



## Prenatal Ultrasound FAQ

### Most frequent diagnostic queries in sonographers

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#### Main Objective:

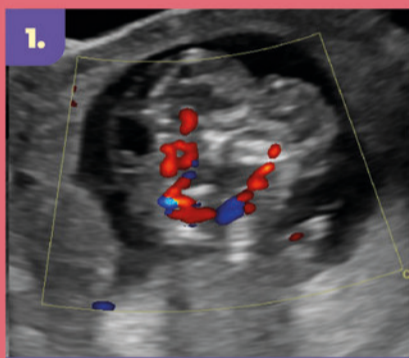
To analyze and describe the most frequent diagnostic queries raised by ultrasonographers in a clinical support platform in one of the largest diagnostic laboratories in Mexico.

#### Materials and methods:

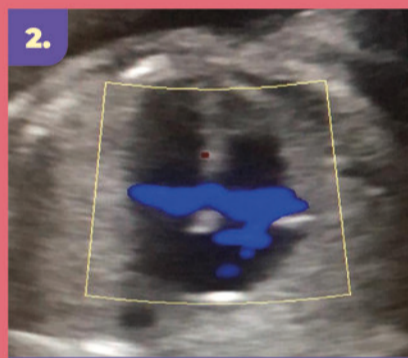
The information of 649 requests for clinical support due to diagnostic doubts by sonographers in prenatal ultrasound was retrospectively analyzed.

#### Results:

Pathological findings were identified in 545 cases (83.9%). The most frequent reasons for requesting clinical support were: fetal malformations (330 cases, 50.8%) and hemorrhagic collections (96 cases, 14.8%). The reasons for diagnostic queries due to malformation were CNS (15%), cardiac malformations (6.9%), upper urinary tract dilation (6.9%). All doubts were resolved by the support team.



1. Thoracopagus twins



2. Ventricular septal defect

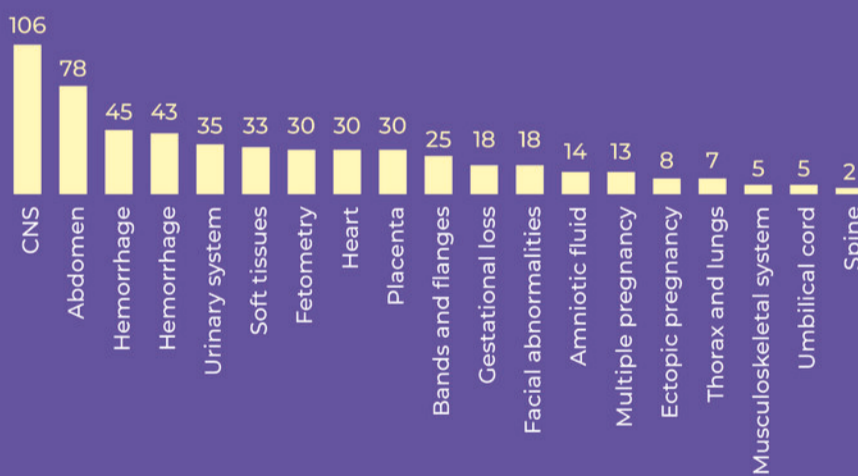


3. Onfalopagus twins

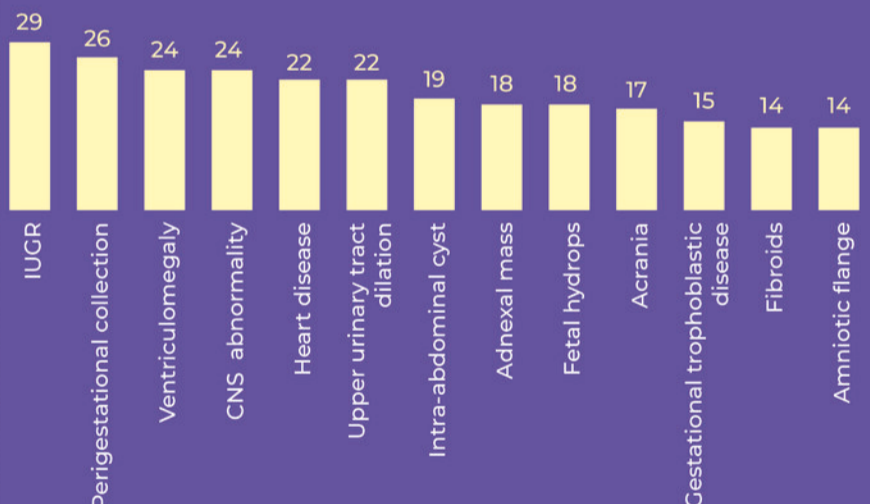


4. Acrania

#### Questions by subtype



#### Most frequent findings



#### Conclusion:

Fetal malformations and hemorrhagic collections are the most frequent reasons for diagnostic doubts in a clinic that has a real-time clinical support system.

#### References:

- Miric Tesanic D, Merz E. Artifacts in 3D Prenatal Sonography. 1.ª ed. ultraschall Med - European journal of ultrasound. New York: Georg Thieme Verlag; 2020. pp. 286–291.
- Leistikow EA, Costako DT, Jones NE, Bester SD, Deering WM, Stevens MK. Isolated Large Third-Trimester Intracranial Cyst on Fetal Ultrasound: Fact or Fiction?. 4.ª ed. Pediatrics. LaCrosse: Franciscan Skemp Healthcare ; 2000. pp. 844–848.
- Laing FC, Frates MC, Brown DL, Benson CB, Di Salvo DN, Doubilet PM. Sonography of the fetal posterior fossa: false appearance of mega-cisterna magna and Dandy-Walker variant. Radiology. 1994 Jul; 192(1):247-51. doi: 10.1148/radiology.192.1.8208946. PMID: 8208946.
- D'Antonio F, Khalil A, Garel C, Pilu G, Rizzo G, Lerman-Sagie T, Bhide A, Thilaganathan B, Manzoli L, Papageorgiou AT. Systematic review and meta-analysis of isolated posterior fossa malformations on prenatal ultrasound imaging (part 1): nomenclature, diagnostic accuracy and associated anomalies. Ultrasound Obstet Gynecol. 2016 Jun;47(6):690-7. doi: 10.1002/uog.14900. Epub 2016 May 10. PMID: 25970099.