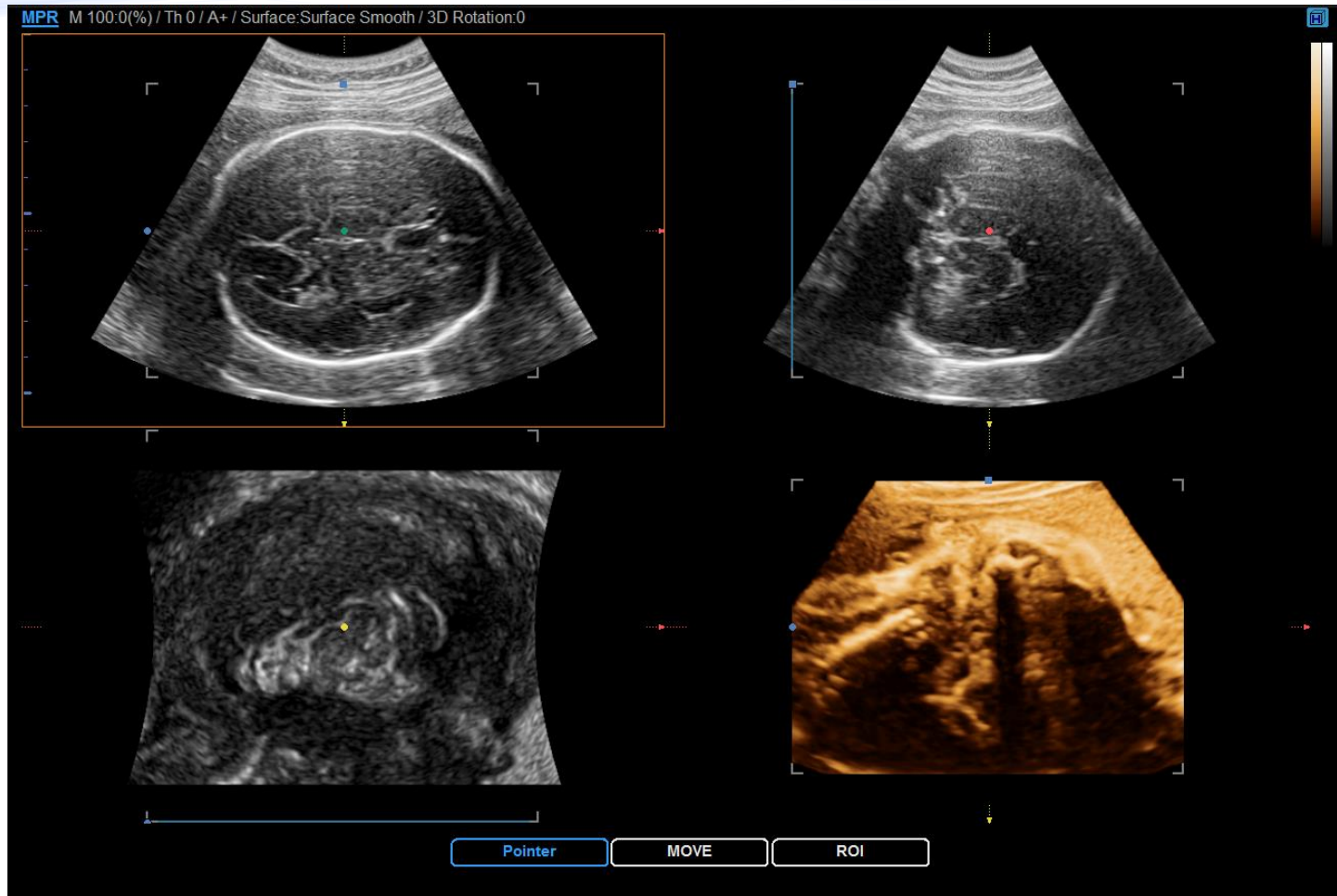


5D CNS+

5D CNS+

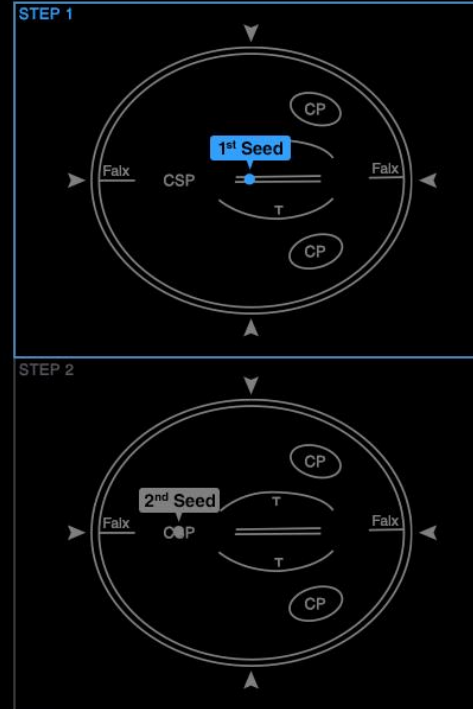
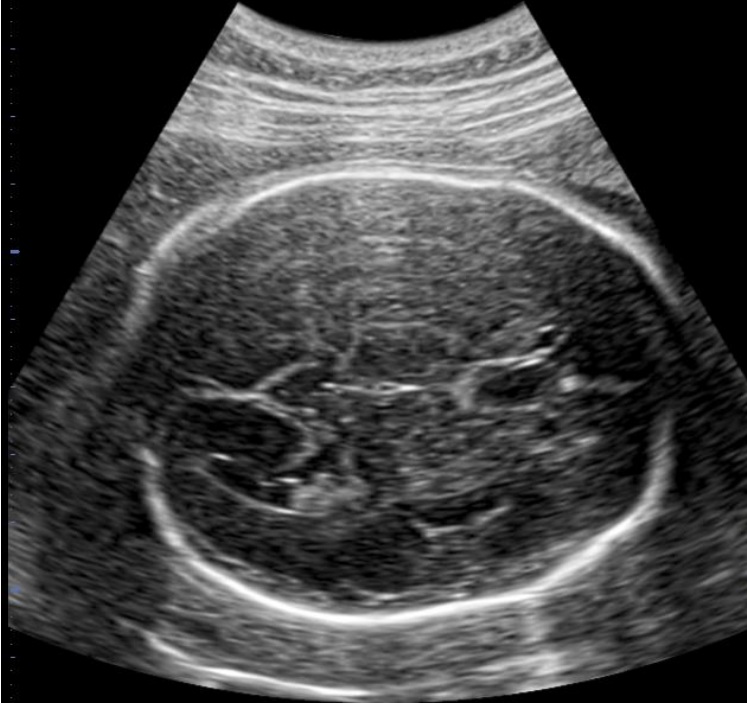
- Option on V3
- Previously 5D CNS on V2
- Additional views added

5D CNS+ Workflow



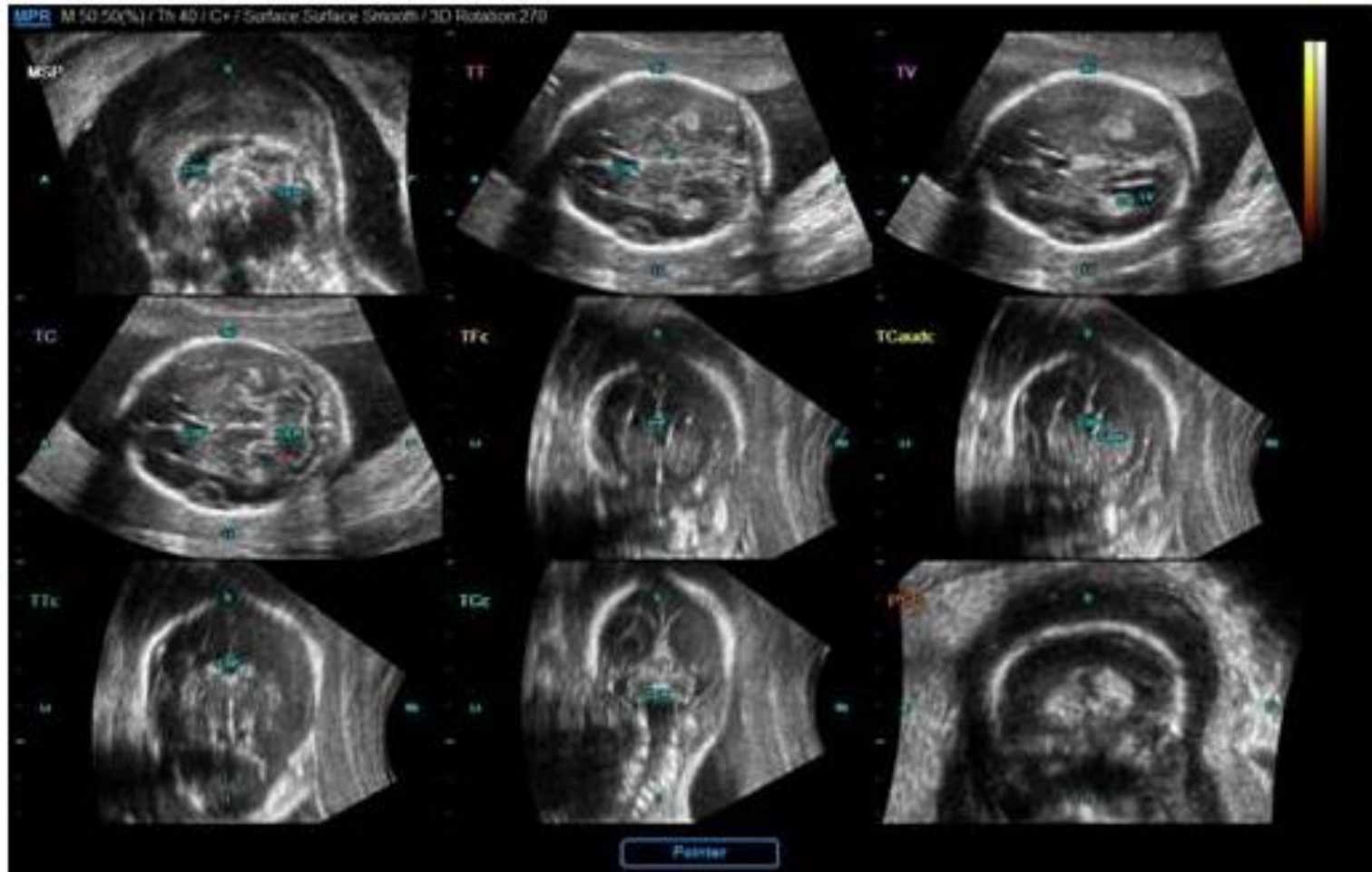
5D CNS+ Workflow

MPR M 100.0(%) / Th 0 / A+ / Surface:Surface Smooth / 3D Rotation:0



CSP: Cavum Septi Pellucidi / CP: Choroid Plexus / T: Thalami

5D CNS + Planes



5D CNS - Planes

TT Trans Thalamic

TV Trans Ventricular

TC Trans Cerebellar

TFc Trans Frontal Coronal

Tcaudc Trans Caudate Coronal

TTc Trans Thalamic Coronal

TCc Trans Cerebellar Coronal

PSP Para Sagittal Plane

MSP Mid Sagittal Plane

5D CNS+

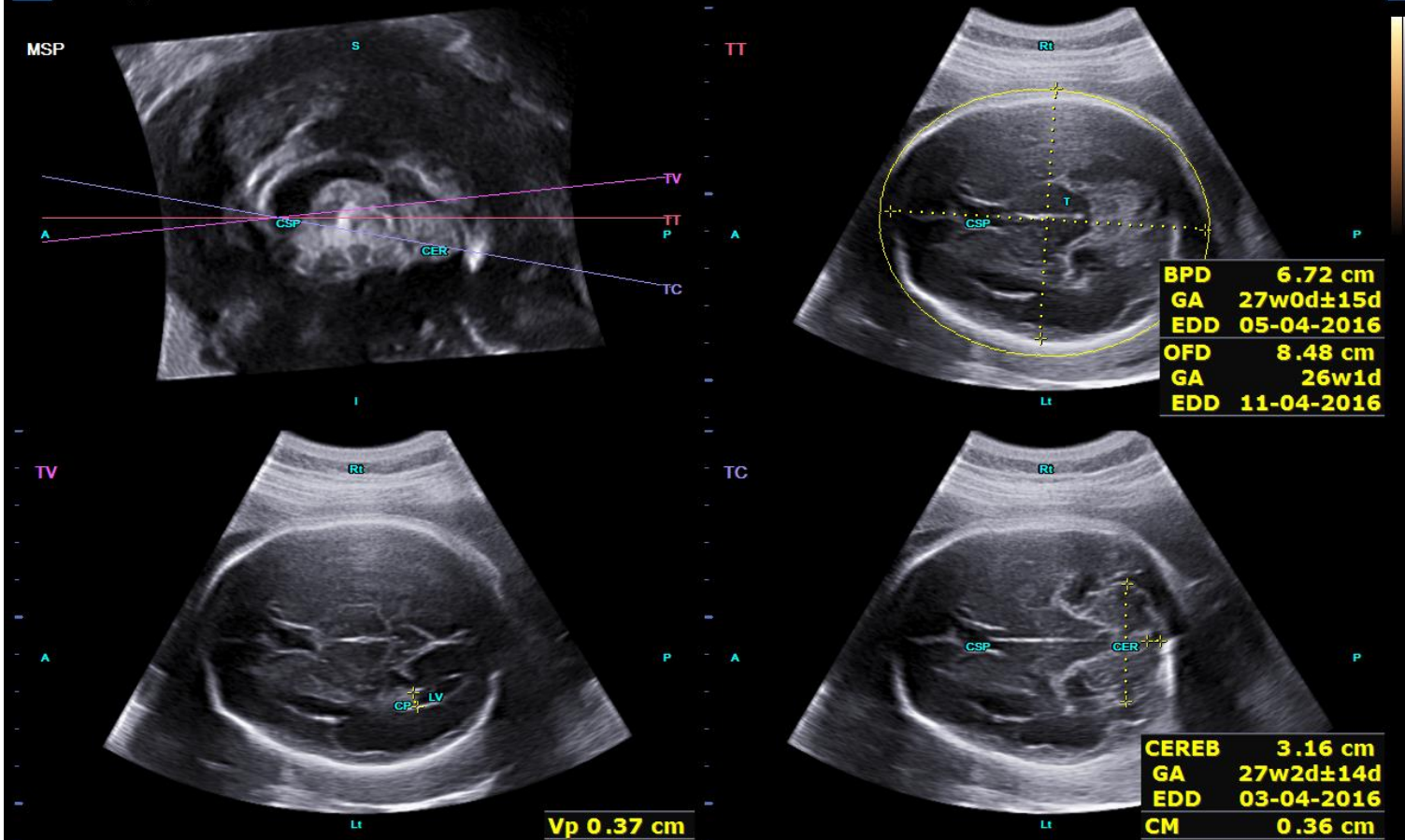
- T Thalami
- CER Cerebellum
- CP Choroid Plexus
- LV Lateral Ventricle
- IHF Inter – Hemispheric Fissure
- Caud – Caudate Nuclei

5D CNS – Touch screen pg1



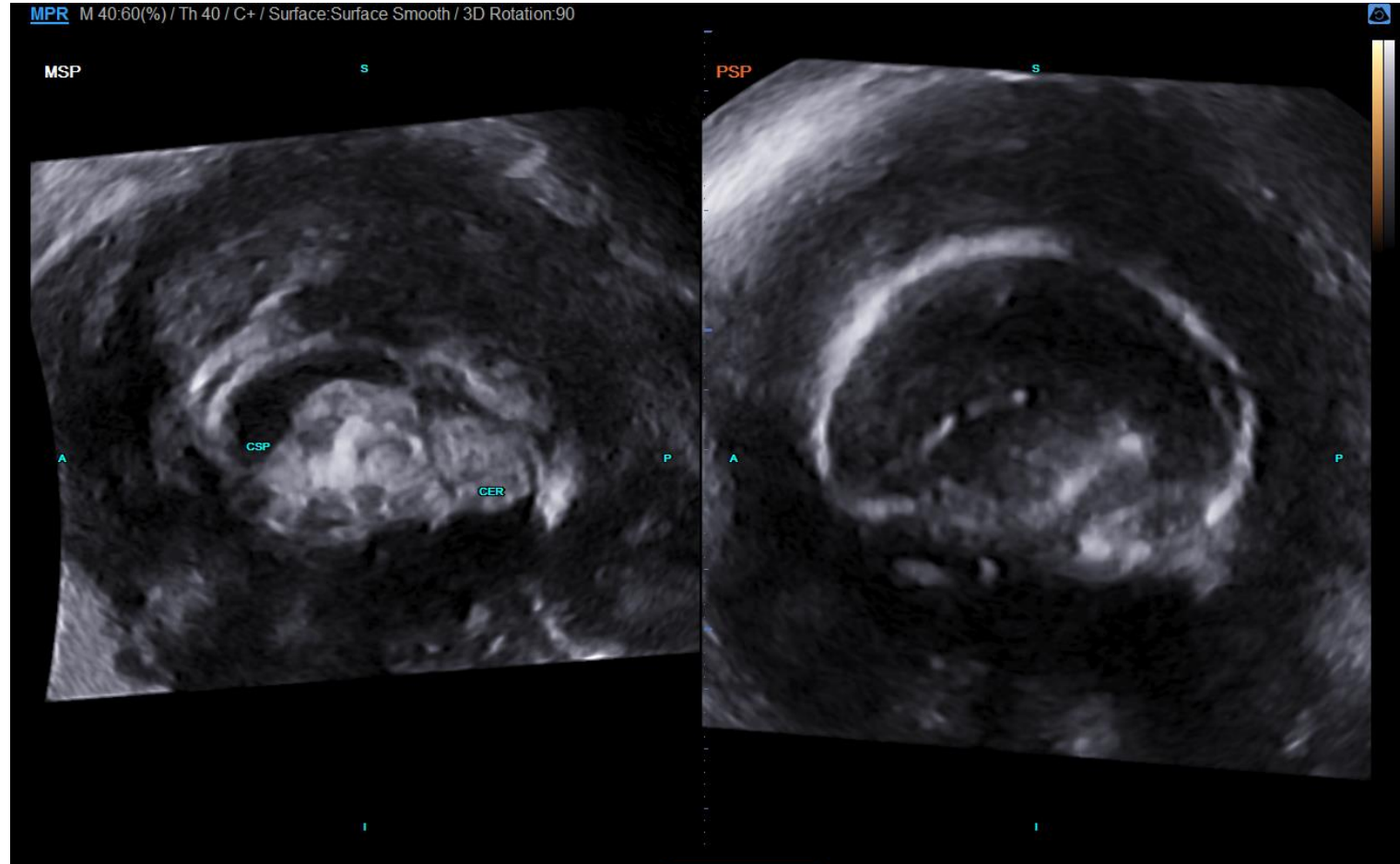
5D CNS+ Axial Planes

MPR M 40:60(%) / Th 40 / C+ / Surface:Surface Smooth / 3D Rotation:90





5D CNS+ Sagittal Planes



5D CNS – Touch screen pg 2



5D CNS - Edit touch screen



5D CNS +

Provides axial, sagittal and coronal views with 9 planes following the international guideline(ISUOG) of fetal brain.



CNS diagnosis using coronal plane

An algorithm based on OmniView technology to reconstruct sagittal and coronal planes of the fetal brain from volume datasets acquired by three-dimensional ultrasound.

G. RIZZO, L. G. POMPILI, M. S. FERREROLLO, L. CARLELLI, S. ARLELLI, S. MAMMARELLI, and D. GREGORI

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Received 10 October 2010; accepted 10 November 2010

ABSTRACT

Objective To describe a new algorithm based on OmniView technology to reconstruct sagittal and coronal planes of the fetal brain from volume datasets acquired by three-dimensional ultrasound.

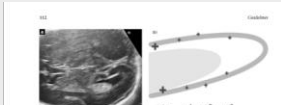
Methods We developed an algorithm that reconstructs sagittal and coronal planes of the fetal brain from volume datasets acquired by three-dimensional ultrasound.

Results The algorithm is based on the OmniView technology to reconstruct sagittal and coronal planes of the fetal brain from volume datasets acquired by three-dimensional ultrasound.

Conclusion The algorithm is based on the OmniView technology to reconstruct sagittal and coronal planes of the fetal brain from volume datasets acquired by three-dimensional ultrasound.

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planes of the brain³. An extended study of fetal CNS anatomy, including sagittal and coronal planes of the brain, may improve the diagnostic efficacy^{4,5}. However,



Agenesis of corpus callosum diagnosis using coronal plane

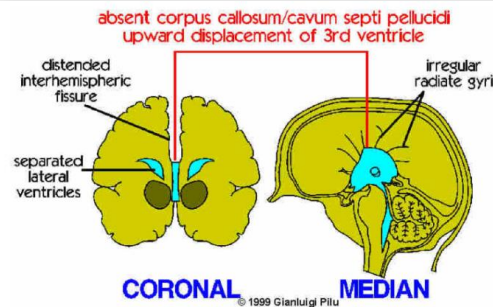


Figure 8: Schematic representation of the findings associated with agenesis of the corpus callosum that can be demonstrated with coronal and sagittal view of the brain.

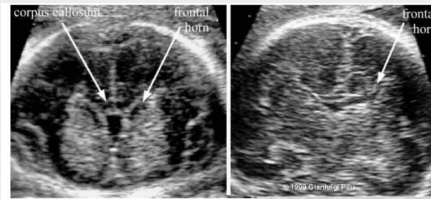
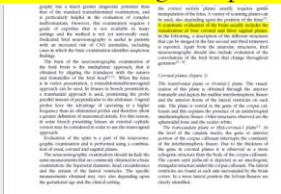


Figure 9: Medial view in a normal fetus (left) and with agenesis of the corpus callosum (right).



Figure 10: Medial view in a normal fetus (left) and with agenesis of the corpus callosum (right).

A systematic evaluation of the brain usually includes the visualization of four coronal and three sagittal planes.



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GUIDELINES

Sonographic examination of the fetal central nervous system: guidelines for performing the ‘basic examination’ and the ‘fetal neurosonogram’