic women has a significant effect on disease morbidity and mortality.

**OBJECTIVE** To issue a new US Preventive Services Task Force (USPSTF) recommendation on screening for gynecologic conditions with pelvic examination for conditions other than cervical cancer, gonorrhea, and chlamydia, for which the USPSTF has already made specific recommendations.

**EVIDENCE REVIEW** The USPSTF reviewed the evidence on the accuracy, benefits, and potential harms of performing screening pelvic examinations in asymptomatic, nonpregnant adult women 18 years and older who are not at increased risk for any specific gynecologic condition.

**FINDINGS** Overall, the USPSTF found inadequate evidence on screening pelvic examinations for the early detection and treatment of a range of gynecologic conditions in asymptomatic, nonpregnant adult women.

**CONCLUSIONS AND RECOMMENDATION** The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of performing screening pelvic examinations in asymptomatic, nonpregnant adult women. (I statement) This statement does not apply to specific disorders for which the USPSTF already recommends screening (ie, screening for cervical cancer with a Papanicolaou smear, screening for gonorrhea and chlamydia).

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**Author/Group Information:** The US Preventive Services Task Force (USPSTF) members are listed at the end of this article.

**Corresponding Author:** Kirsten Bibbins-Domingo, PhD, MD, MAS (chair@uspstf.net).

**T**he US Preventive Services Task Force (USPSTF) makes recommendations about the effectiveness of specific preventive care 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.

### Summary of Recommendation and Evidence

The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of performing screening

pelvic examinations in asymptomatic, nonpregnant adult women (I statement) (Figure 1).

This statement does not apply to specific disorders for which the USPSTF already recommends screening (ie, screening for cervical cancer with a Papanicolaou ["Pap"] smear, screening for gonorrhea and chlamydia). See the eTable in the Supplement.

### Rationale

#### Importance

Many conditions that can affect women's health are often evaluated through pelvic examination. These conditions include but are not limited to malignant diseases, such as ovarian, uterine, vaginal, and cervical cancer; infectious diseases, such as bacterial vaginosis, candidiasis, genital warts, genital herpes, trichomoniasis, and pelvic inflammatory disease; and other benign conditions, such as cervical polyps, endometriosis, ovarian cysts, dysfunction of the pelvic wall and floor, and uterine fibroids. Pelvic examination is a common part of the physical examination; in 2012, an

Figure 1. US Preventive Services Task Force Grades and Levels of Certainty

What the USPSTF Grades Mean and Suggestions for Practice		
Grade	Definition	Suggestions for Practice
A	The USPSTF recommends the service. There is high certainty that the net benefit is substantial.	Offer or provide this service.
B	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.	Offer or provide this service.
C	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.	Offer or provide this service for selected patients depending on individual circumstances.
D	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.	Discourage the use of this service.
I statement	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.	Read the Clinical Considerations section of the USPSTF Recommendation Statement. If the service is offered, patients should understand the uncertainty about the balance of benefits and harms.

USPSTF Levels of Certainty Regarding Net Benefit	
Level of Certainty	Description
High	The available evidence usually includes consistent results from well-designed, well-conducted studies in representative primary care 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 such factors 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. lack of information on important health outcomes. More information may allow estimation of effects on health outcomes.
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.	

estimated 44.2 million pelvic examinations were performed in the United States.<sup>1</sup> Although the pelvic examination is a common part of the physical examination, it is unclear whether performing screening pelvic examinations in asymptomatic women reduces morbidity and mortality.

The USPSTF has made separate recommendations on screening for cervical cancer,<sup>2</sup> gonorrhea,<sup>3</sup> and chlamydia<sup>3</sup> using tests that are often performed during a pelvic examination (eg, Pap smear, human papillomavirus test, and nucleic acid amplification tests); in this recommendation statement, the USPSTF seeks to understand the utility of performing screening pelvic examinations for other gynecologic conditions. Although the USPSTF sought evidence on the effectiveness of using pelvic examination to screen for all asymptom-

atic gynecologic conditions other than cervical cancer, chlamydia, and gonorrhea, it was only able to identify limited evidence on its accuracy to detect ovarian cancer, bacterial vaginosis, genital herpes, and trichomoniasis.

**Detection**

The pelvic examination may include any of the following components, alone or in combination: assessment of the external genitalia, internal speculum examination, bimanual palpation, and rectovaginal examination. The USPSTF found inadequate evidence on the accuracy of pelvic examination to detect a range of gynecologic conditions. Limited evidence from studies evaluating the use of screening pelvic examination alone for ovarian cancer detection generally

Figure 2. Screening for Gynecologic Conditions With Pelvic Examination: Clinical Summary

Population	Asymptomatic, nonpregnant adult women who are not at increased risk for any specific gynecologic condition
Recommendation	No recommendation. Grade: I (insufficient evidence) Note: This statement does not apply to specific disorders for which the USPSTF already recommends screening (ie, screening for cervical cancer with a Pap smear, screening for gonorrhea and chlamydia).
Screening Tests	The pelvic examination may include any of the following components, alone or in combination: assessment of the external genitalia, internal speculum examination, bimanual palpation, and rectovaginal examination.
Balance of Benefits and Harms	The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of performing screening pelvic examinations in asymptomatic women for the early detection and treatment of a range of gynecologic conditions.
Other Relevant USPSTF Recommendations	The USPSTF has made recommendations on screening for cervical cancer, ovarian cancer, gonorrhea, and chlamydia, as well as counseling to prevent sexually transmitted infections. These recommendations are available on the USPSTF website ( <a href="https://www.uspreventiveservicestaskforce.org">https://www.uspreventiveservicestaskforce.org</a> ).

For a summary of the evidence systematically reviewed in making this recommendation, the full recommendation statement, and supporting documents, please go to <https://www.uspreventiveservicestaskforce.org>.



Pap indicates Papanicolaou.

reported low positive predictive values (0% to 3.6%).<sup>4</sup> Very few studies on screening for other gynecologic conditions with pelvic examination alone have been conducted,<sup>4,5</sup> and the USPSTF found that these studies have limited generalizability to the current population of asymptomatic women seen in primary care settings in the United States.

### Benefits of Screening

The USPSTF found inadequate evidence on the benefits of screening for a range of gynecologic conditions with pelvic examination. No studies were identified that evaluated the benefit of screening with pelvic examination on all-cause mortality, disease-specific morbidity or mortality, or quality of life.<sup>4</sup>

### Harms of Screening

The USPSTF found inadequate evidence on the harms of screening for a range of gynecologic conditions with pelvic examination. A few studies reported on false-positive rates for ovarian cancer, ranging from 1.2% to 8.6%, and false-negative rates, ranging from 0% to 100%. Among women who had abnormal findings on pelvic examination, 5% to 36% went on to have surgery.<sup>4</sup> Very few studies reported false-positive and false-negative rates for other gynecologic conditions.<sup>4</sup> No studies quantified the amount of anxiety associated with screening pelvic examinations.<sup>4</sup>

### USPSTF Assessment

The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of performing screening pelvic examinations in asymptomatic women for the early detection and treatment of a range of gynecologic conditions. Evidence is lacking and of poor quality, and the balance of benefits and harms cannot be determined.

## Clinical Considerations

### Patient Population Under Consideration

This recommendation applies to asymptomatic women 18 years and older (Figure 2) who are not at increased risk for any specific gynecologic conditions, such as ovarian or cervical cancer. The recommendation does not apply to pregnant women or adolescents.

### Suggestions for Practice Regarding the I Statement Potential Preventable Burden

Numerous gynecologic conditions may be detected during a screening pelvic examination. These include malignant diseases, such as ovarian, uterine, vaginal, and cervical cancer; infectious diseases, such as bacterial vaginosis, candidiasis, genital warts, genital herpes, trichomoniasis, and pelvic inflammatory disease; and other benign conditions, such as cervical polyps, endometriosis, ovarian cysts, dysfunction of the pelvic wall and floor, and uterine fibroids.

The accuracy of detecting and the benefit of treating some of these conditions early, while women are asymptomatic, is unknown. No studies evaluated the effectiveness of early diagnosis and treatment of screen-detected, asymptomatic gynecologic conditions compared with the diagnosis and treatment of symptomatic gynecologic conditions.<sup>4</sup> It is also unknown whether performing screening pelvic examinations more frequently than every 3 to 5 years (the recommended screening interval for cervical cancer) is beneficial. Although it is common practice to perform a pelvic examination as part of an annual physical examination, the benefit of performing screening pelvic examinations at this interval is unclear. The benefit of using pelvic examination alone to screen for gynecologic conditions other than cervical cancer, gonorrhea, and chlamydia is also unknown.

### Potential Harms

The USPSTF found limited evidence on the harms of screening with pelvic examination. Harms reported in studies included false-positive and false-negative results. Available evidence reports false-positive rates for ovarian cancer of 1.2% to 8.6% and false-negative rates of 0% to 100%.<sup>4</sup> Pelvic examination screening also could result in unnecessary diagnostic workup and treatment. In particular, there is a concern for potential invasive diagnostic procedures and treatment of ovarian cancer (such as surgery) that could result from evaluating abnormal findings on pelvic examination. In the reviewed studies, approximately 5% to 36% of women who had abnormal pelvic examination findings went on to have surgery.<sup>4</sup> The potential association between urinary tract infections and pelvic examinations was explored in a single study, with inconclusive results.<sup>6</sup> Additional theoretical harms of pelvic examination include psychological harms (anxiety), pain and discomfort from the examination, and the potential for these harms to serve as a barrier for women to receive medical care.

In the absence of clear evidence on the balance of benefits and harms of using pelvic examination to screen for asymptomatic gynecologic conditions, clinicians are encouraged to consider the patient's risk factors for various gynecologic conditions and the patient's values and preferences, and engage in shared decision making with the patient to determine whether to perform a pelvic examination.

### Current Practice

According to the National Ambulatory Medical Care Survey, an estimated 44.2 million pelvic examinations were performed in 2012.<sup>1</sup> In a 2010-2011 nationally representative survey of obstetricians and gynecologists, almost all surveyed clinicians indicated that they would perform a bimanual examination on asymptomatic patients during routine visits.<sup>7</sup> According to another survey performed in 2009, 78% of surveyed clinicians (including obstetricians/gynecologists, family or general practitioners, and internists) believed that pelvic examination is useful for screening for gynecologic cancer in asymptomatic women; approximately 50% to 60% reported believing that pelvic examination is useful for cervical cancer screening, 49% to 70% for ovarian cancer (70% of obstetrician/gynecologists vs 49% to 50% of internists and family practitioners), 39% to 45% for uterine cancer, 57% to 62% for vaginal cancer, and 53% to 62% for vulvar cancer (estimates are based on graphic display of data; exact numbers were not provided).<sup>8</sup> Nearly all surveyed clinicians (97%) believed that the pelvic examination included bimanual examination, while most (69%) believed that the pelvic examination included rectovaginal examination.<sup>8</sup>

## Other Considerations

### Research Needs and Gaps

The USPSTF recognizes that research on the effectiveness of the screening pelvic examination is difficult, given that multiple conditions could potentially be detected with this single preventive service. However, in reviewing the currently available evidence on the benefits and harms of performing screening pelvic examinations in asymptomatic adult women, the USPSTF identified the following

critical evidence gaps. Studies evaluating the accuracy and effectiveness of screening pelvic examination to detect conditions other than ovarian cancer, bacterial vaginosis, genital herpes, and trichomoniasis are lacking. Studies reporting on the harms of screening with pelvic examination (including quantified psychological harms) in asymptomatic women in primary care are also lacking.

Studies reporting the effects of performing routine screening pelvic examinations on health outcomes such as all-cause mortality, disease-specific morbidity and mortality, quality of life, and psychological benefits and harms could help fill the gaps in the existing evidence and inform future USPSTF recommendations. Studies evaluating and quantifying harms are needed, as well as studies evaluating the potential effectiveness of risk assessment tools to determine which women might benefit from a pelvic examination. Research is needed to clarify which indications primary care clinicians are currently using the screening pelvic examination for in asymptomatic patients and which components of the pelvic examination are performed most frequently. Studies exploring women's attitudes toward pelvic examinations, the outcomes women value from these examinations, and how pelvic examinations affect women's decisions to seek and obtain care are also needed to clarify the potential benefits and harms of providing this preventive service.

### Screening Tests

For the purposes of this recommendation, the term "pelvic examination" includes any of the following components, alone or in combination: assessment of the external genitalia, internal speculum examination, bimanual palpation, and rectovaginal examination.

### Useful Resources

Screening for cervical cancer, gonorrhea, and chlamydia are not included in this recommendation statement on screening pelvic examinations because they are already addressed in separate USPSTF recommendations.<sup>2,3</sup> Screening for ovarian cancer with preventive services other than pelvic examination is addressed in the USPSTF's recommendation on screening for ovarian cancer<sup>9</sup>; the USPSTF also has recommendations on counseling to prevent sexually transmitted infections.<sup>10</sup> The Women's Preventive Services Guidelines, supported by the Health Resources & Services Administration, is another resource.<sup>11</sup>

## Discussion

### Burden of Disease

Given the range of gynecologic conditions that could be detected with pelvic examination, the burden of disease varies depending on the specific condition. Some conditions, such as vaginal cancer, are rare, with an incidence rate of 0.7 cases per 100 000 women.<sup>4</sup> Other conditions, such as candidiasis, are relatively common, with nearly 75% of adult women reporting at least 1 occurrence.<sup>4</sup> Associated morbidity and mortality can also vary. Some conditions, such as ovarian cancer, are associated with a high mortality rate (5-year survival rate of 46.2%),<sup>12</sup> while other conditions, such as candidiasis, have no known associated mortality. More information on the burden and epidemiology of the numerous gynecologic conditions potentially detected by pelvic examination is available in Table 1 of the accompanying systematic evidence review.<sup>4</sup>

### Scope of Review

The USPSTF commissioned a systematic review to evaluate the evidence on the accuracy, benefits, and potential harms of performing screening pelvic examinations in asymptomatic, non-pregnant adult women 18 years and older. The review focused on asymptomatic gynecologic conditions commonly identified by clinicians as a reason for performing the screening pelvic examination, conditions for which detection of early-stage disease in asymptomatic patients is biologically and clinically plausible, and conditions for which another method of screening is not already addressed by a current USPSTF recommendation (ie, cervical cancer, gonorrhea, and chlamydia). The review excluded symptomatic conditions. The review included the following components of the pelvic examination: inspection of the external genitalia, urethral meatus, vaginal introitus, and perianal region; speculum examination of the vagina and cervix; bimanual palpation of the uterus, cervix, and adnexa; and rectovaginal examination of the posterior wall of the vagina.

### Accuracy of Screening Tests

The USPSTF found little evidence on the accuracy of screening pelvic examinations to detect various conditions; 4 studies (n = 26 432) reported on ovarian cancer, 2 studies (n = 930) on bacterial vaginosis, 1 study (n = 779) on genital herpes, and 1 study (n = 779) on trichomoniasis.

Of the 4 studies reporting on detection of ovarian cancer, the largest was the Prostate, Lung, Colorectal, and Ovarian (PLCO) Cancer Screening Trial,<sup>13</sup> conducted in the United States. The PLCO trial, a good-quality population-based, randomized trial, recruited women aged 55 to 74 years (mean age, 62.9 years) without a history of cancer. It evaluated screening for ovarian cancer with ultrasonography and blood testing for the tumor marker cancer antigen 125 but originally included palpation of the ovaries in its screening protocol. The ovarian palpation component was discontinued 5 years into the study because no cases of ovarian cancer were detected solely with bimanual palpation of the ovaries.<sup>13</sup> In a subanalysis that evaluated 20 872 participants who underwent ovarian palpation at least once, the yield of screening was 23 cancer cases (0.1%) detected over 1 year of follow-up and 72 cancer cases (0.3%) detected over 1 to 5 years of follow-up (Paul Pinsky, PhD, National Cancer Institute, written communication, May 2, 2016).<sup>14</sup> Over multiple rounds of screening (mean number, 2.4 [range, 1-4]), 96.7% of the ovarian cancer cases identified during the trial were not detected by palpation. The reported sensitivity and specificity for detection of ovarian cancer over 1 to 5 years of follow-up in the PLCO trial was 2.8% (95% CI, 0.6%-8.6%) and 98.8% (95% CI, 98.7%-99.0%), respectively. The other 3 fair-quality studies were conducted in Greece, Australia, and the United Kingdom and were generally much smaller (n = 1010 to 2550).<sup>4,15-17</sup> Outcomes were reported at 1 year of follow-up, and the range of sensitivity and specificity was 0% to 100% and 91.4% to 98.4%, respectively.<sup>4</sup>

The 4 studies that reported on the accuracy of pelvic examination to detect various infectious diseases (bacterial vaginosis, genital herpes, and trichomoniasis) were all fair-quality and conducted in the United States.<sup>4</sup> One study was conducted in a hospital setting,<sup>18</sup> while the other 3 were conducted in sexually transmitted infection clinics.<sup>19-21</sup> It is important to note that given the

settings of these studies, participants were more likely to represent higher-risk, symptomatic populations compared with women generally seen in primary care. The reported yield of screening was 38.7% to 47.0% of bacterial vaginosis cases, 47.8% of genital herpes cases, and 15.2% of trichomoniasis cases.<sup>4</sup> Depending on the specific clinical sign used in screening, reported sensitivity ranged from 2.3% to 78.8% for bacterial vaginosis,<sup>4,18,19</sup> from 14.2% to 19.6% for genital herpes,<sup>20</sup> and from 1.7% to 59.2% for trichomoniasis.<sup>21</sup> Specificity ranged from 48.4% to 100% for bacterial vaginosis,<sup>4,18,19</sup> from 97.1% to 97.5% for genital herpes,<sup>20</sup> and from 72.0% to 100% for trichomoniasis.<sup>21</sup>

### Effectiveness of Early Detection

No good- or fair-quality studies directly evaluated the effectiveness of screening pelvic examinations in asymptomatic, nonpregnant adult women to improve quality of life, reduce disease-specific morbidity, or reduce disease-specific or all-cause mortality.

### Potential Harms of Screening

The USPSTF found little evidence on the potential harms of screening pelvic examination. Studies reporting on the accuracy of screening pelvic examination to detect various gynecologic conditions also reported on false-positive and false-negative rates, which could lead to important harms due to missed diagnoses or unnecessary and potentially harmful procedures and treatment. The false-positive and false-negative rates at 1 year of follow-up in the PLCO trial subanalyses were 1.2% (95% CI, 1.0%-1.3%) and 95.7% (95% CI, 81.4%-99.5%), respectively.<sup>4</sup> False-positive and false-negative rates in the other 3 ovarian cancer studies ranged from 1.6% to 8.6% and 0% to 100%, respectively.<sup>4</sup> The 4 studies reporting on the accuracy of screening with pelvic examination for ovarian cancer also reported the percentage of patients with positive results who subsequently underwent surgery, which overall ranged from 5% to 36%. Based on the PLCO trial subanalyses, 11.2% of women who had a positive finding on palpation examination over up to 4 rounds of annual screening but did not ultimately receive an ovarian cancer diagnosis underwent surgery (Paul Pinsky, PhD, National Cancer Institute, written communication, May 2, 2016). Depending on the specific clinical sign used to detect various infectious diseases, the false-positive rate ranged from 0% to 46.1% for bacterial vaginosis, from 2.5% to 2.9% for genital herpes, and from 0% to 28.0% for trichomoniasis. The false-negative rate ranged from 21.2% to 97.7% for bacterial vaginosis, from 80.4% to 85.8% for genital herpes, and from 40.8% to 98.3% for trichomoniasis. Given the uncertainty regarding the accuracy of performing screening pelvic examinations to detect a range of gynecologic conditions, there is the potential for false-positive findings to cause harms by leading to unnecessary and invasive evaluations, including surgery; there is also the potential for false-negative findings to cause harms by providing false reassurance when clinically important conditions are actually present. One exploratory study (n = 150) reported on urinary tract infections in patients undergoing pelvic examination; however, the study was underpowered to detect any significant difference.<sup>6</sup> The USPSTF searched for but did not find any studies that quantified harms of anxiety or other psychological harms associated with screening pelvic examination.<sup>4</sup>

### Estimate of Magnitude of Net Benefit

Overall, the USPSTF found inadequate evidence on screening pelvic examinations for the early detection and treatment of a range of gynecologic conditions in asymptomatic, nonpregnant adult women. No studies directly evaluated the effectiveness of screening pelvic examinations to improve health outcomes such as quality of life, morbidity, or mortality. Few studies reported on the accuracy of screening pelvic examination; among the range of possible gynecologic conditions that could be detected with pelvic examination, only 4 were evaluated in published studies, often in only a single study. Although studies on detection of ovarian cancer often recruited participants from the community, participants in studies evaluating detection of infectious diseases came from sexually transmitted infection clinics, whose populations are likely more symptomatic and at higher risk for disease than the typical primary care population, thus making the applicability of this evidence to primary care populations unclear. Overall, the current available evidence is insufficient for the USPSTF to determine the net balance of benefits and harms of screening pelvic examinations, and the USPSTF cannot recommend for or against performing screening pelvic examinations in asymptomatic, nonpregnant adult women.

### Response to Public Comment

A draft version of this recommendation statement was posted for public comment on the USPSTF website from June 28, 2016, to July 25, 2016. One concern expressed in the comments was the perception that the USPSTF was recommending against performing screening pelvic examinations and therefore against screening for cervical cancer. The USPSTF has clarified that it is recommending neither for nor against screening with pelvic examination for gynecologic conditions other than cervical cancer, gonorrhea, or chlamydia. The evidence on performing pelvic examinations to screen for conditions other than cervical cancer, gonorrhea, or chlamydia is currently lacking, and the USPSTF is unable to determine the overall balance of benefits and harms. However, as it has previously, the USPSTF continues to recommend screening for cervical cancer, gonorrhea, and chlamydia in separate recommendation statements. Some comments also expressed concern that the USPSTF based its recommendation on costs. The USPSTF has clarified that it does not consider the costs of a preventive service when

determining a recommendation grade; it bases its recommendations on the quality and strength of the available evidence about the potential benefit and harms of a preventive service. Comments also expressed concern that the USPSTF did not sufficiently consider the harms of performing pelvic examinations and that the USPSTF should have recommended against performing them. The USPSTF reviewed all available relevant studies that reported on harms of pelvic examinations. Too few studies were available for the USPSTF to determine the net benefit or harm of performing screening pelvic examinations.

### Recommendations of Others

Across various organizations, guidelines range from recommending against performing screening pelvic examinations to recommending that they be performed annually. The American College of Physicians recommends against performing screening pelvic examinations in asymptomatic, nonpregnant adult women.<sup>22</sup> Based on the American College of Physicians' review and recommendation, the American Academy of Family Physicians also concluded that performing screening pelvic examinations in asymptomatic, nonpregnant adult women is not recommended.<sup>23</sup> The American College of Obstetricians and Gynecologists recommends performing pelvic examinations annually in all patients 21 years and older.<sup>24</sup> While it found no evidence to support or refute the benefit of annual pelvic examination or speculum and bimanual examination in asymptomatic, low-risk patients, it concluded that the decision to perform a complete examination at the time of the periodic health examination should be a shared decision between the patient and clinician. The Well-Woman Task Force, convened by the American College of Obstetricians and Gynecologists in 2013, recommends that for women 21 years and older, external examination may be performed annually and that inclusion of speculum examination, bimanual examination, or both in otherwise healthy women should be a shared, informed decision between patient and clinician. The Well-Woman Task Force also recommends speculum examination, bimanual examination, or both for asymptomatic patients with specific indications (eg, intrauterine device placement or cervical cancer screening).<sup>25</sup>

#### ARTICLE INFORMATION

##### The US Preventive Services Task Force (USPSTF)

**members:** Kirsten Bibbins-Domingo, PhD, MD, MAS; David C. Grossman, MD, MPH; Susan J. Curry, PhD; Michael J. Barry, MD; Karina W. Davidson, PhD, MASc; Chyke A. Doubeni, MD, MPH; John W. Epling Jr, MD, MEd; Francisco A. R. García, MD, MPH; Alex R. Kemper, MD, MPH, MS; Alex H. Krist, MD, MPH; Ann E. Kurth, PhD, RN, MSN, MPH; C. Seth Landefeld, MD; Carol M. Mangione, MD, MSPH; William R. Phillips, MD, MPH; Maureen G. Phipps, MD, MPH; Michael Silverstein, MD, MPH; Melissa Simon, MD, MPH; Albert L. Siu, MD, MSPH; Chien-Wen Tseng, MD, MPH, MSEE.

**Affiliations of the US Preventive Services Task Force (USPSTF) members:** University of California, San Francisco (Bibbins-Domingo); Group Health Research Institute, Seattle, Washington (Grossman); University of Iowa, Iowa City (Curry);

Harvard Medical School, Boston, Massachusetts (Barry); Columbia University, New York, New York (Davidson); University of Pennsylvania, Philadelphia (Doubeni); State University of New York Upstate Medical University, Syracuse (Epling); Pima County Department of Health, Tucson, Arizona (García); Duke University, Durham, North Carolina (Kemper); Fairfax Family Practice Residency, Fairfax, Virginia (Krist); Virginia Commonwealth University, Richmond (Krist); Yale University, New Haven, Connecticut (Kurth); University of Alabama at Birmingham (Landefeld); University of California, Los Angeles (Mangione); University of Washington, Seattle (Phillips); Brown University, Providence, Rhode Island (Phipps); Boston University, Boston, Massachusetts (Silverstein); Northwestern University, Evanston, Illinois (Simon); Mount Sinai Hospital, New York, New York (Siu); James J. Peters Veterans Affairs Medical Center, Bronx, New York (Siu); University of Hawaii, Manoa (Tseng).

**Author Contributions:** Dr Bibbins-Domingo had full access to all of the data in the study and takes responsibility for the integrity of the data and the accuracy of the data analysis. The USPSTF members contributed equally to the recommendation statement.

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**Disclaimer:** Recommendations made by the USPSTF are independent of the US government. They should not be construed as an official position of AHRQ or the US Department of Health and Human Services.

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