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# **Ultrasound in Obstetrics and Gynecology:**

## **A Practitioner's Guide**

### **Study Alert**

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**Page 8, column 1: Replace “Surgical clips ... versions of ring-down artifacts” with:**

Surgical clips, intrauterine devices, or strong acoustic mismatches at interfaces may cause a different type of reverberation artifact called a **comet-tail artifact**, which appears as multiple short-path parallel bands (Figure 1-12B). Comet-tail artifacts typically appear in areas that are relatively free of echoes. **Ring-down artifact** is caused by gas bubbles and appears as a series of parallel bands distal to the gas collection.

**Page 8, replace caption for Figure 1-12B with this:**

Transvaginal image of the uterus. The comet-tail artifact (arrow) is produced by an intrauterine contraceptive device (IUCD) that has perforated the lower uterine segment.

**Page 99, first column: The formula to calculate crown-rump length (CRL) using transabdominal ultrasound should read:**

- *Transabdominal ultrasound: CRL (cm) + 6.5 = age in gestational weeks*

**Page 125, column 1: Replace the sentence beginning “The side closest....” with:**

The side closest to the transducer can be the most difficult to see because of the **reverberation** artifact (Figure 4-5A).

**Page 155, caption to Figure 4-51B should read as follows:**

**B** Transverse image of the fetal thorax demonstrating a short-axis view of the fetal thorax with clear picture of the RVOT with its right and left pulmonary branches. 1 = right ventricle, 2 = left ventricle, 3 = left atrium, 4 = RVOT/pulmonary artery, 5 = right pulmonary artery, 6 = left pulmonary artery.

**Page 171, Figure 4-73:**

Reverse the labels "Right" and "Wrong" in both instances. The images on the left are "Wrong" methods of scanning and the images on the right are "Right" methods of scanning for avoiding shadow artifacts when imaging the fetal kidneys.

**Page 209, replace caption to Figure 5-33C with:**

Drawing of **partial** low-lying placenta.

**Page 209, replace caption to Figure 5-33E with:**

Drawing of **marginal** low-lying placenta.

**Page 551, column 2: Replace Glossary definition as follows:**

**comet-tail artifact**—A type of reverberation artifact caused when a small but highly reflective interface (such as an intrauterine device) creates a series of echoes that appear as multiple short bands called *comet tails*. Comet-tail artifacts typically appear in relatively echo-free areas. *Chapter 1*.

**Page 576, column 2: Replace Glossary definition as follows:**

**ring-down artifact**—A type of artifact caused when the ultrasound beam encounters a gas pocket or gas bubbles, which results in a continuous emission of sound waves returning to the transducer. This appears on the image as additional echoes from the point of origin throughout the scan range, which can mask subtler echoes of anatomic structures. The discrete banding that typifies comet-tail artifacts is not seen in ring-down artifacts. *Chapter 1*.