Challenges in Ultrasound Diagnosis of Müllerian Malformations

CUME Classification: A Practical Overview

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Septate Uterus Normal/Arcuate Uterus **T-Shaped Uterus** VS. VS. Three-dimensional transvaginal ultrasound (3D-TVS) is a reliable method for classifying uterine malformations. The acquisition should be performed in > 10 mm ≤ 130° the periovulatory or luteal phase of the menstrual cycle, assessing the midcoronal plane of the uterus using the 3D Uterine Trace feature or Advanced VCI (Volume Contrast Imaging) with OmniView and HD*live*[™] render mode. Specific reference points and measurements should be used: the intercornual line, internal fundal indentation depth, mean of left /> 7 mn and right lateral indentation angle, depth, and T-angle. Previously suggested measurements and cut-offs (fundal indentation angle, indentation-wall ratio) are less reliable and accurate. < 40° First published in 2018, the CUME > 110% (Congenital Uterine Malformation by Experts) classification is the only reliable classification method that addresses controversies associated with previous guidelines in the diagnosis and Internal fundal indentation Internal indentation depth < 10 mm – Lateral indentation angle ≤ 130° classification of congenital anomalies depth \geq 10 mm – Indentation angle > 130° – Lateral indention depth ≥ 7 mm of the female genital tract, particularly Indentation fundal angle < 140° - Indentation-to-wall thickness – T-angle ≤ 40° the classification of the normal/arcuate. Indentation-to-wall thickness ratio < 110% septate¹ and T-shaped uterus.² Provided ratio > 110% - None or one of the three criteria are descriptions, graphics, and ultrasound

> Septate uterus: Internal indentation depth (main criterion) must be ≥ 10 mm



must be present



images to help identify and classify the

using the CUME diagnostic criteria.

most challenging uterine malformations

References

1. Ludwin A et al. CUME: better criteria for distinguishing between

normal/arcuate and septate uterus? Ultrasound Obstet Gynecol. 2018 2. Ludwin A, et al. CUME: diagnostic criteria for T-shaped uterus.

Ultrasound Obstet Gynecol. 2020

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for T-shaped uterus

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