

Supplemental Figures

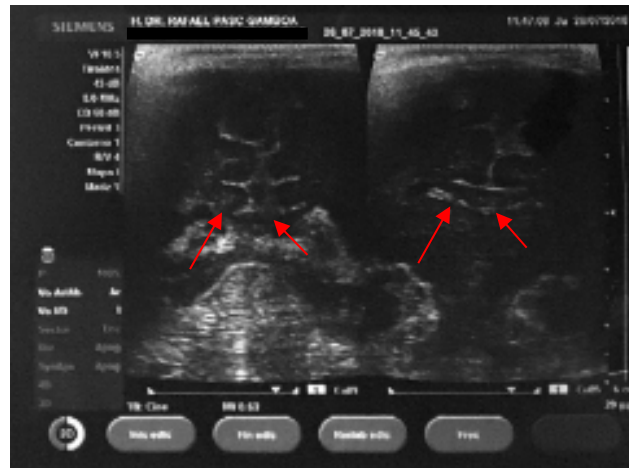


Figure 1 a. Midline sagittal view of cranial ultrasound of patient record number 4 taken at 3 days of life. The image shows hypoplasia of the corpus callosum.

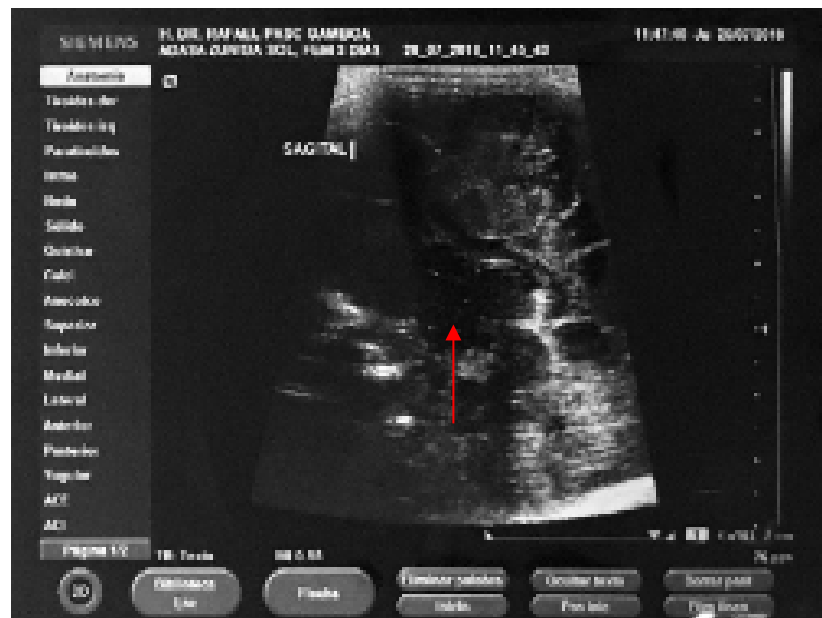


Figure 1 b. Parasagittal view of cranial ultrasound of patient record number 4 taken at 3 days of life. The image shows hypoplasia of the corpus callosum.



Hypoplastic right heart cavities, saliently the ventricle

Tricuspid atresia

Septum defect

Figure 1 c. Fetal echocardiography taken at 25 weeks of gestation on patient record number 4, shows evidence of heart birth defects.



Figure 2 a. Fetal ultrasound of patient record number 6 taken at 28 weeks of gestation, shows biparietal diameter and head circumference



Figure 3 a. Prenatal US at week 32 of gestation of patient record number 7, showing left predominant ventriculomegaly on axial transventricular plane, (yellow arrows on the left panel), calcifications and periventricular leukomalacia.

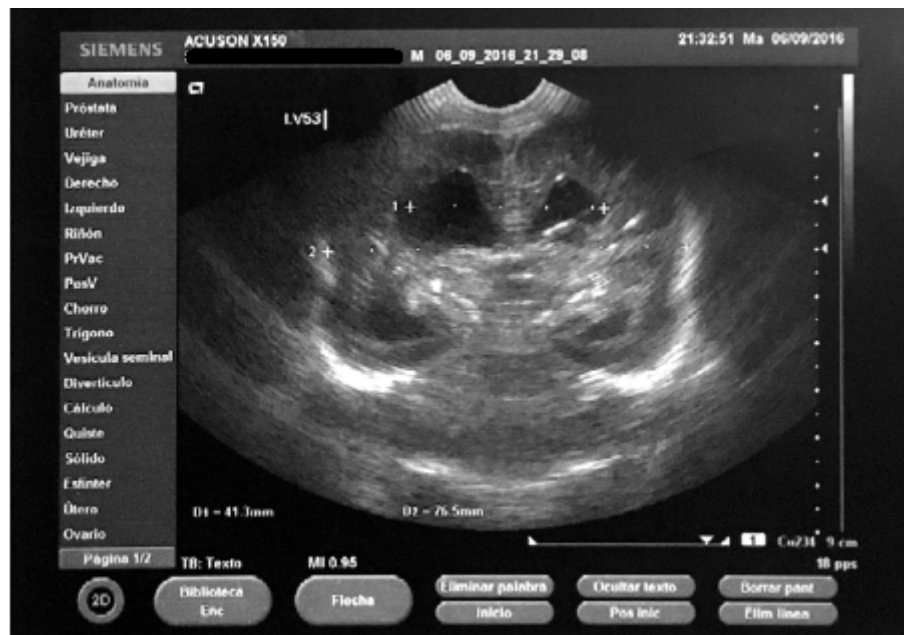


Figure 3 b. Coronal view of cranial ultrasound of patient record number 7 taken at one week of life. The image shows dilation of the lateral ventricles with an Evan Index of 0.53

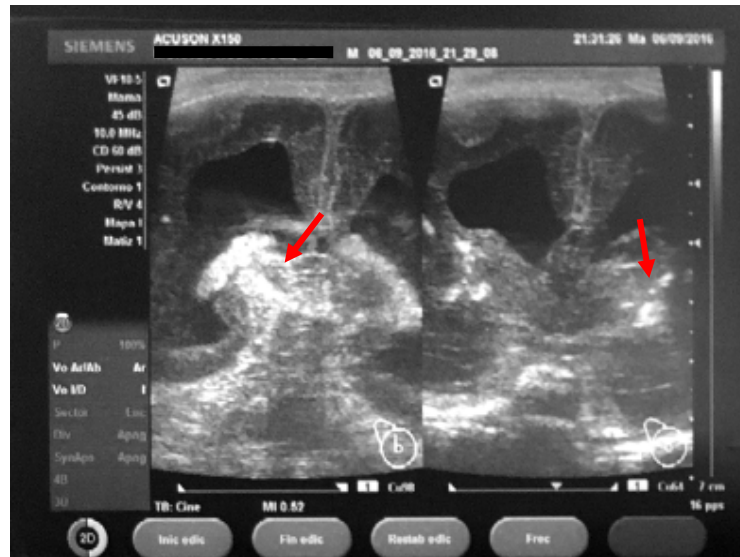


Figure 3 c. Coronal view of cranial ultrasound angled back to show the lateral ventricles of patient record number 7 taken at one week of life. The image shows periventricular calcifications (red arrows).

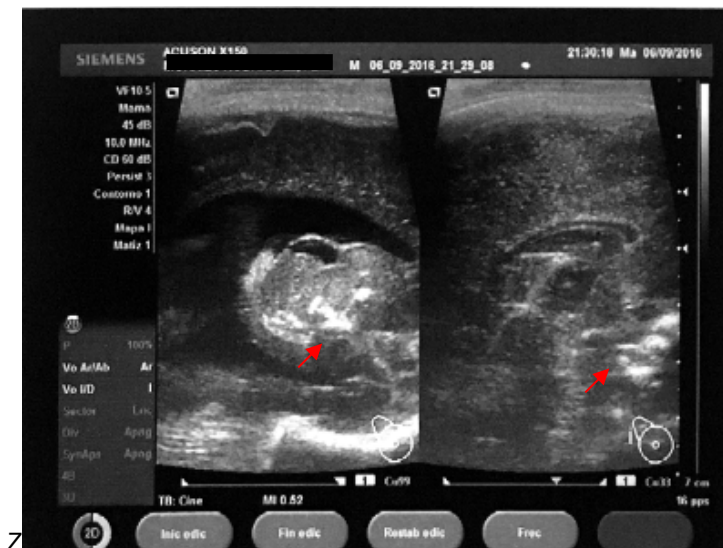


Figure 3 d. Parasagittal view of cranial ultrasound taken on patient record number 7 at one week of life. It shows calcifications (red arrows) near the thalamus.

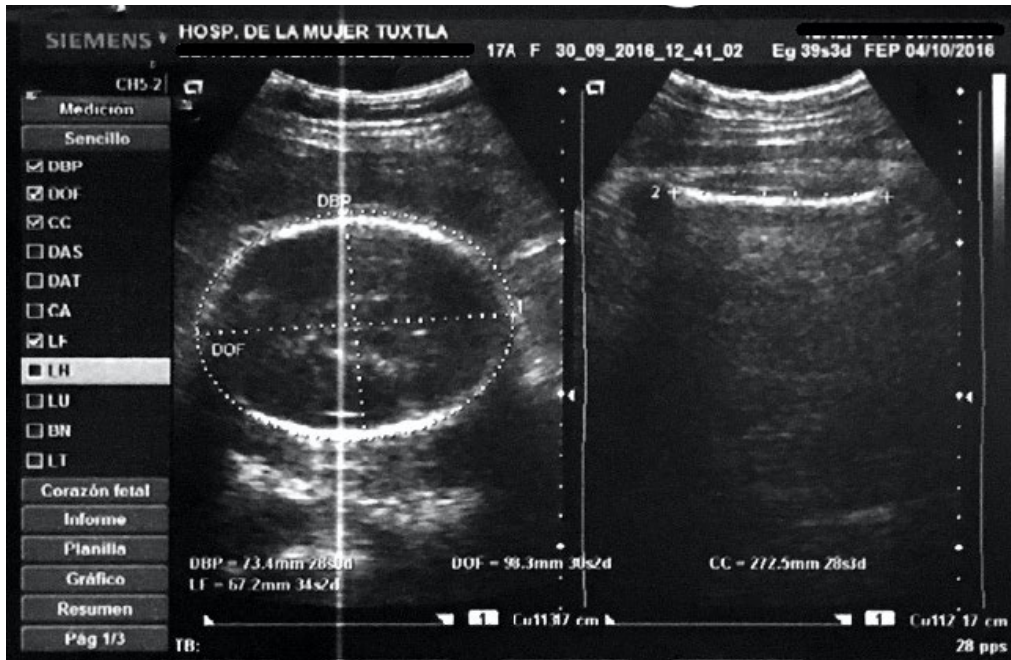


Figure 4 a. Fetal ultrasound of patient record number 8 at 30 weeks of gestation shows a head circumference estimate of 272 mm and femur length of 67.2, a ratio of 24.6, 3 standard deviations above the reference value.

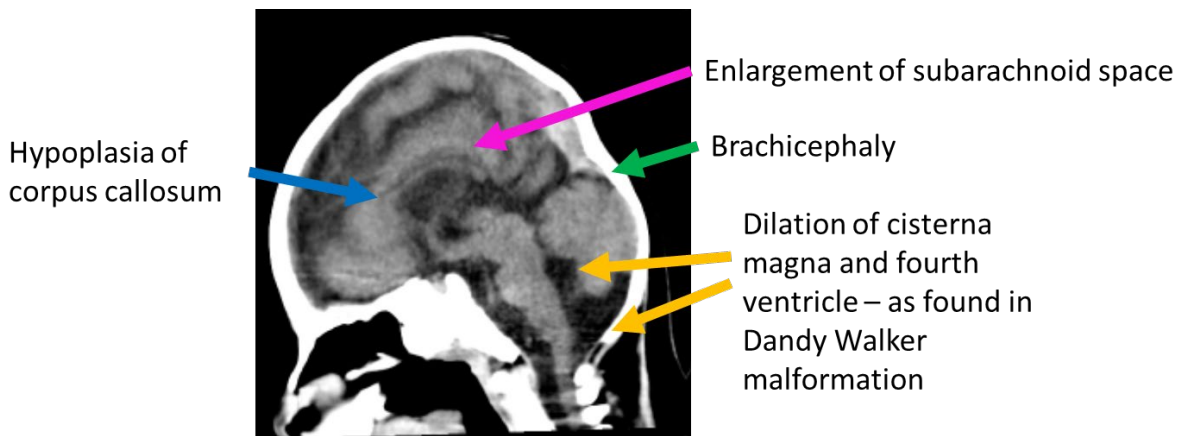


Figure 4 b. Midline sagittal view of computerized tomography of patient 8, undated, shows corpus callosum hypoplasia, enlargement of subarachnoid space, brachycephaly, findings compatible with Dandy Walker malformation.

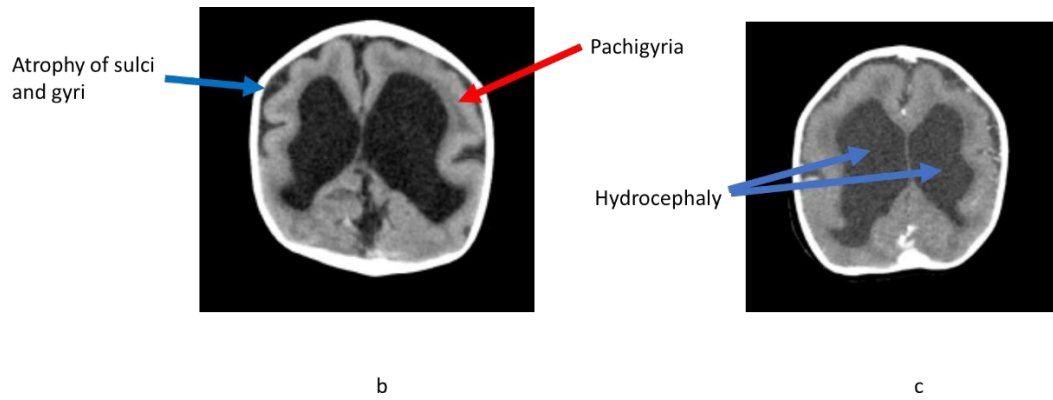


Figure 4 b. and c. Coronal views of neonatal computerized tomography of patient record number 8, undated, shows pachigyria in simple scan (b) and ventriculomegaly/hydrocephaly in contrasted view (c).

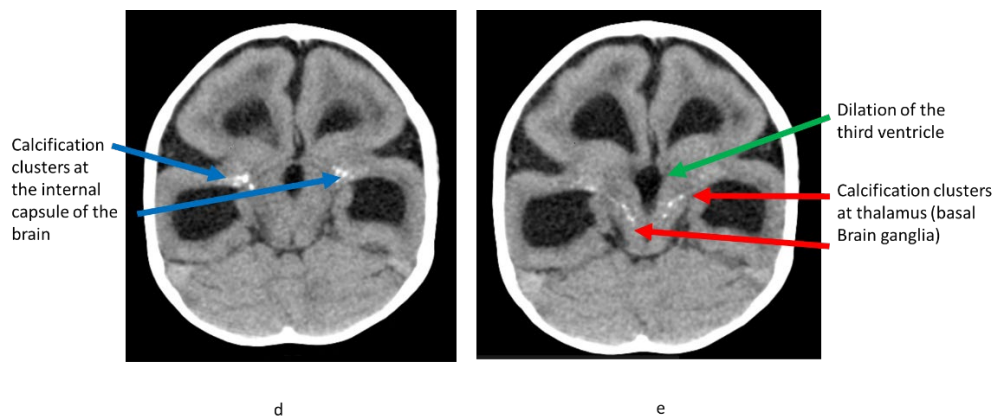


Figure 4 d. and e. Coronal views of neonatal computerized tomography of patient record number 8, undated, shows clusters of calcifications in the internal capsule (d) and at the thalamus (e). The latter also shows a significant dilation of the third ventricle.

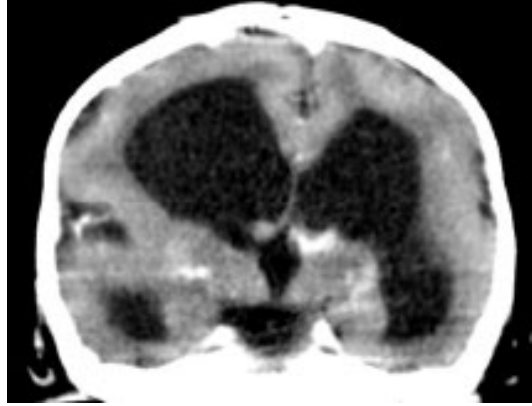


Figure 4 e. Coronal view of neonatal computerized tomography of patient record number 8, undated, shows a significant dilation of the ventricular system in the supratentorial and infratentorial compartments.



Figure 5 a. Image from a fetal ultrasound taken from patient record number 9, at week 23 of gestation, shows lateral ventriculomegaly.

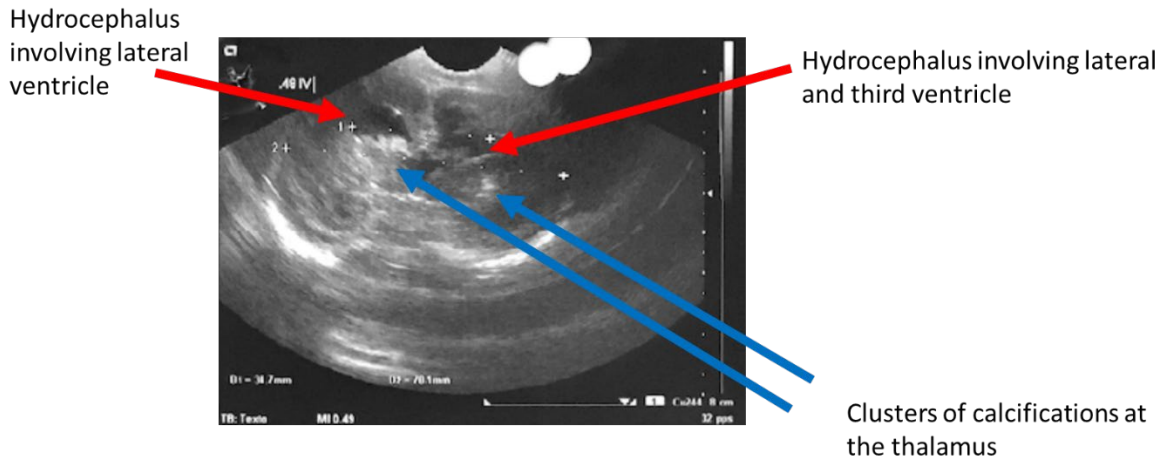


Figure 6 a. Coronal view of cranial ultrasound from patient record number 11, taken on the second day of life, shows hydrocephalus with an Evan Index of 0.48 and clusters of calcifications near the thalamus.

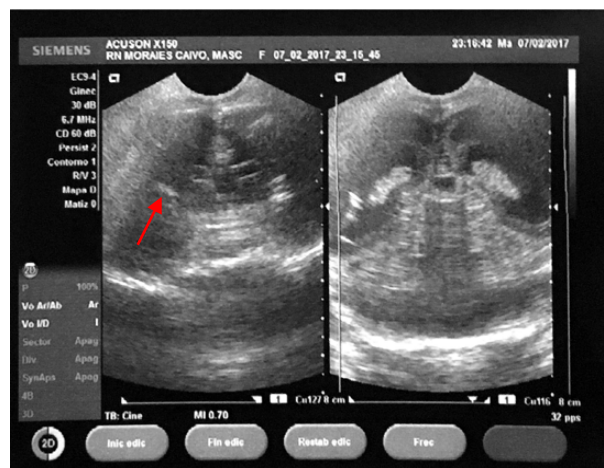
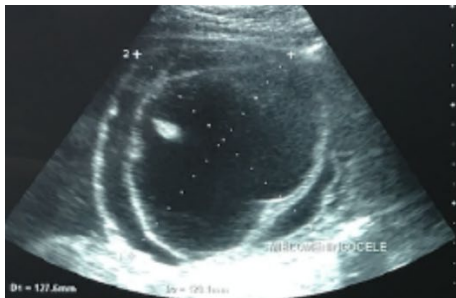


Figure 6 b. Coronal view of cranial ultrasound from patient record number 11, taken on the second day of life, shows periventricular and parenchymatous calcifications.



Figure 7 a. Fetal ultrasound of patient record number 12, taken at 35 weeks of gestation, shows a head circumference of 278 mm and a femur length of 69.2 mm, a HC/LF ratio of 24.8, in excess of the reference value by 3 standard deviations.



a



b

Figure 8 a. Fetal ultrasound of patient record number 13, taken at 38 weeks of gestation, shows cranial meningocele with presence of cerebrospinal fluid (a), and exencephaly (atrophic brain tissue).



Figure 9 a. Axial view of fetal ultrasound from patient number 16, taken at 14 weeks, shows ventriculomegaly.



Figure 10 a. Fetal ultrasound from patient record number 19 taken at 28 weeks of gestation, shows cysts in the choroidal plexus on yellow arrows.

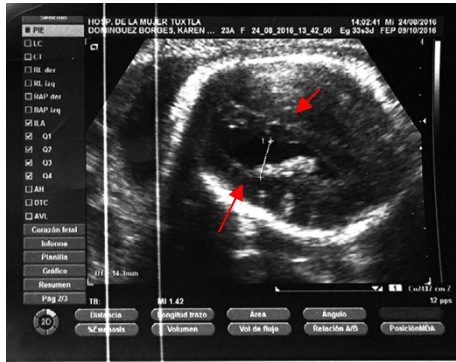


Figure 10 b. Axial view of fetal ultrasound from patient record number 19 taken at 33 weeks of gestation, shows ventriculomegaly.

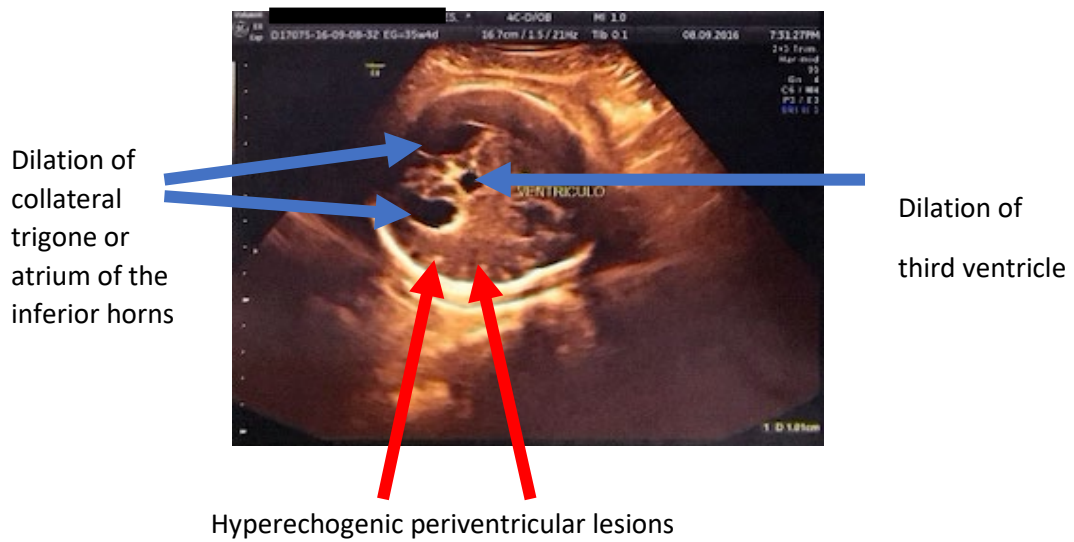


Figure 10 c. Prenatal ultrasound from patient record number 19, taken at 34 weeks of gestation, showing ventriculomegaly and suggesting cysts.



Figure 10 d. Axial view of prenatal ultrasound from patient record number 19, taken at 34 weeks of gestation, showing suggestive image agenesia of corpus callosum.

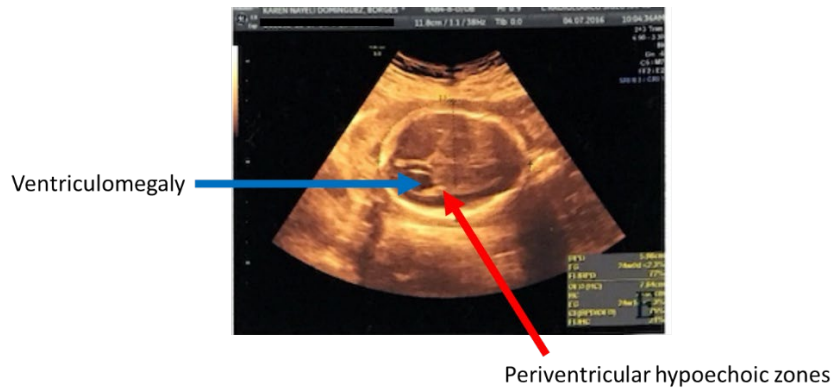


Figure 10 e. Prenatal ultrasound from patient record number 19, taken at 34 weeks of gestation, showing ventriculomegaly and suggesting cysts.

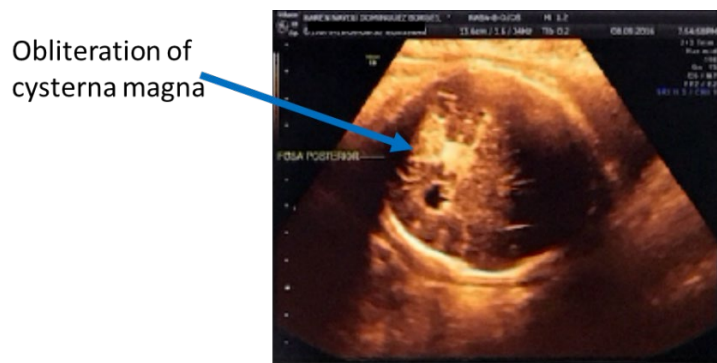


Figure 10 f. Prenatal ultrasound from patient record number 19, taken at 34 weeks of gestation, showing obliteration of *cisterna magna*.

Sacral meningocele

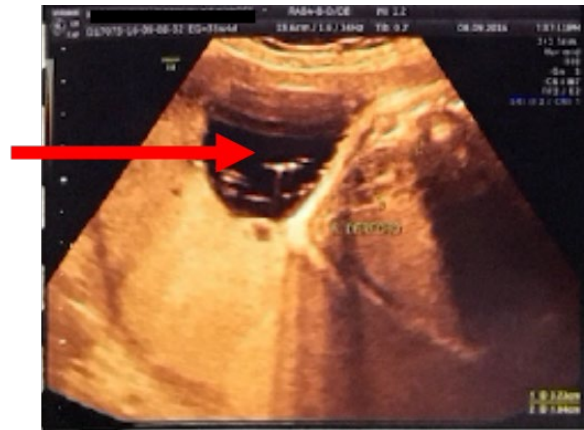


Figure 10 g. Prenatal ultrasound from patient record number 19, taken at 34 weeks of gestation, showing sacral meningocele.



Figure 10 h. Sagittal view of prenatal ultrasound from patient record number 19, taken at 34 weeks of gestation, showing posterior cyst of origin in lumbar spine.