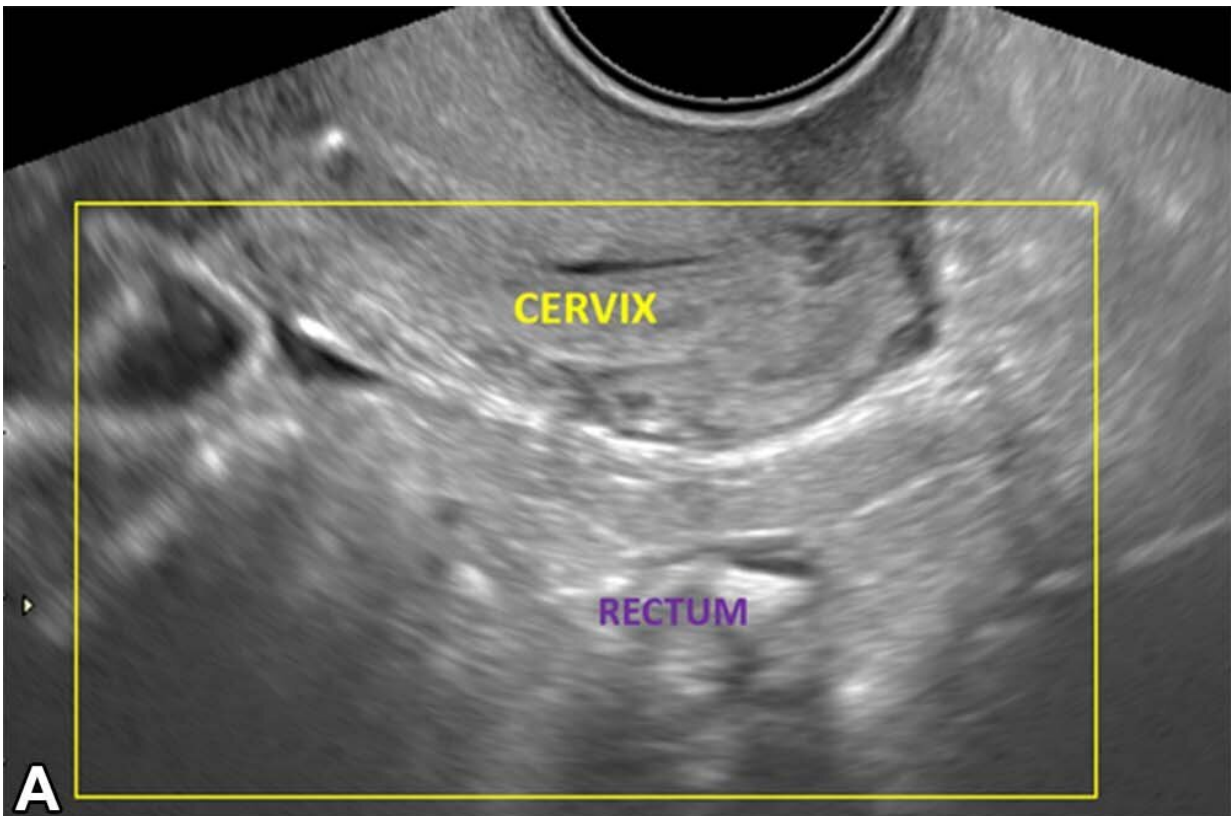


# New consensus statement aims to improve endometriosis evaluation

April 9 2024

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Transvaginal US images show the posterior compartment in a 25-year-old patient with dysmenorrhea, on the retrocervical field of view (area of interest outlined in yellow), 4–5-cm deep to the cervix. Longitudinal (A) and transverse (B) views. The transducer is in the anterior fornix. Longitudinal and transverse sweeps were acquired to include these areas. Credit: Radiological Society of North America

A new Society of Radiologists in Ultrasound (SRU) expert consensus statement to improve endometriosis evaluation was published in the journal *Radiology*.

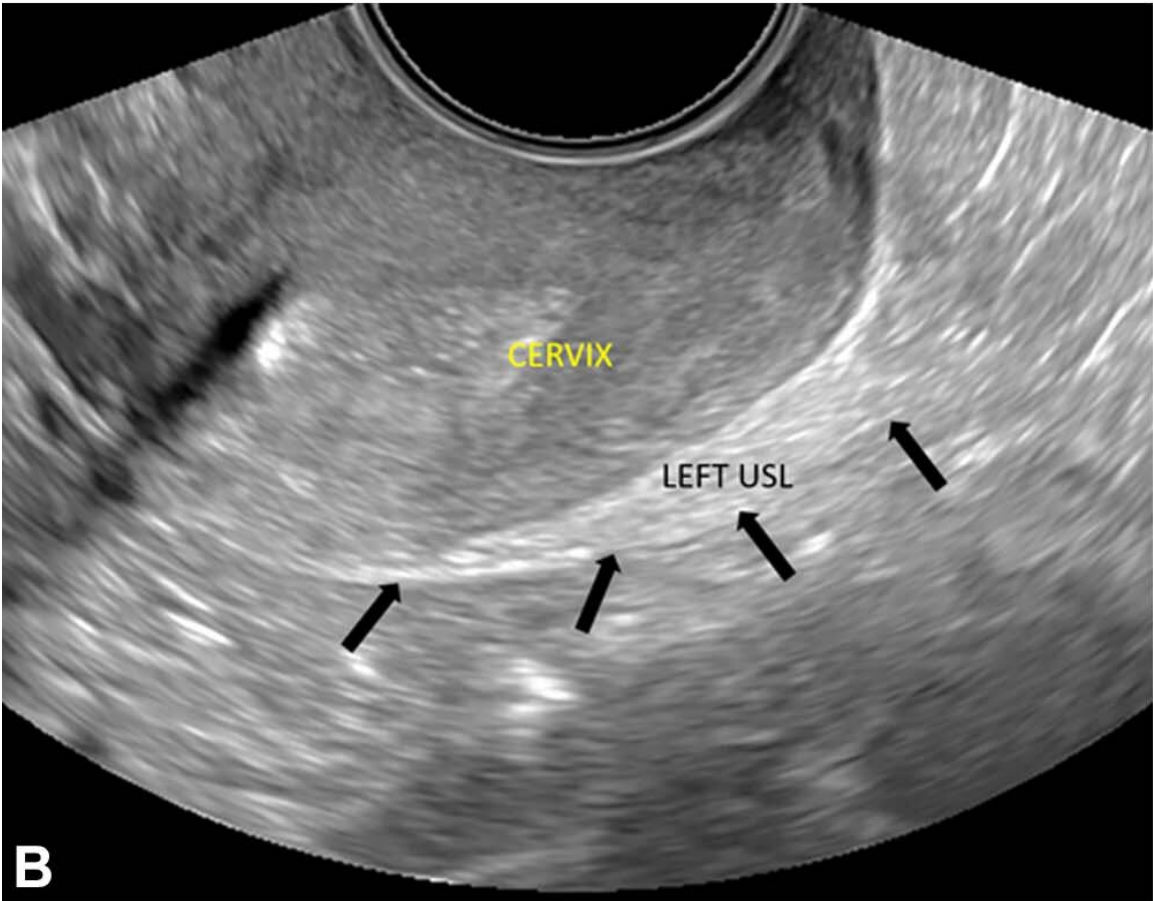
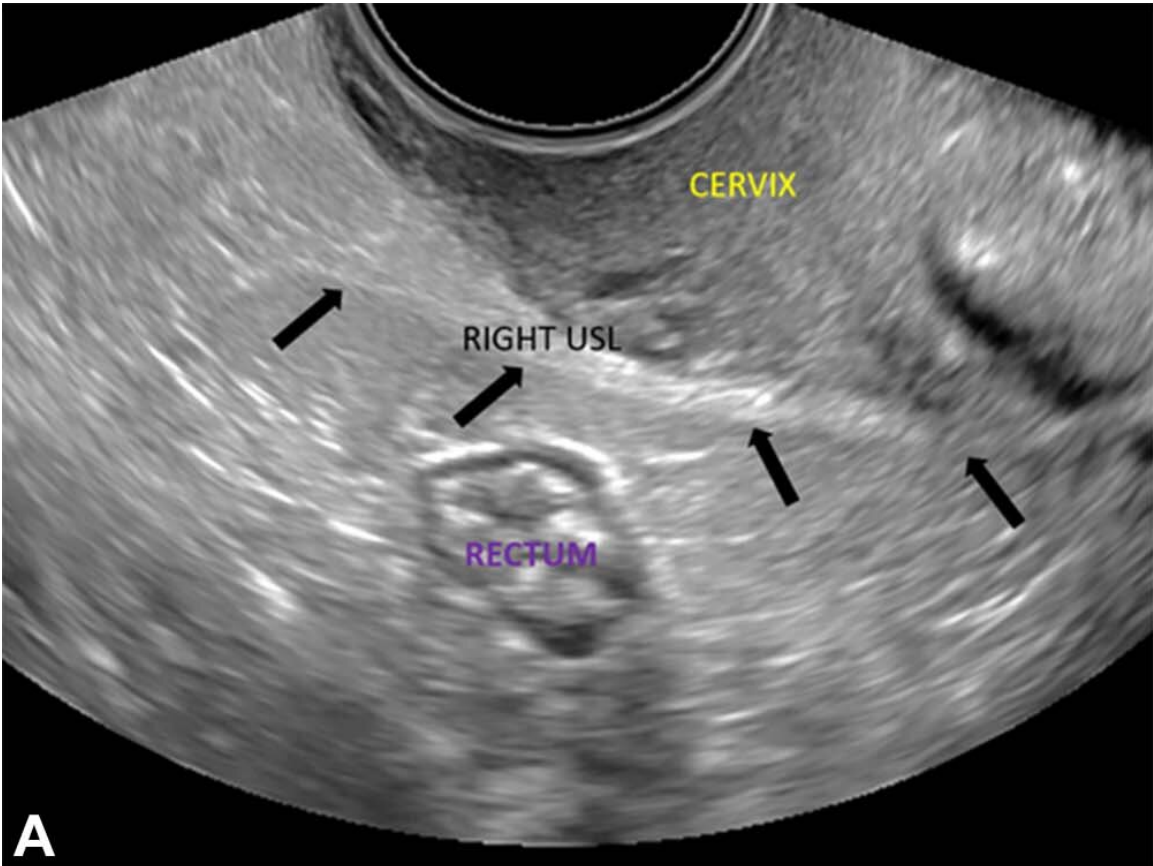
Endometriosis is a common condition with substantial diagnostic delay, leading patients to experience pain, infertility, lost wages and interrupted relationships.

The consensus provides recommendations for augmenting routine pelvic ultrasounds through additional maneuvers and imaging to improve diagnosis of deep endometriosis.

Endometriosis, the presence of endometrium-like tissue outside the uterus, is a prevalent and potentially debilitating condition. The condition is estimated to affect 10% of women of reproductive age and occurs in 21% of women undergoing hysterectomy with [chronic pelvic pain](#). In the United States, there is an over seven-year delay between the onset of symptoms and a diagnosis of endometriosis.

Endometriosis is also associated with infertility and subfertility, affecting 20-50% of patients with these conditions. Deep endometriosis, extending to any depth beneath the peritoneal surface, is the most severe form of endometriosis.

Ultrasound is usually the first-line imaging modality used when patients report chronic pelvic pain or have issues of infertility, both common symptoms of endometriosis, but few centers in the U.S. utilize [ultrasound](#) to screen for deep endometriosis. Existing scan protocol limitations and lack of awareness lead to suboptimal detection of deep endometriosis on pelvic ultrasounds.



Transvaginal US in normal right and left uterosacral ligaments (USL) in a 32-year-old patient with chronic pelvic pain and echogenic bands insert near the posterior cervicouterine junction (arrows, A and B). Transverse oblique images show the (A) right and (B) left anterolateral fornices. Credit: Radiological Society of North America

SRU convened a multidisciplinary panel of experts to make recommendations aimed at improving the [screening process](#) for endometriosis.

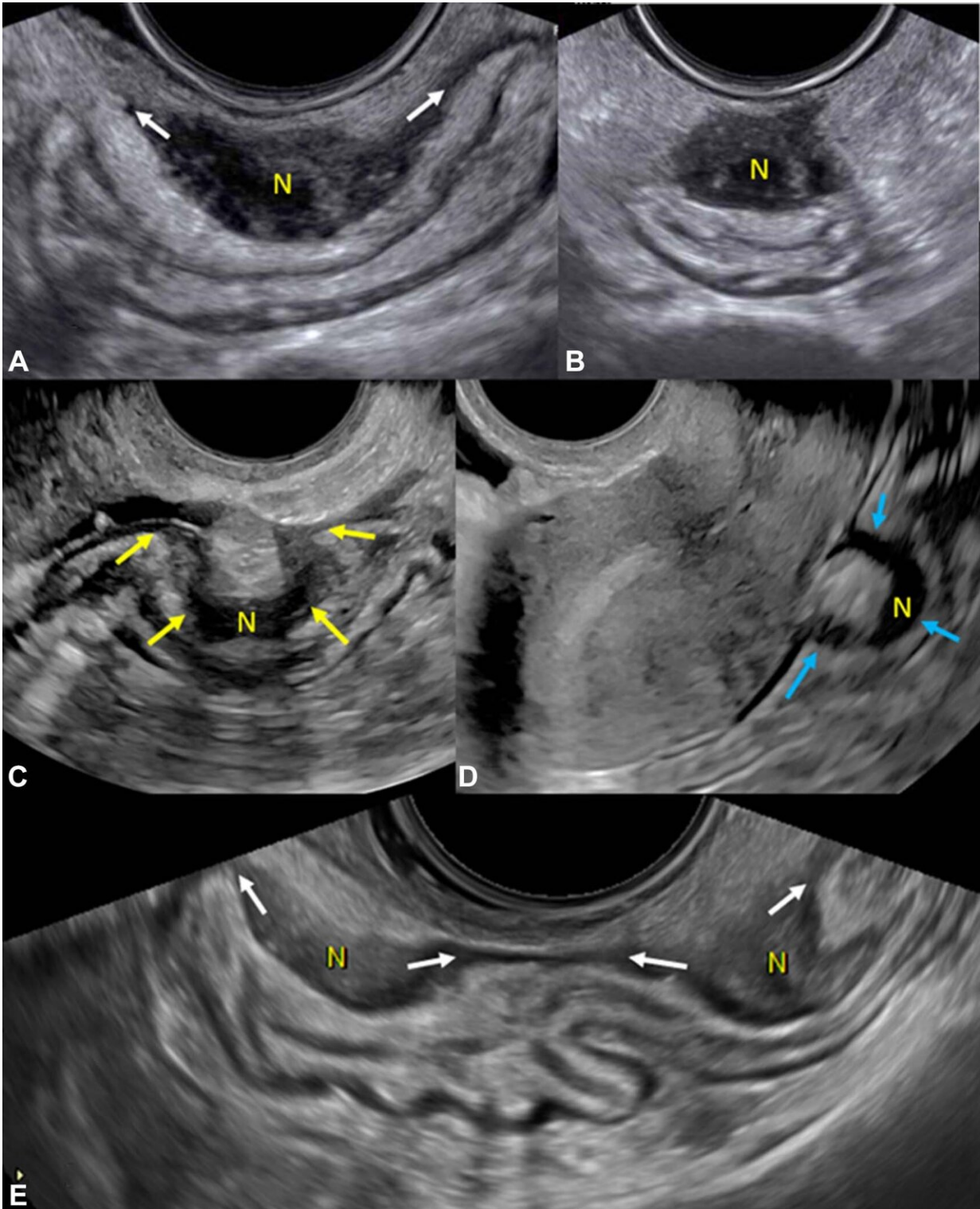
"The purpose of this consensus panel is to recommend methods that increase the diagnostic sensitivity for endometriosis on pelvic ultrasound by increasing awareness, improving interpretation, adding simple techniques that are high yield for deep endometriosis, and improving protocols to triage patients," said the statement's first author Scott W. Young, M.D., diagnostic radiology consultant, Division of Ultrasound, at the Mayo Clinic in Phoenix, Arizona.

The panel was composed of experts in the imaging and management of endometriosis, including radiologists, sonographers, gynecologists, reproductive endocrinologists, and minimally invasive gynecologic surgeons. A comprehensive literature review combined with a modified Delphi technique achieved a consensus.

"The statement defines the targeted screening population, describes techniques for augmenting pelvic ultrasound, establishes direct and indirect observations for endometriosis on ultrasound, creates an observational grading and reporting system and makes recommendations for additional imaging and patient management," Dr. Young said.

Panel recommendations include transvaginal ultrasound of the posterior compartment, observation of the relative positioning of the uterus and ovaries, and the uterine sliding sign maneuver to improve the detection of endometriosis.





Transvaginal US shows deep endometriosis (DE) nodules (N) in the rectosigmoid colon. (A) Image in a 31-year-old patient with dyschezia shows an elliptical DE

with tapering ends (arrows), longitudinal posterior fornix. (B) Transverse image of nodule in A, posterior fornix. (C) Image in a 27-year-old patient with chronic pelvic pain shows an  $\Omega$ -shaped DE nodule in midrectum, longitudinal posterior fornix (arrows). (D) Image in a 33-year-old patient with deep dyspareunia shows a C-shaped nodule in midrectum, longitudinal anterior fornix (arrows). (E) Image in a 40-year-old patient with chronic pelvic pain shows tandem nodules of rectosigmoid colon with tapering ends (arrows), longitudinal posterior fornix. These are category A (ie, direct endometriosis) observations. Credit: Radiological Society of North America

"These additional techniques typically can be performed in less than five minutes and could ultimately decrease the delay of an endometriosis diagnosis in at-risk patients," Dr. Young said.

The panel also recommends that direct and indirect observations of deep endometriosis should be assessed during the exam, and results should be reported using four categories: Incomplete (APU-0), Normal (APU-1), Equivocal (APU-2) and Positive (APU-3) with associated management recommendations.

"The SRU consensus on routine pelvic ultrasound for endometriosis aims to enhance deep endometriosis detection even at an initial ultrasound and with minimal additional time during imaging and no special patient preparation," Dr. Young said. "Focusing imaging on anatomic regions where deep endometriosis is common can increase detection and decrease diagnostic delay."

Dr. Young noted that these guidelines are meant for symptomatic patients at typical risk for endometriosis. Patients at high risk because of prior diagnostic or therapeutic laparoscopy for endometriosis or strong clinical indications may benefit from proceeding directly to advanced [endometriosis](#) imaging, particularly if they are likely to undergo surgery

or if monitoring is needed in the setting of infertility and medical treatment.

The authors advise that validation studies will be necessary to prove the accuracy of augmented pelvic ultrasound in widespread clinical application.

**More information:** Society of Radiologists in Ultrasound Consensus on Routine Pelvic US for Endometriosis, *Radiology* (2024).

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