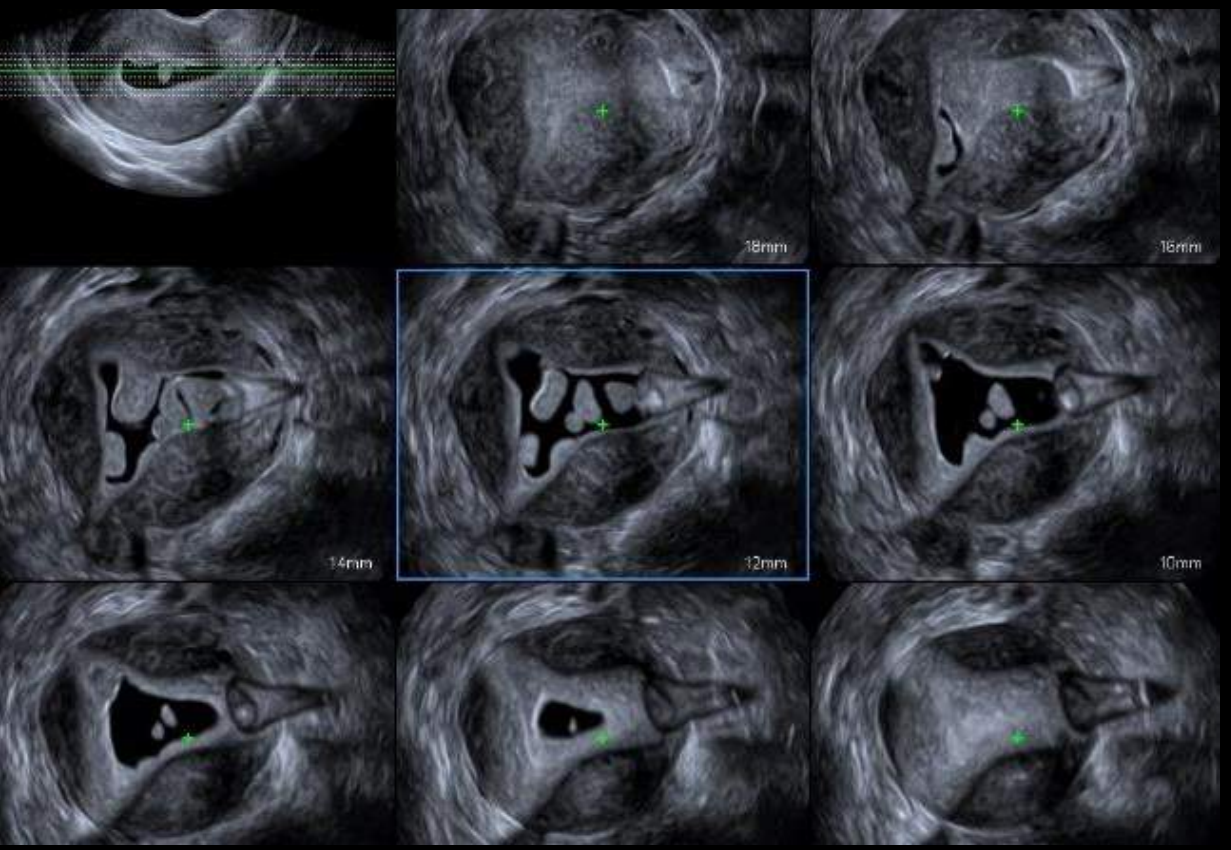
Aplio
Women's Health range



Clinical Ultrasound Booklet

Gynecology

WHC team

August 2021

Uterus

B-mode

Aplio

Women's Health range

PVT-781VT/E (11C3)

Uterus, Endometrium

Wide band endocavitary transducer, wide angle, resolution

The different layers of the endometrium, vascular bed in myometrium and cervix are clearly outlined.

Uterus

B-mode

Aplio

Women's Health range

PVT-781VT/E (11C3)

Uterus, Fibroma

Wide band endocavitary transducer

Excellent contrast resolution improves lesion detection

Uterus

B-mode

Aplio

Women's Health range

PVT-681MVL (11CV3)

Uterus, Adenomyosis

Wide band volumetric endocavitary transducer, resolution and penetration

Excellent penetration with homogeneous image from near to far field even in this case of severe adenomyosis.

Ovary
B-mode

Aplio
Women's Health range

PVT-681MVL (11CV3)

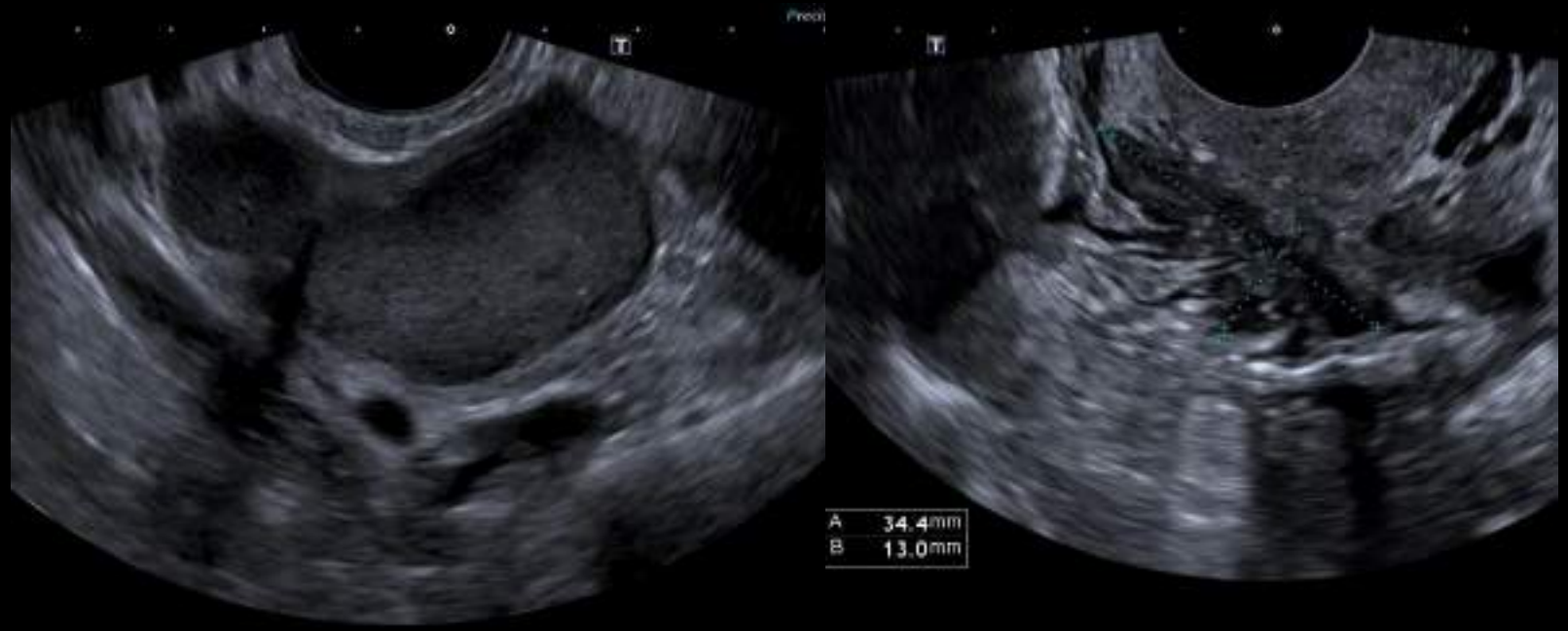
Ovary, Endometriotic cyst

Wide band volumetric endocavitary transducer, contrast resolution and Quickscan

Follicles, cyst and endometriotic tissue can be clearly distinguished. Some irregular myometrium is also visible.

Ovary
B-mode

Aplio
Women's Health range



PVT-681MVL (11CV3)

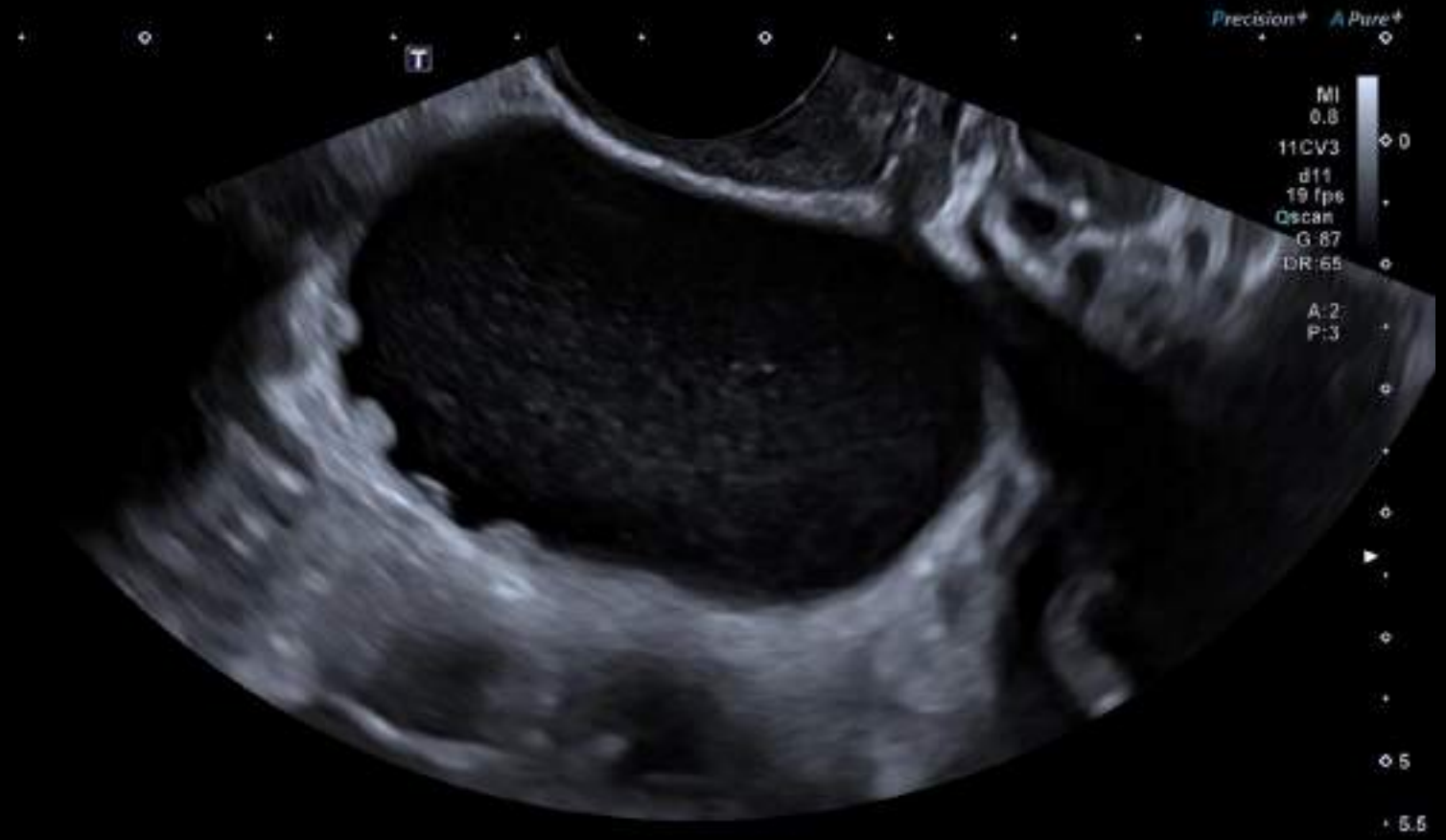
Endometriosis

Wide band volumetric endocavitary transducer, resolution

Excellent contrast resolution is needed to detect endometriotic tissue especially in difficult to reach areas.

Ovary
B-mode

Aplio
Women's Health range



PVT-681MVL (11CV3)

Panovarian cyst

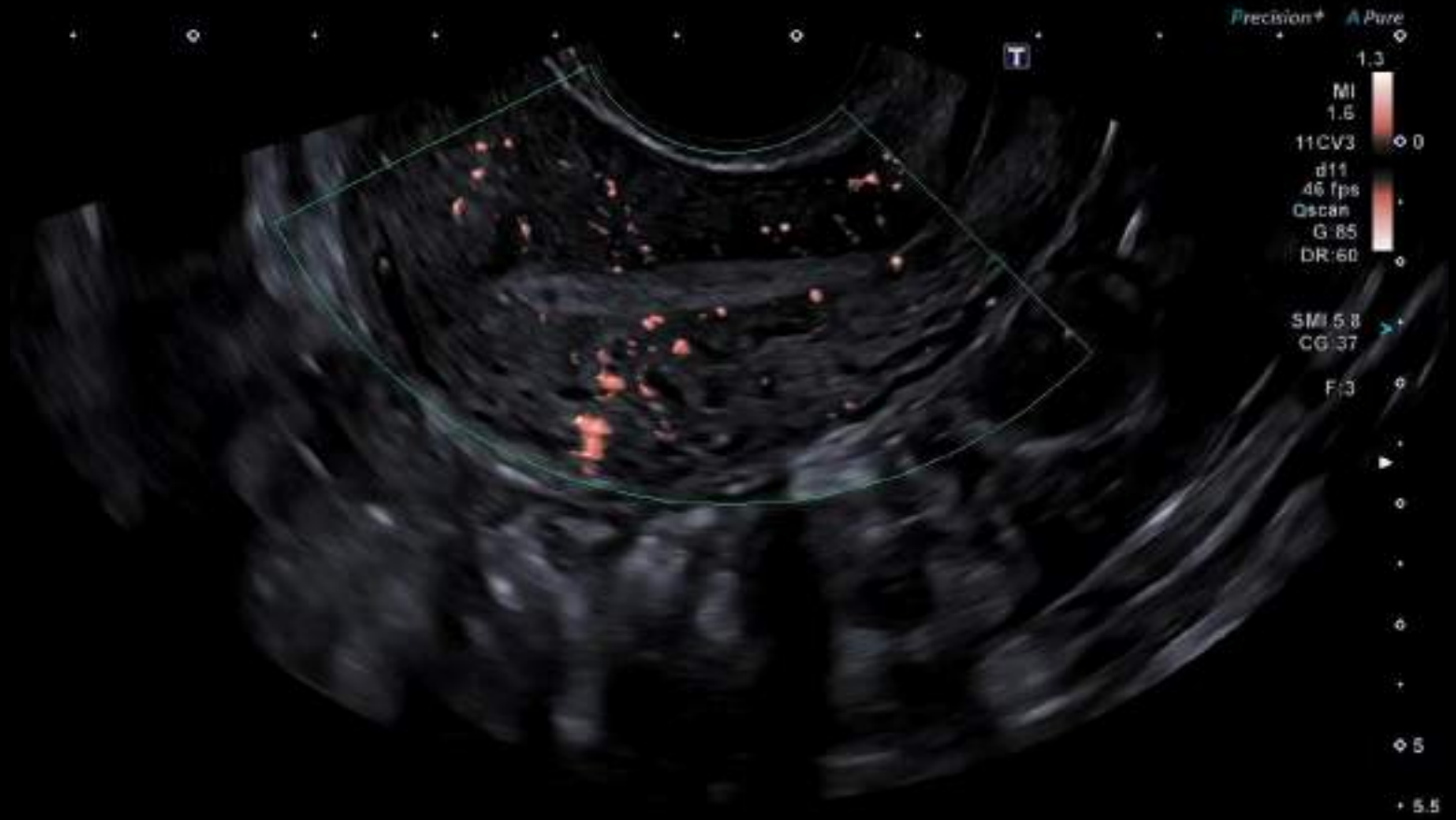
Wide band volumetric endocavitary transducer, resolution and Quickscan

Cystic wall, papillations and low level echo's are all equally good visible thanks to automatic Quickscan.

Uterus

Superb Micro-vascular Imaging (SMI)

Aplio
Women's Health range



PVT-681MVL (11CV3)

Perfusion of myometrium

SMI and Doppler Luminance with highest frame rate, sensitivity and resolution, no motion artifacts

Minute arteries can be seen. At this stage of the menstrual cycle the spiral arteries in endometrium are not yet visible.

Uterus

Superb Micro-vascular Imaging (SMI)

Aplio
Women's Health range

PVT-681MVL (11CV3)

Endometrium polyp, feeding artery

Excellent SMI with highest framerate, sensitivity and no motion artifacts

SMI clearly shows the feeding artery supplying endometrium polyp with high accuracy while preserving B-mode information.

Uterus

HyFoSy - Hysterosalpingo-foam-sonography

Aplio
Women's Health range

PVT-681MVL (11CV3)

Endometrium cavity and tube with foam

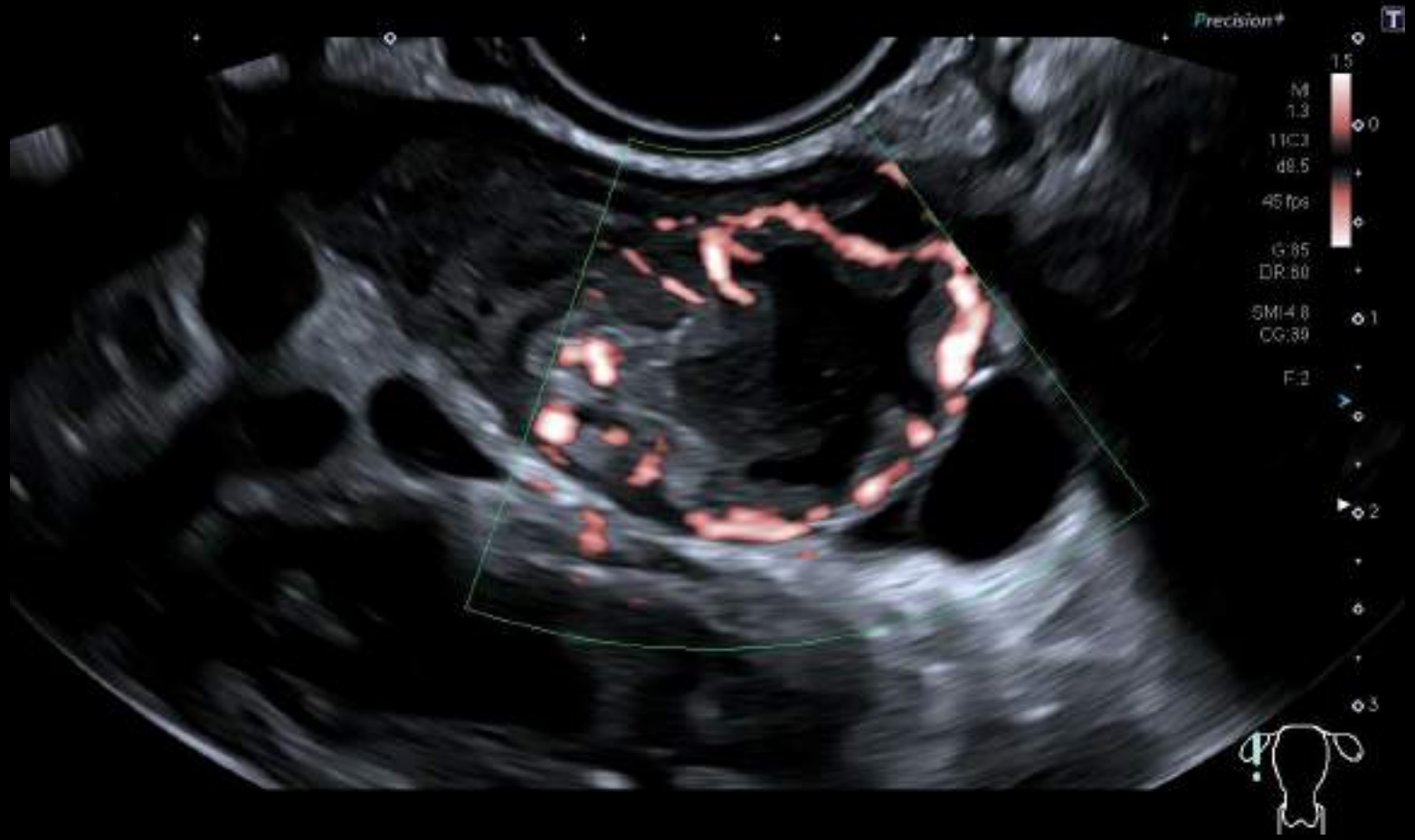
Wide field of view and good framerate

Patency of tube is easily confirmed in this realtime scan.

Ovary

Superb Micro-vascular Imaging (SMI)

Aplio
Women's Health range



PVT-781VT/E (11C3)

Ovary, Corpus Luteum cyst

SMI highest frame rate, sensitivity and resolution, no motion artifacts

The different tissue structures within the cyst remain perfectly visible even during SMI.

Ovary

Superb Micro-vascular Imaging (SMI)

Aplio
Women's Health range

PVT-681MVL (11CV3)

Complex ovarian lesion

SMI highest frame rate, sensitivity and resolution, almost no motion artifacts

SMI shows vessel architecture while preserving B-mode. Note the high framerate while box is covering entire lesion.

Ovary
IOTA-ADNEX model

Aplio
Women's Health range

PVT-681MVL (11CV3)

Advanced stage ovarian cancer

IOTA-ADNEX model

IOTA gives clear indication of increased risk for malignancy in this lesion (from previous slide), also shows the risk for which stage of malignancy.

Ovary
B-mode

Aplio
Women's Health range

PVI-475BX (8CX1)

Large multi cystic ovarian mass

Active matrix wide band convex transducer, Quickscan

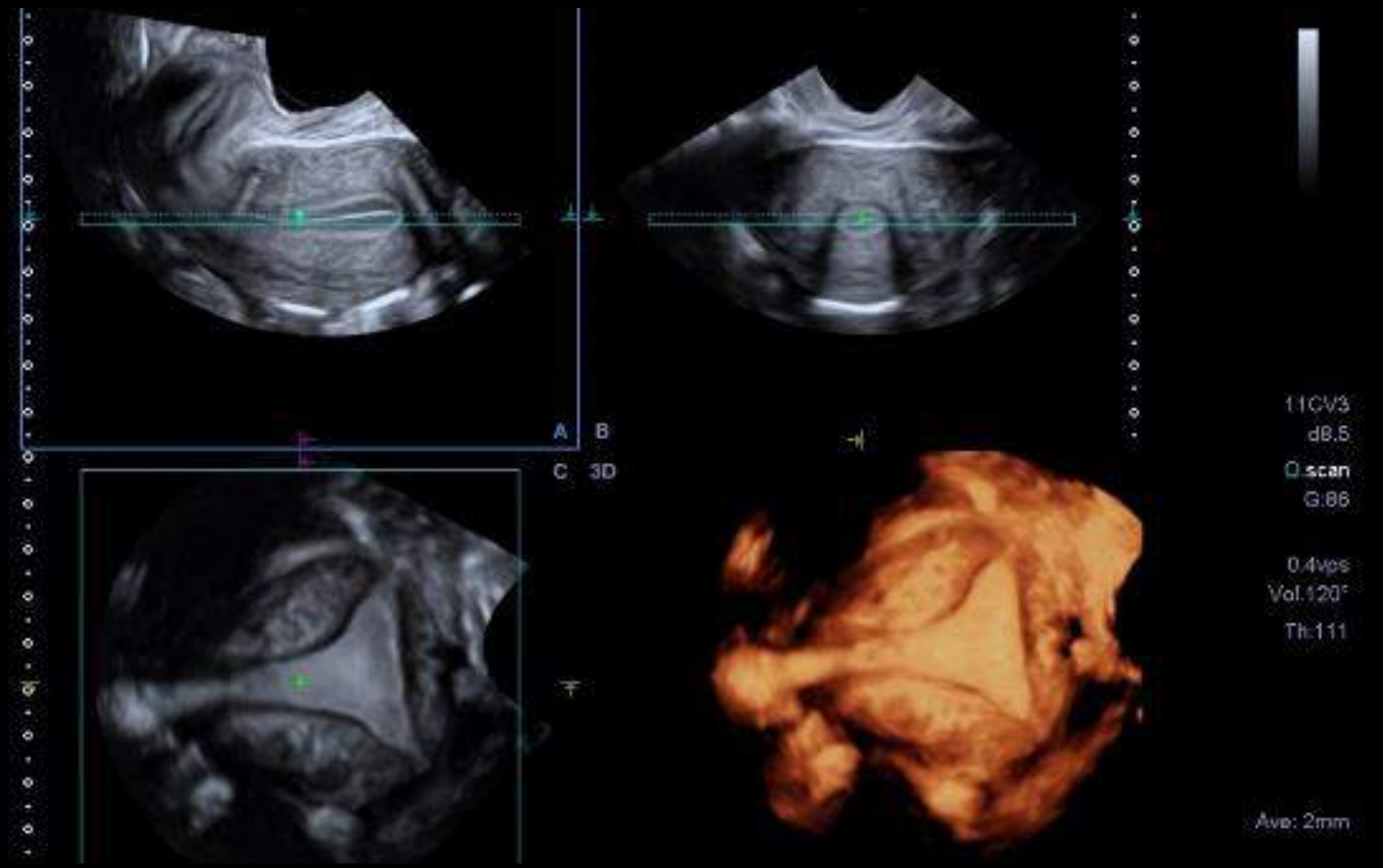
In large lesions the use of the abdominal transducer gives good overview, penetration and resolution.

3D rendering

MPR & Volume

Aplio

Women's Health range



PVT-681MVL (11CV3)

Uterus, Endometrium

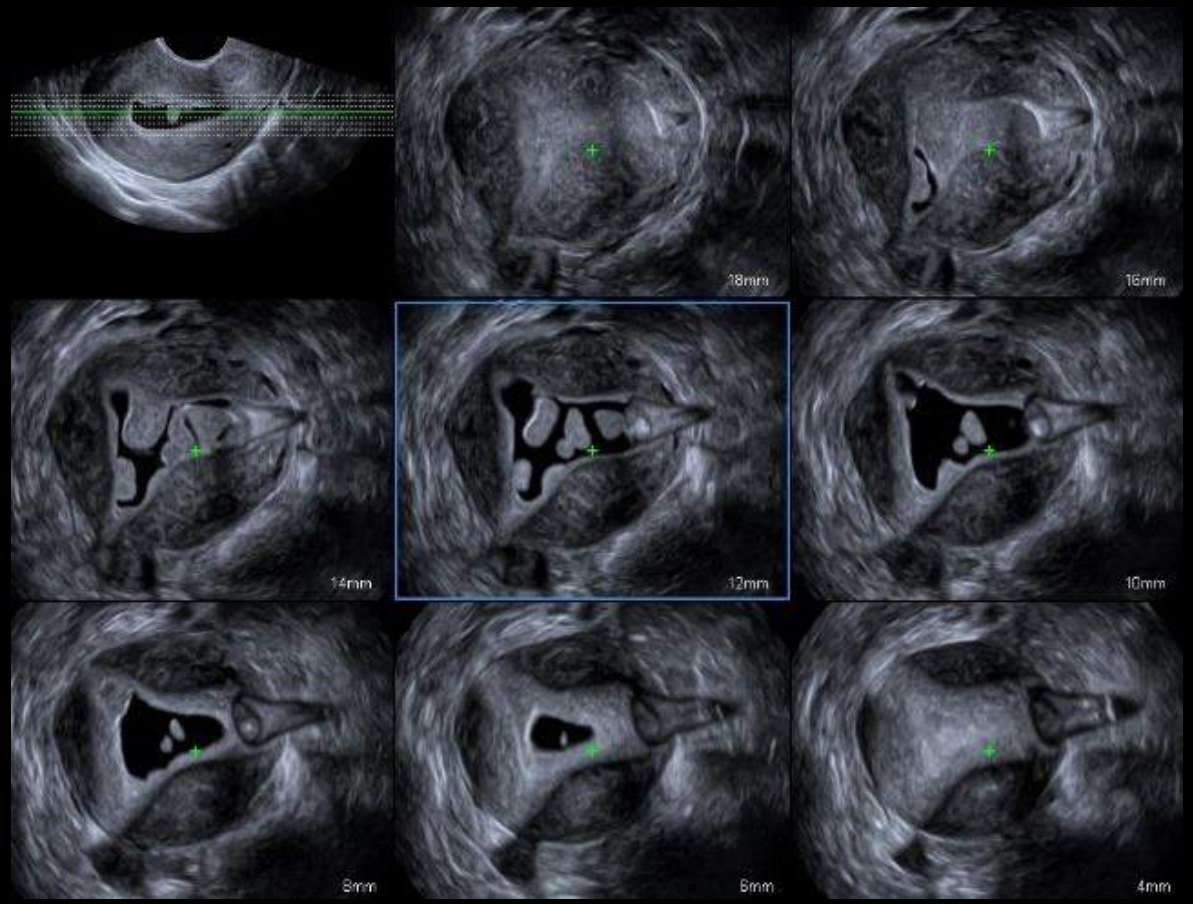
MultiPlanar Reconstruction image (MPR) with thick slice and surface volume rendering (VR)

All 3D scanplanes visualized in highest resolution including volume rendered image.

3D rendering

MultiView

Aplio
Women's Health range



PVT-681MVL (11CV3)

Uterus with several polyps

MultiView, C-plane

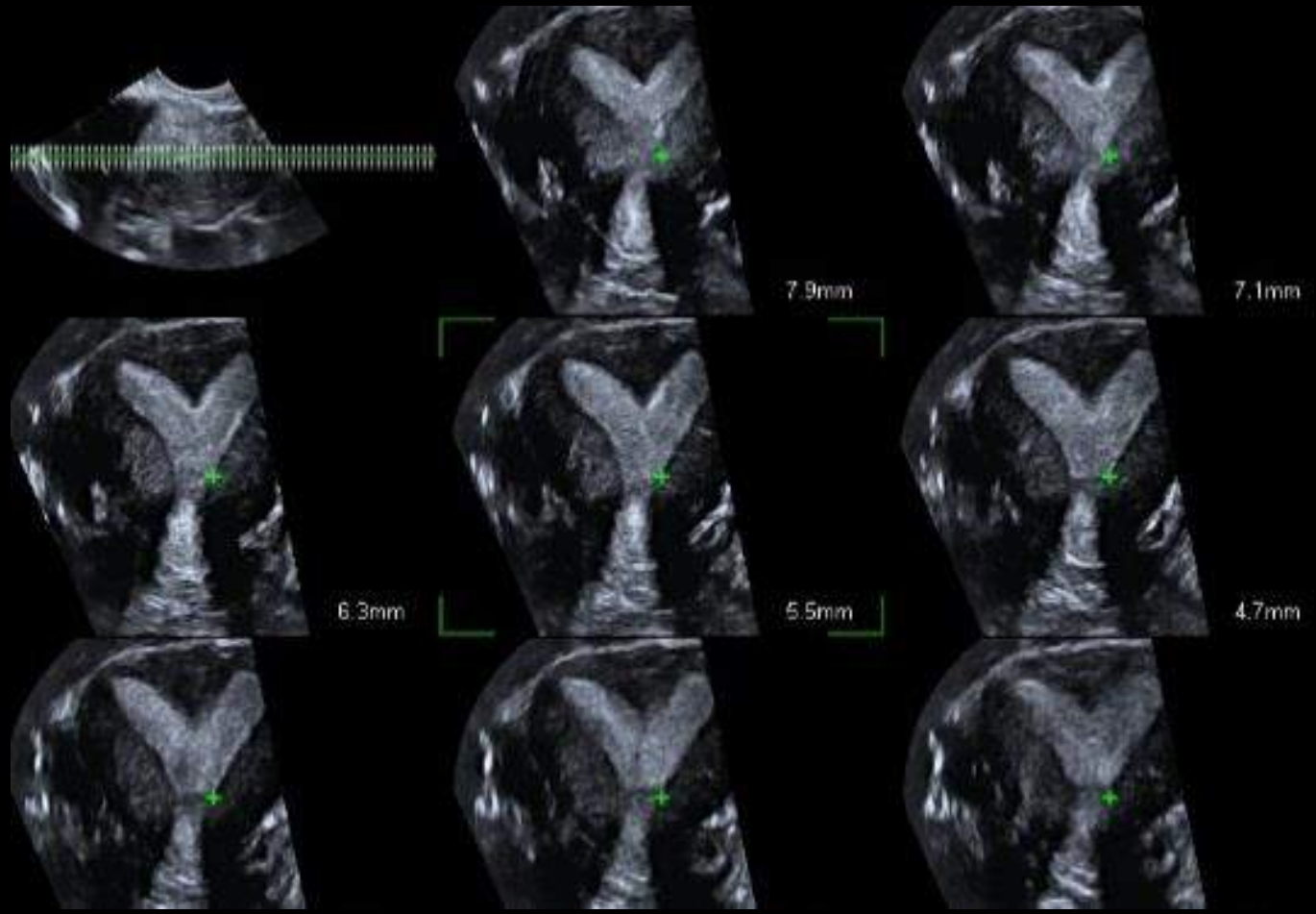
MultiView and C-plane for quick overview of all polyps, not possible in just A and B plane. Made possible by saline infusion and 3D sweep.

3D rendering

MultiView

Aplio

Women's Health range



PVT-681MVL (11CV3)

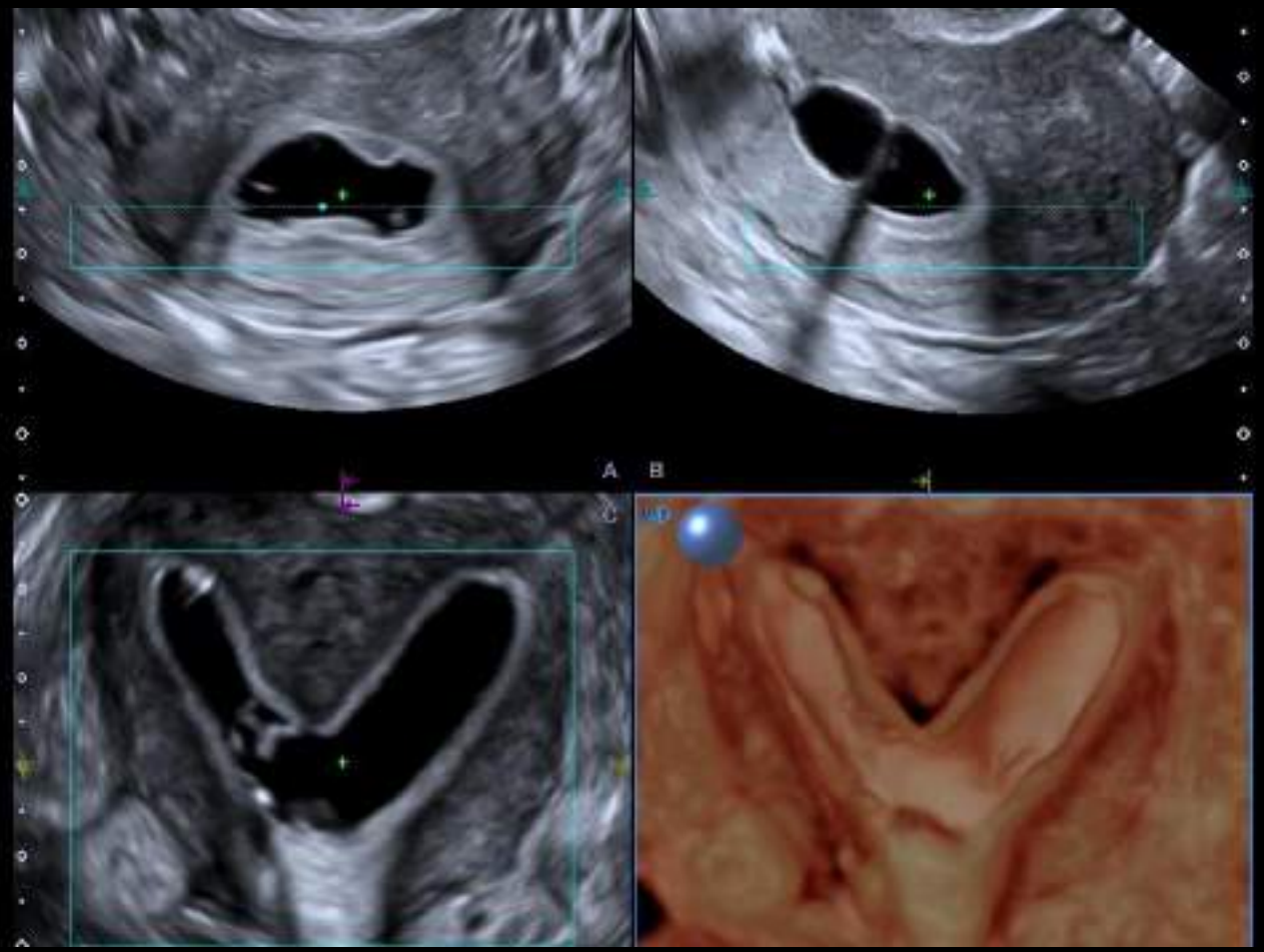
Bicornuate Uterus

MultiView C-plane

The C-plane of the uterus cannot be obtained in 2D, therefore 3D and Multiview C is ideal for detecting congenital uterine abnormalities.

3D rendering
MPR

Aplio
Women's Health range



PVT-681MVL (11CV3)

Bicornuate Uterus with adhesions

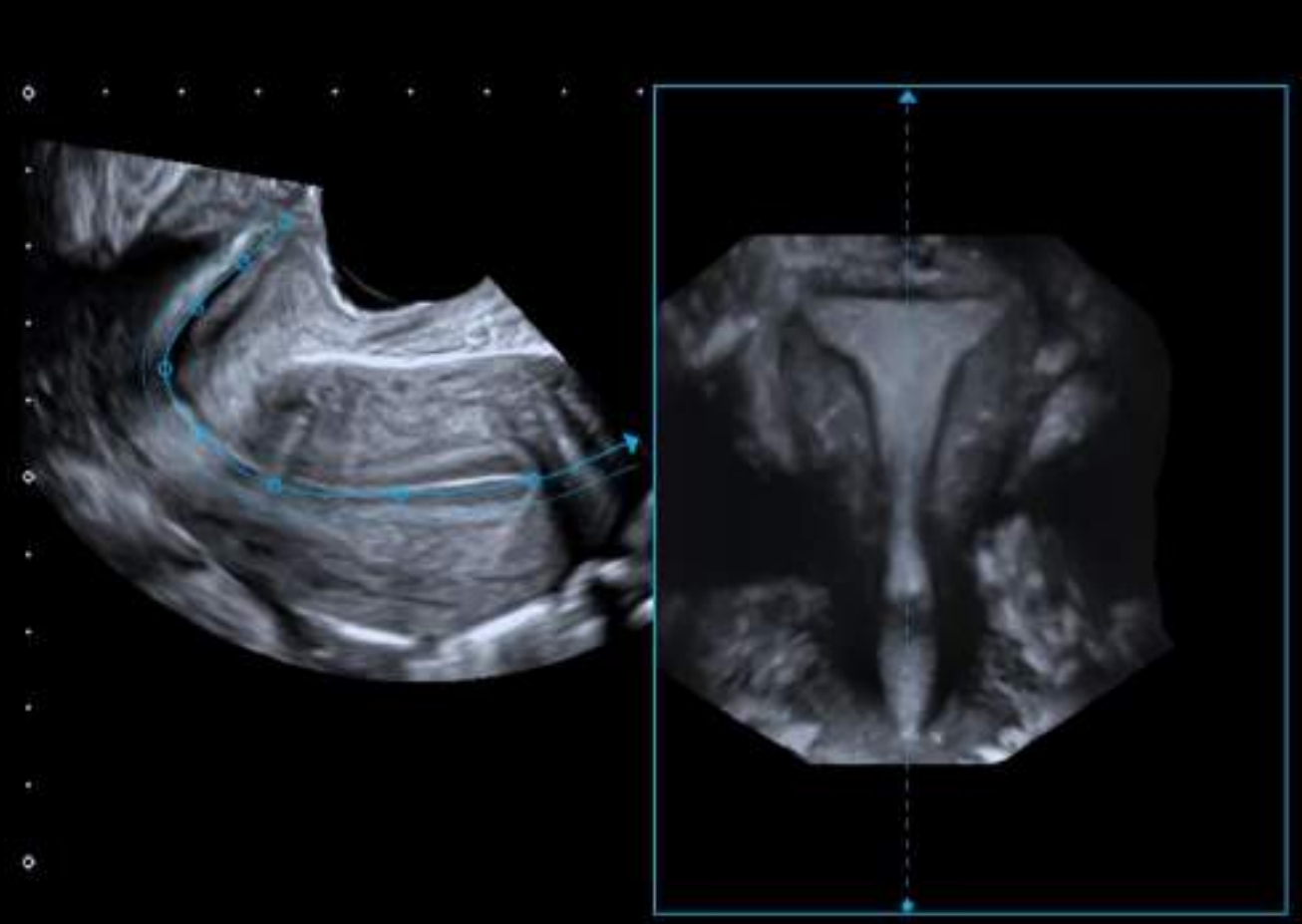
3D MultiPlanar (MPR) and Luminance volume rendered image, widest 3D angle (180°x150°)

Saline infusion is being used to get good overview of the adhesions in this bicornuate uterus.

3D rendering

OmniView

Aplio
Women's Health range



PVT-681MVL (11CV3)

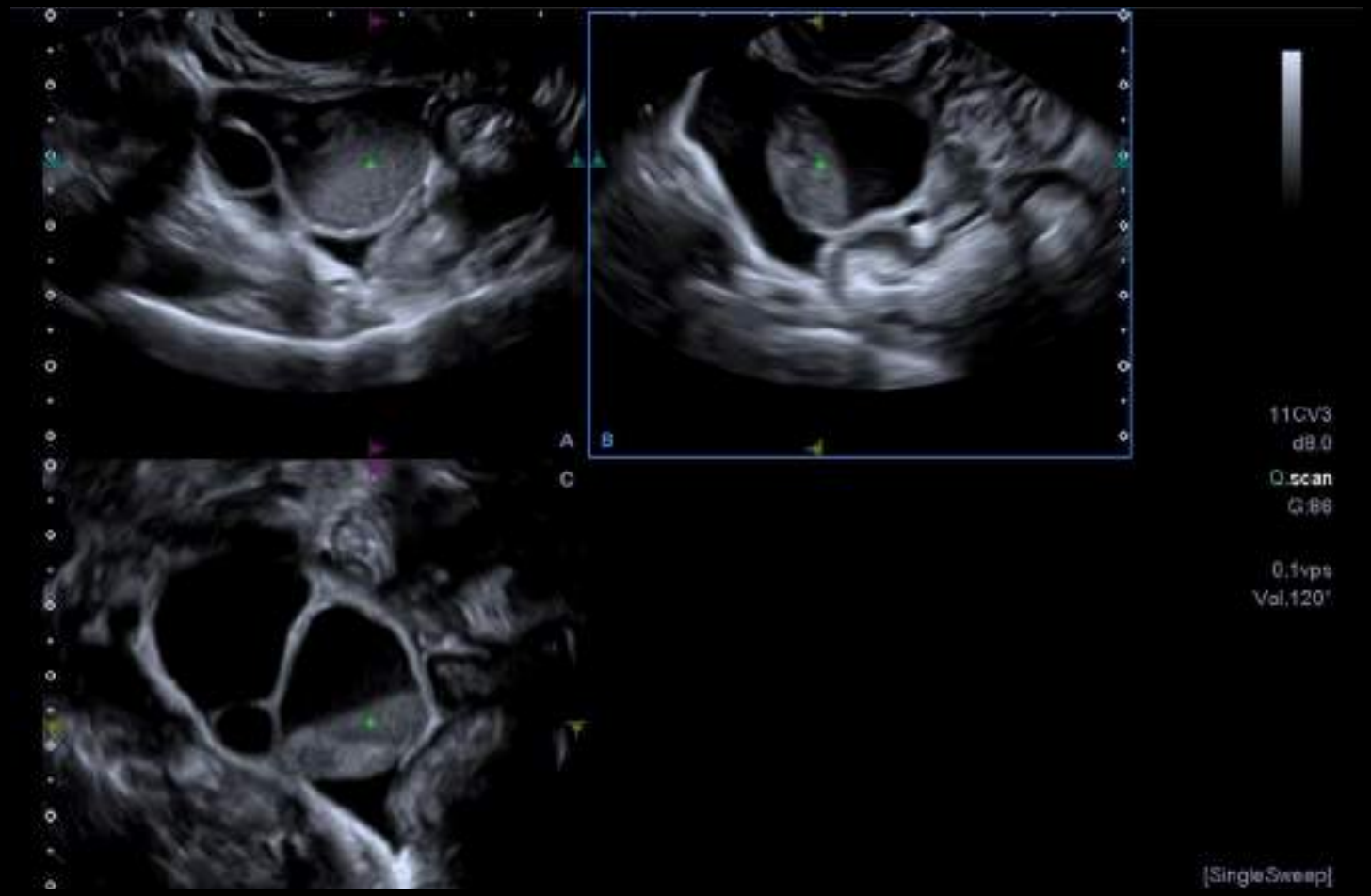
Uterus, Endometrium

OmniView with thick slice

OmniView with thick slice is really useful and fast to get a good impression of the coronal plane especially in curved structures like in this case.

3D rendering
MPR

Aplio
Women's Health range



PVT-681MVL (11CV3)

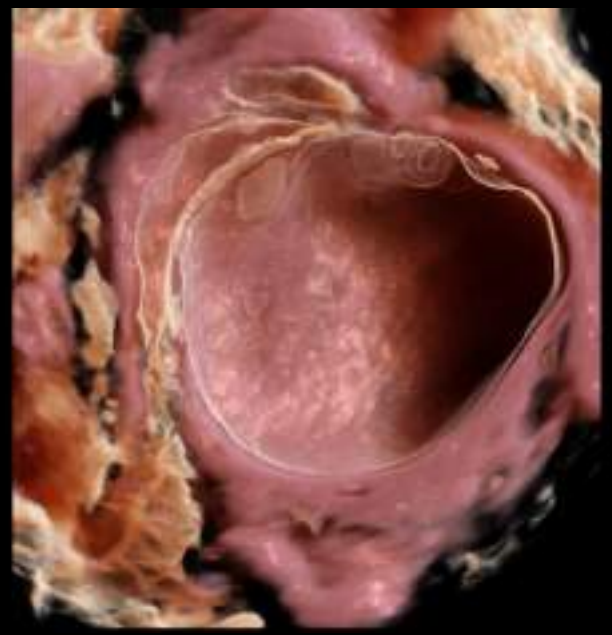
Ovary with cyst and endometriotic tissue

MultiPlanar Reconstruction (MPR)

In 3D the subtle tissue differences in this ovary are evident, allowing accurate diagnosis and extend of endometriosis.

3D rendering
Shadow Glass

Aplio
Women's Health range



PVT-681MVL (11CV3)

Ovarian cyst, Ovary with several follicles

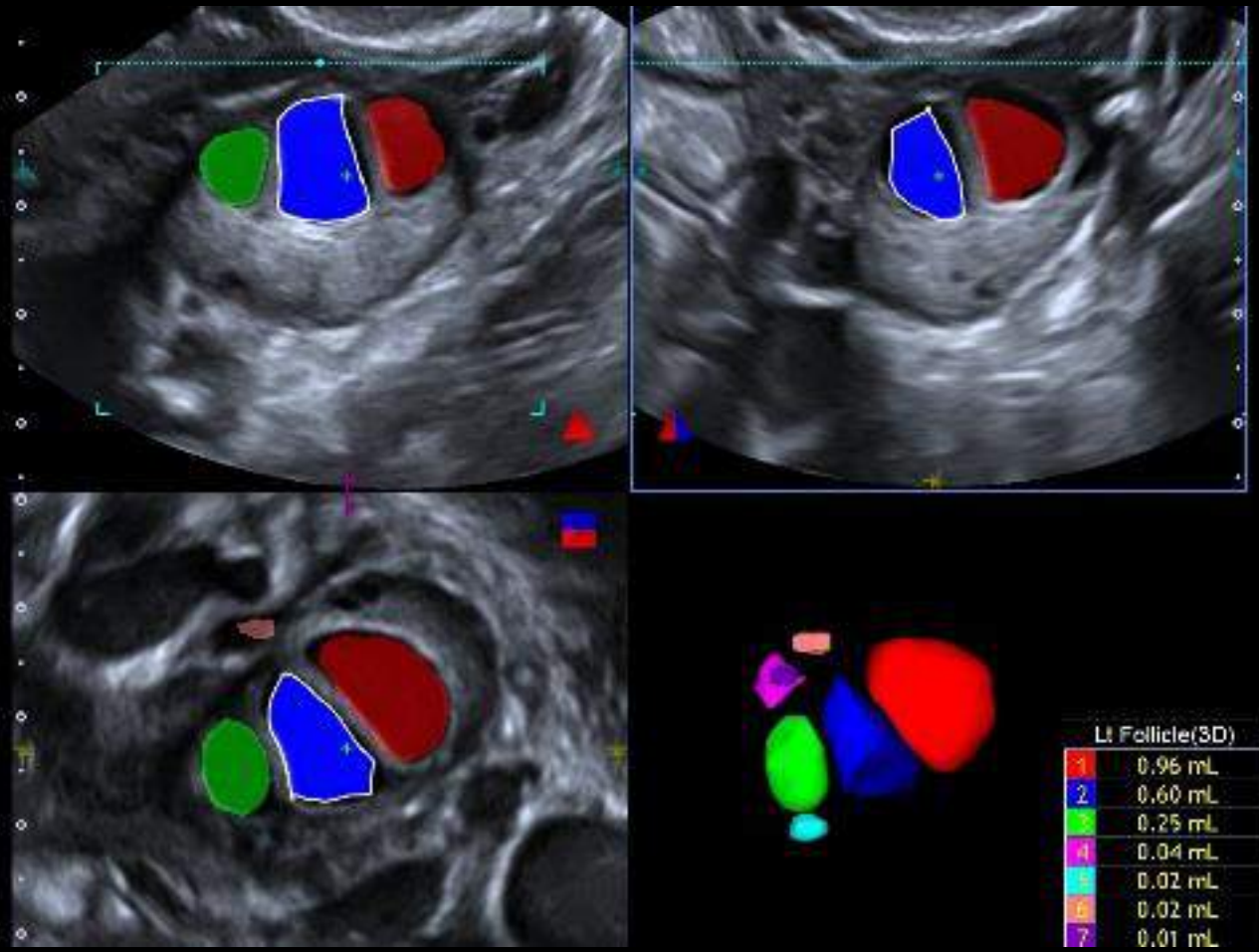
Shadow Glass with and without Inversion mode

Shadow Glass displays images in a more lifelike way.

3D rendering

Follicle count

Aplio
Women's Health range



PVT-681MVL (11CV3)

Ovary with follicles

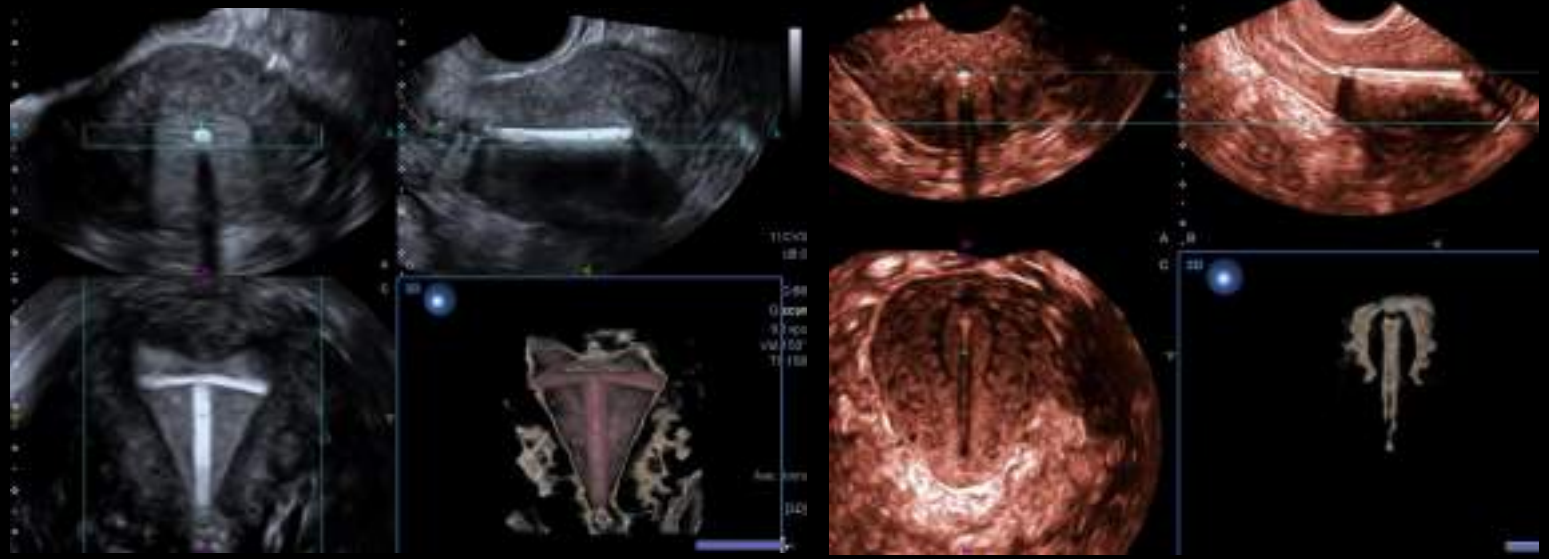
Follicle count, wide 3D angle (130°) used. (max 150° available)

Accurate detection and measurement of all follicles after one 3D sweep decreases examination time significantly.

3D rendering

MPR with Shadow Glass volume image

Aplio
Women's Health range



PVT-681MVL (11CV3)

Intra Uterine Device (IUD)

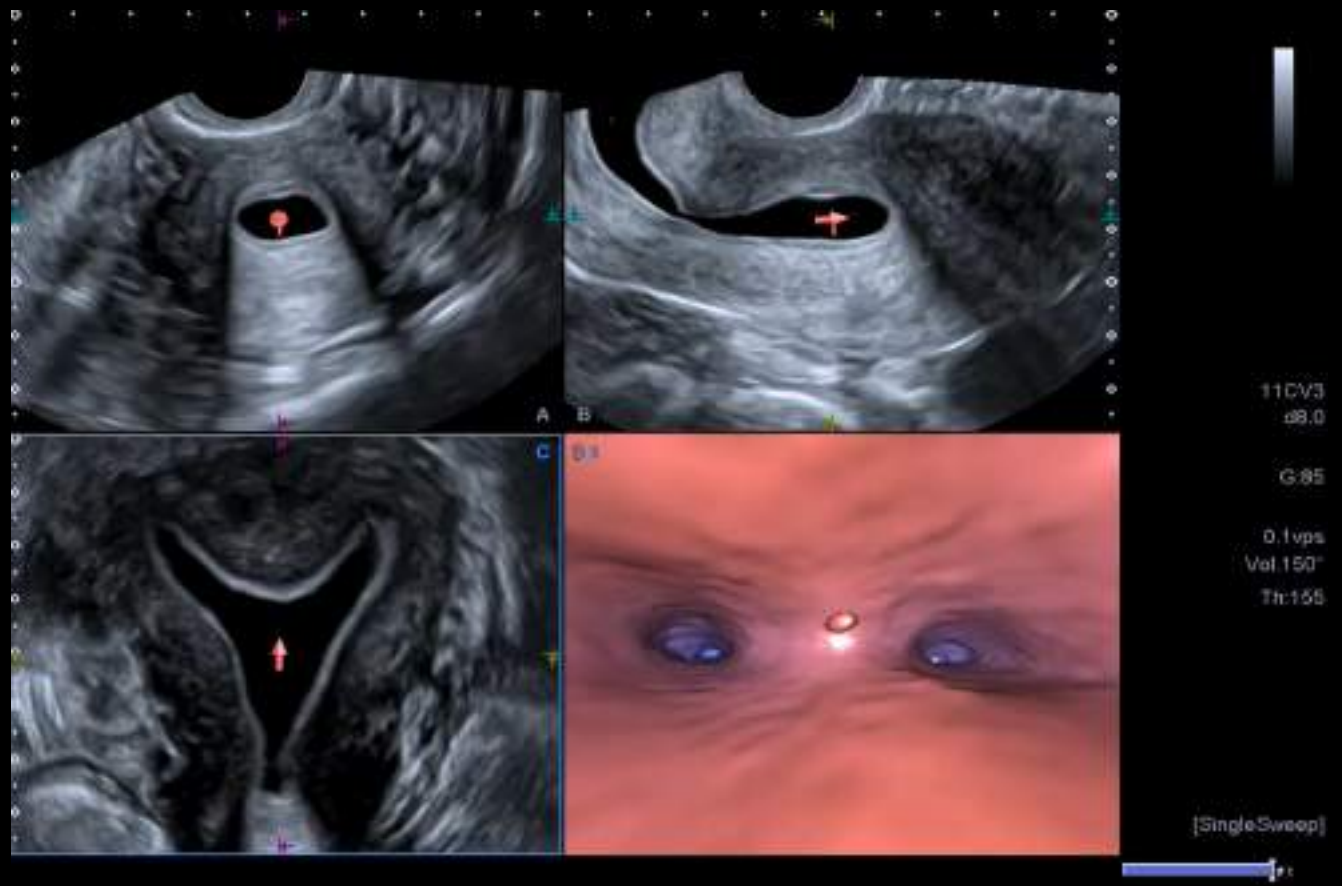
MultiPlanar Reconstruction, Shadowglass, wide angle 3D (150°,130°)

3D gives more accurate location of IUD and the type of IUD can easily be identified.

3D rendering

*FlyThru***

Aplio
Women's Health range



PVT-681MVL (11CV3)

Uterus with saline infusion

Flythru**

Virtual sonohysteroscopy offers even more views than hysteroscopy (from fundus to cervix), causes less patient discomfort and is significant cheaper. In many cases it can prevent hysteroscopy.

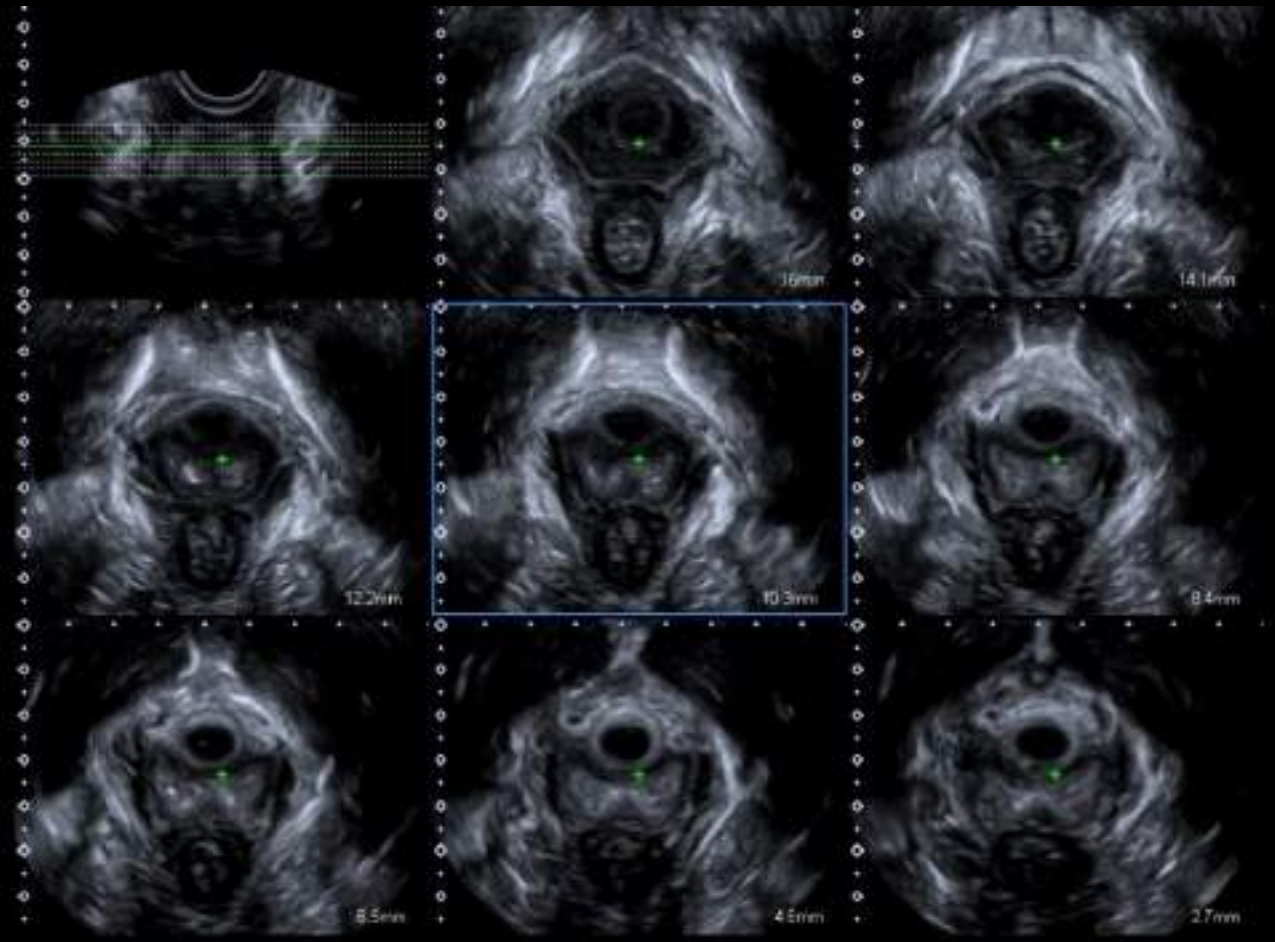
*** only available on Aplio i-series*

3D rendering

Pelvic floor

Aplio

Women's Health range



PVT-681MVL (11CV3)

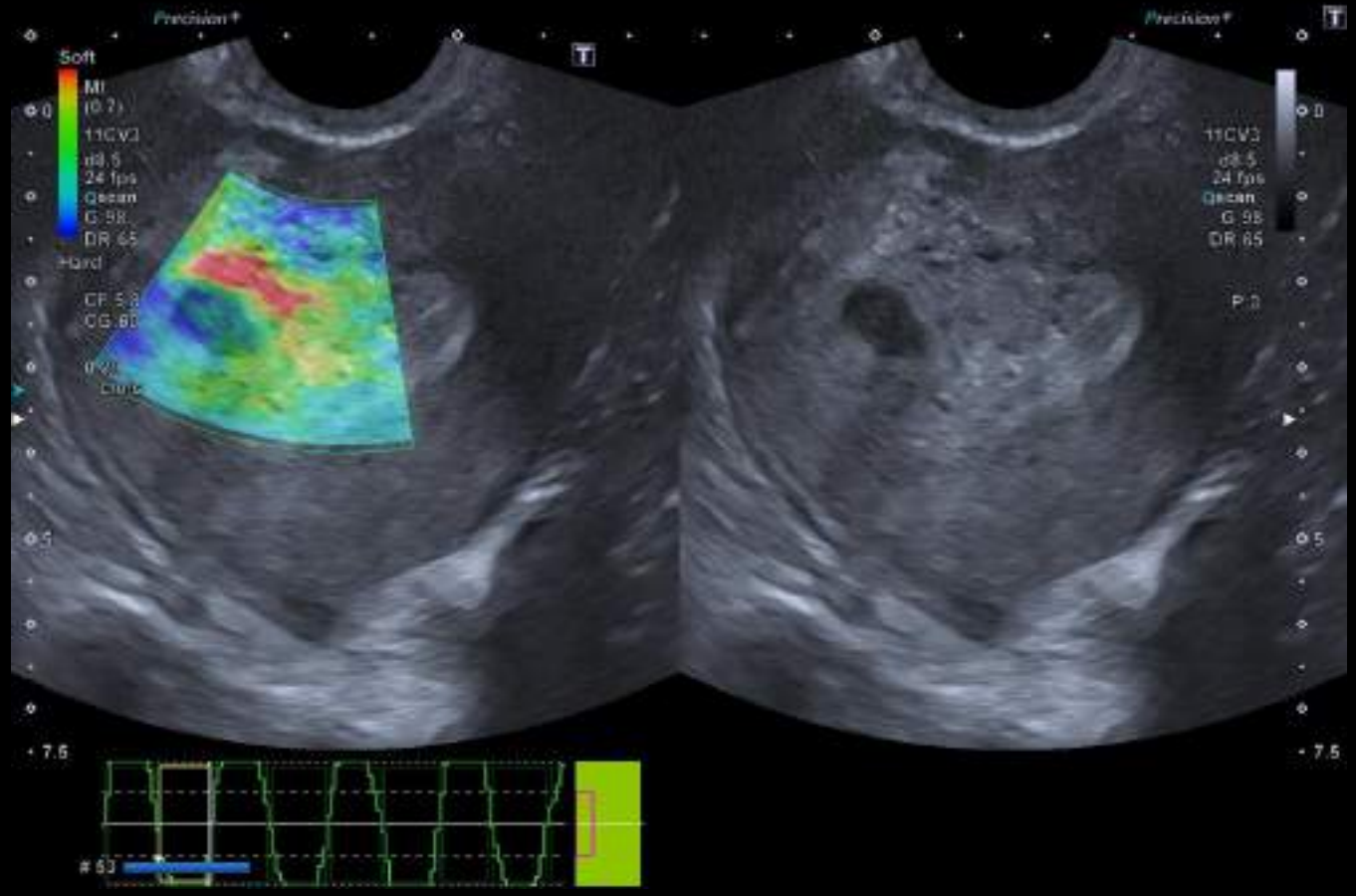
Sphincter, Urethra, Vagina

MultiView C-plane

C-plane reconstruction shows the symmetry of the muscles allowing good patient management.

Strain Elastography

Aplio
Women's Health range



PVT-681MVL (11CV3)

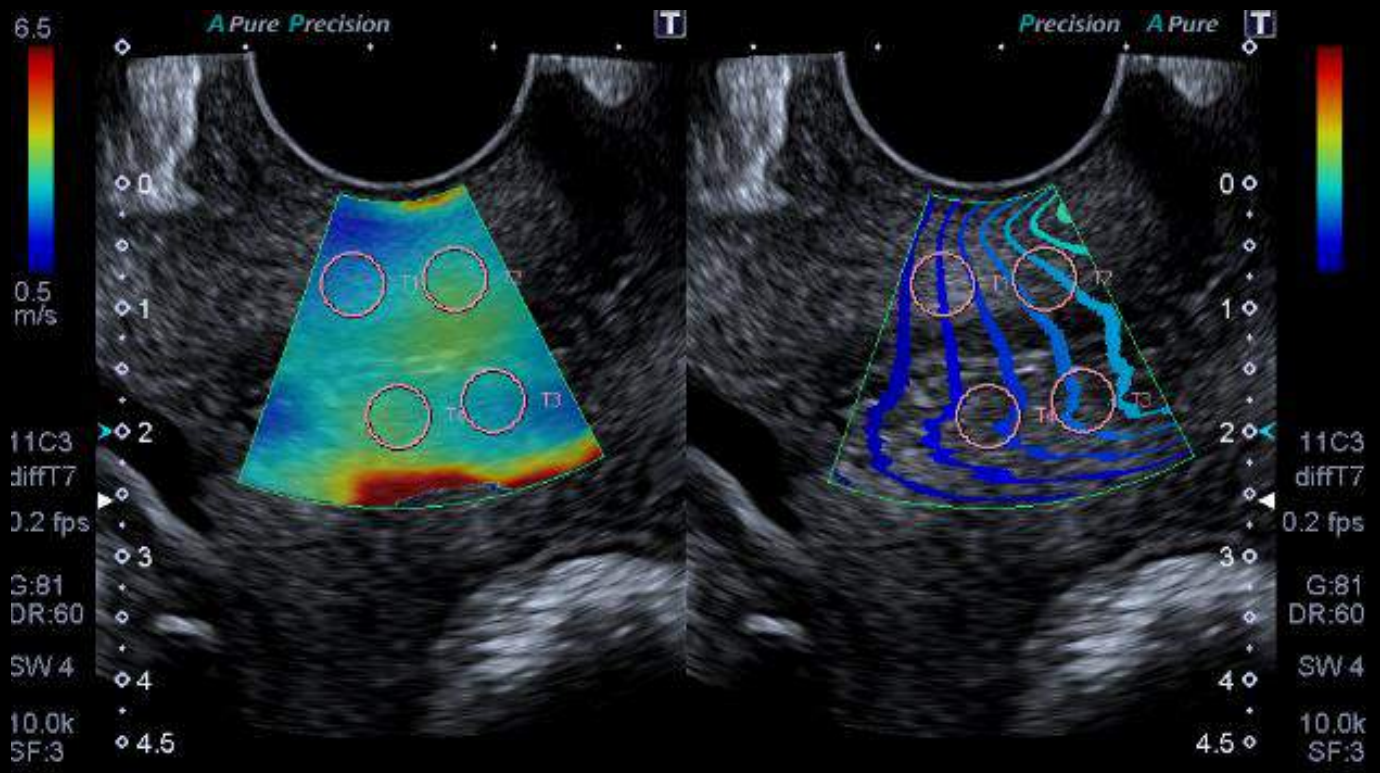
Uterus with small intracavital fibroid

Strain Elastography

Slight manual compression offers information on tissue stiffness. The intracavital fibroid is clearly harder than surrounding tissue.and therefore presented in blue.

Shearwave Elastography

Aplio
Women's Health range



Ave.T1	2.32 m/s	SD.T1	0.16 m/s	Ratio1
Ave.T2	3.11 m/s	SD.T2	0.24 m/s	Ratio2
Ave.T3	2.64 m/s	SD.T3	0.14 m/s	Ratio3
Ave.T4	3.21 m/s	SD.T4	0.13 m/s	Ratio4

PVT-781VT/E (11C3)

Cervix during pregnancy

Shearwave elastography with propagation map and measurements

The stiffnes of the cervix can be quantatively determined with the help of shearwave. No manual compression is needed.

Smart Fusion Imaging

Aplio
Women's Health range

PVI-475BX (8CX1)

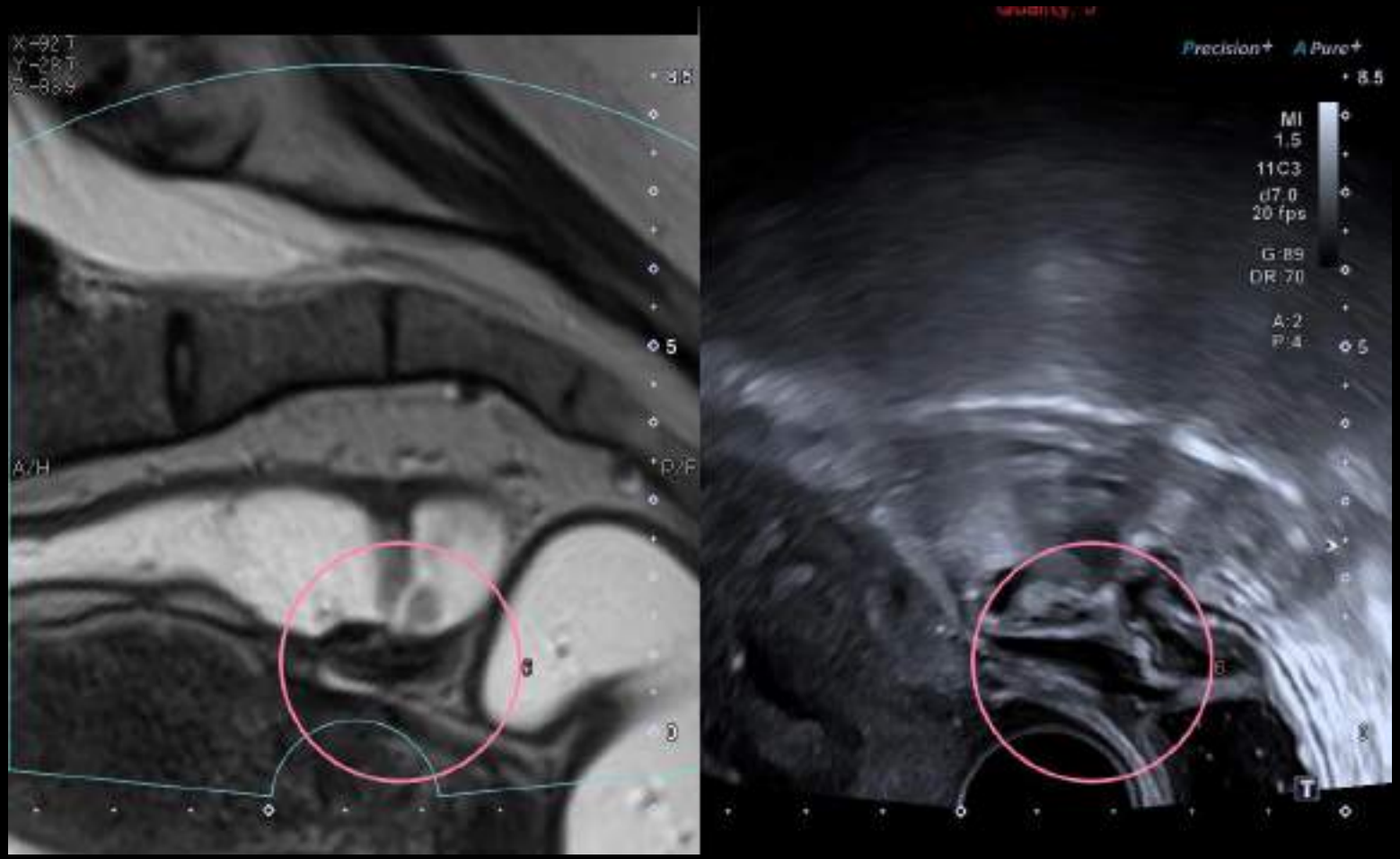
Ascites in case of pelvic lesion

Smart Fusion

The ultrasound image is fused with the CT image allowing accurate orientation in realtime for difficult to find lesions.

Smart Fusion Imaging

Aplio
Women's Health range



PVT-781VT/E

Endometriotic lesion

Smart Fusion Imaging

The endometriotic lesion can be identified easier with the help of the fused MR image and followed up by ultrasound.

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