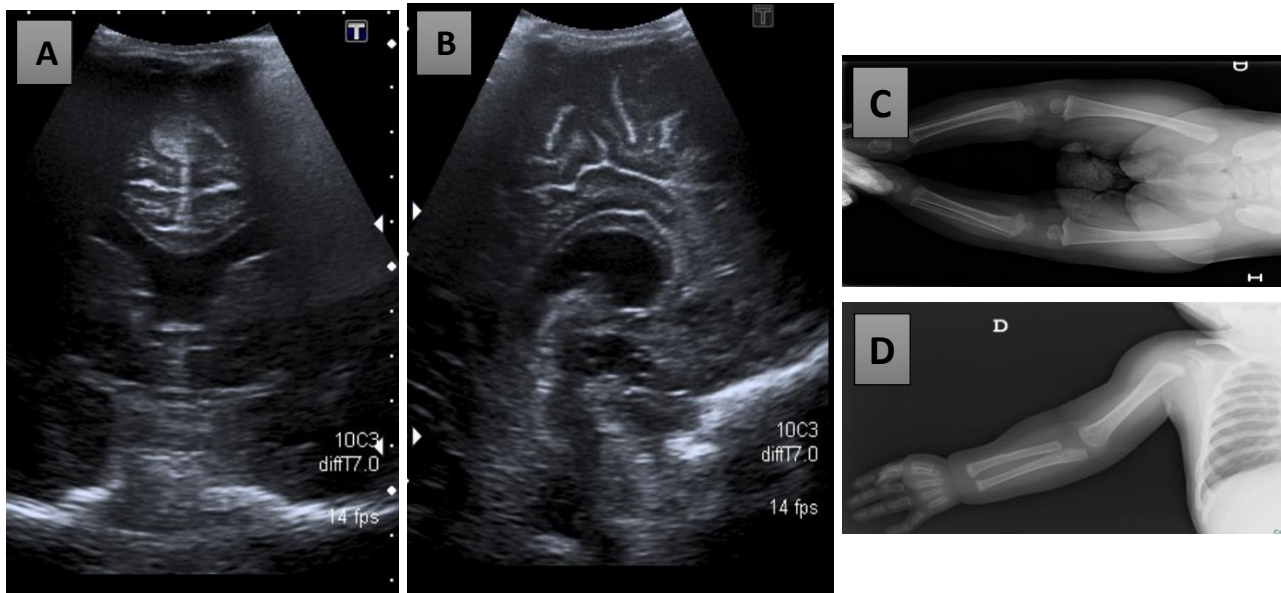


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**Objective:** We present a case report of a disgenesis of corpus callosum (CC) associated with bone dysplasia

**Methods:** Review of clinical reports of pregnancy and pediatric follow up of the newborn



**A-B: Neonatal Transfontanelar US: Absence of septum pellucidum. CC is thin and disgenetic (splenium of CC not visualized)(A: coronal view; B:sagittal view); C-D: X-Ray of IIEE (C) and SSEE (D): shortening of bones**

**Conclusion:** Most CC/CSP anomalies can be detected before 22 weeks of gestation. Related and non-related CNS anomalies must be ruled out. MRI can confirm the diagnosis and add new information (neuronal migration). Evolution of the newborns depend on associated anomalies.

## **CASE REPORT:**

**41 year G1 with rhizomelic bone dysplasia**

- **1<sup>st</sup> trimester US:**
  - TN: 1.74 mm (normal),  $\beta$ hCG: 0.432 (MoM); PAPP: 0.596 (MoM)
  - Risk of Trisomy 21: 1/1056, Trisomy 13 or Trisomy 18 : 1/2463
- **2<sup>nd</sup> trimester US:** disgenetic CC + bilateral mild ventriculomegaly (10-12 mm) + cerebellar hypoplasia + limb shortening (femur length p3)
- TORCH, parvovirus infection: negative
- Karyotype and arrays: normal
- MRI (22 and 31 weeks): partial agenesis of corpus callosum (absence of splenium) + cerebellar cystic encephalomalacia + moderate ventriculomegaly (12.8 mm)
- Evolution of pregnancy: IGR + mild polyhydramnios in 3<sup>rd</sup> trimester
- Cesarean section at 39 weeks (non-progression of labor)
- **Newborn:** girl, 2495 g , Apgar 7/10
  - Post-natal MRI: confirmed previous findings
  - Bone X-Ray: shortening and delay of ossification of calcaneum
  - Arrays panels specific for bone dysplasia: negative
  - EEG: excess of beta activity (diffuse brain pathology)
- **3 years:** need reinforcement of early neurologic intervention and rehabilitation (walk at 3 years). Mild psychomotor delay persists at the moment.