As detailed in Part 1 of this installment on uterine anomalies, a uterus that has developed abnormally can appear to be normal on, 2D sonography and on unenhanced sonohysterography (FIGURE). Without the application of 3D coronal ultrasonography, accurate identification of the fundal contour, and ultimately the type and classification of the uterine anomaly, is not possible. Fortunately, the lowered cost (compared with magnetic resonance imaging) and the noninvasive nature of this more detailed imaging modality make its use convenient to both the physician and the patient.

In part 1 of this 2-part installment of our imaging series, we discussed the frequency with which uterine anomalies occur and their types and classifications, as well as offered an imaging library showing the normal endometrial cavity, arcuate uterus, incomplete (partial) uterine septum, and complete uterine septum. Here, we provide two cases demonstrating 3D sonography of the unicornuate, bicornuate, didelphic, and DES-exposed uterus.

Additional images online
For the full offering of diagnostic images, including the DES-exposed uterus, see the Web version of this article at www.obgmanagement.com. See Part 1 of this installment online.

References
Abnormal uteri can appear normal on 2D sonography

In sagittal view, a uterus with a congenital anomaly can appear normal. Sagittal views of a normal uterus (A) and didelphic uterus (B) and sonohysterogram of a unicornuate uterus (C). Transverse views of a normal (D) and didelphic uterus (E). 3D coronal views of a normal (F) and didelphic uterus (G).

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CASE 1  Unicornuate uterus

Transverse view of Mirena IUD in right horn and non-communicating rudimentary left horn.

CASE 2  Bicornuate uterus, with concave contour

A patient reporting pelvic pain is examined by 2D sonography, which reveals a bicornuate uterus (A). Note the concave fundal contour (arrow), indicating bicornuate uterus, both horns communicating. 3D imaging (B) revealing fundal “dimple” (concave contour, >1 cm), which is indicative of bicornuate uterus. Complete separation of cavities (C).

CASE 3  Didelphic uterus

A patient presenting with primary infertility is found to have a didelphic uterus on 2D and 3D imaging. Note complete separation of uterine cavities on transverse, 2D views (A and B). The left horn sagittal, 2D view shows a normal appearing uterus (C). 3D imaging (D).