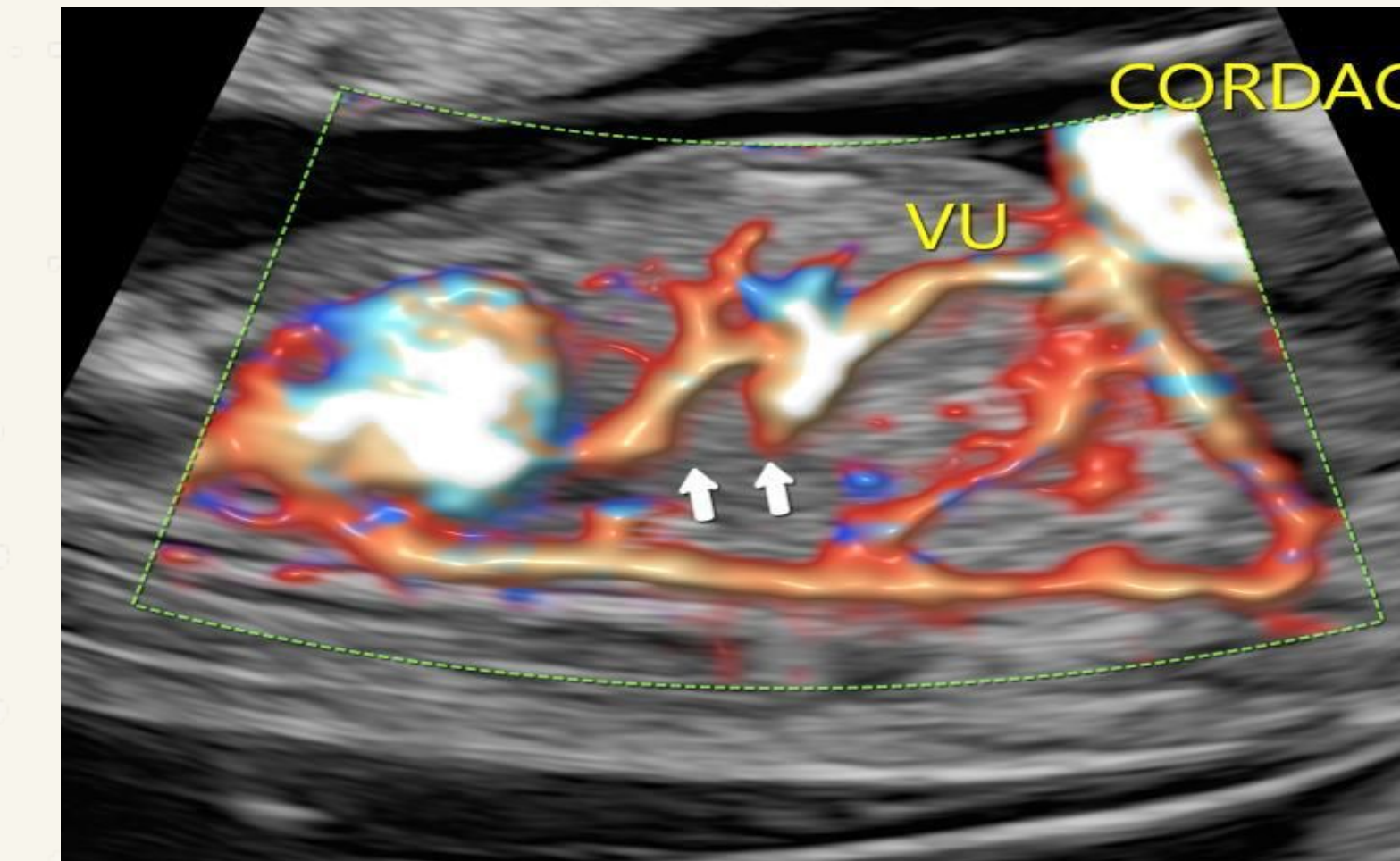
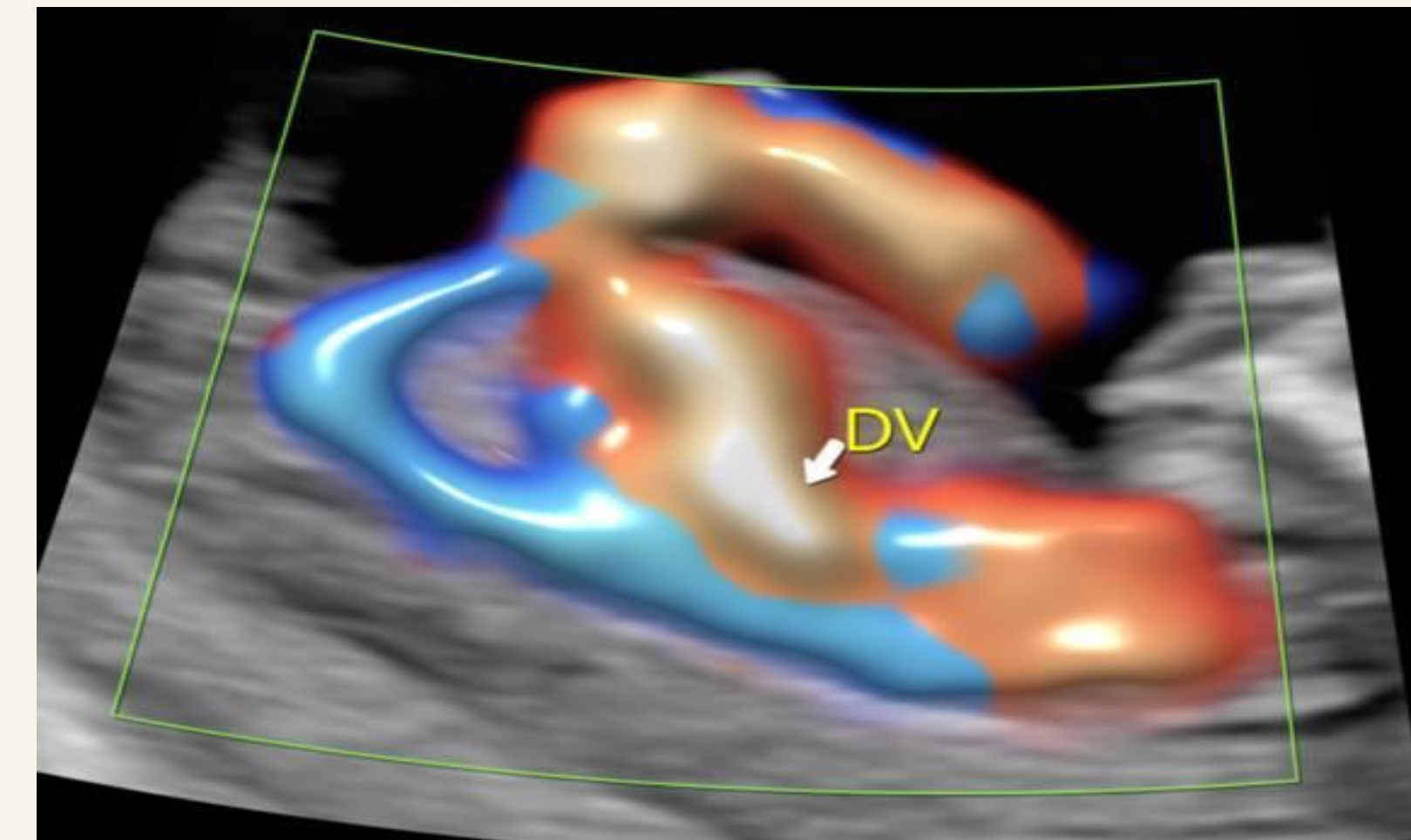


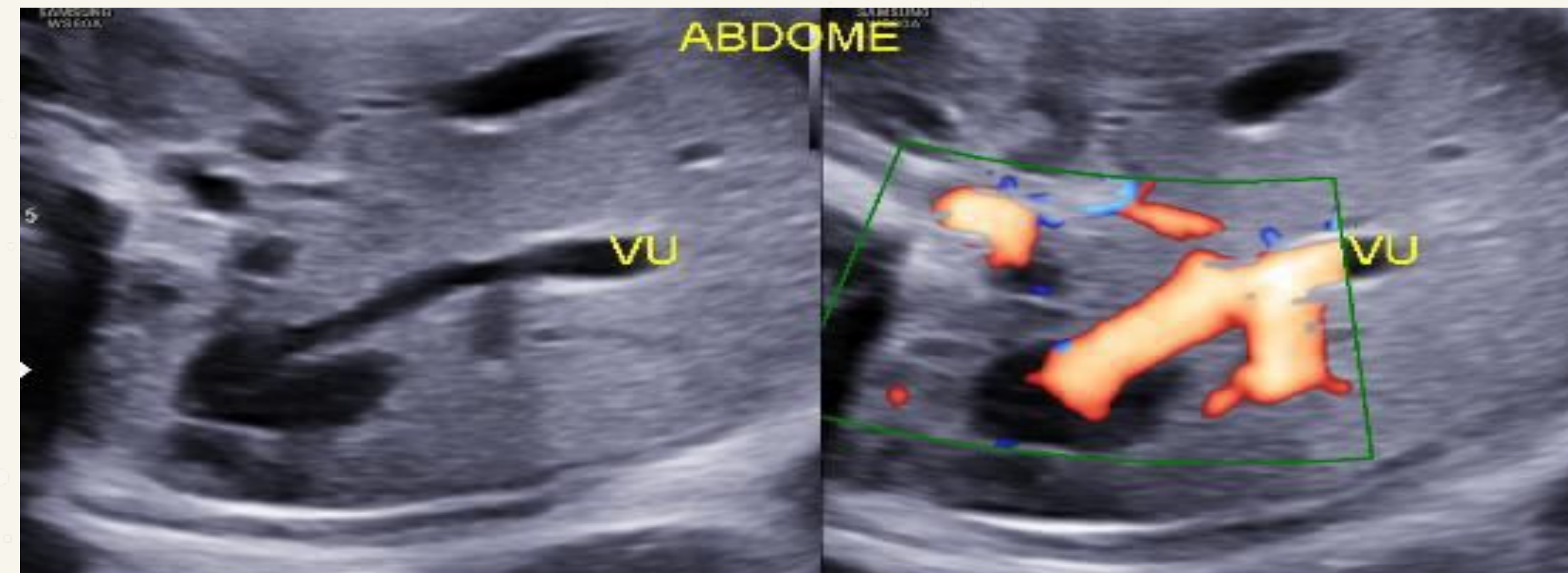
Prenatal diagnosis of fetal ductus venosus agenesis with anomalous drainage to the portal sinus in the second trimester. (EP 05.72). Lucas J. Souza, Denilson J. de Souza, Ana C. Noldin, Eduardo Pradi, Igor V. Belmonte, Eduardo D. Ferreira, Ana Carolina F. De Souza, Gabrielle F. da Cruz.

Objectives: To describe rare cases of ductus venosus agenesis (DVA) diagnosed prenatally

- To highlight the **ultrasound and Color Doppler findings** that differentiate DVA from other cystic abdominal anomalies.
- **Population:** 2 pregnant patients referred to the fetal medicine unit for evaluation of a **cystic structure in the right fetal hypochondrium**.
- **Gestational age:** 23 and 25 weeks.
- **Initial differential diagnoses:** hepatic cyst and duodenal atresia.
- **Ultrasound findings:**
 - Anechoic cystic area in the right hepatic lobe.
 - Turbulent flow on Color Doppler.
 - Inferior connection to the **umbilical vein**.
 - Superior connection to the **portal sinus, hepatic vein, and right atrium**.
- **Notable observation:** On transverse abdominal view, this cystic structure mimicked the “**double bubble sign**” of duodenal atresia → authors propose the descriptive term “**double bubble-like sign**” for such cases.



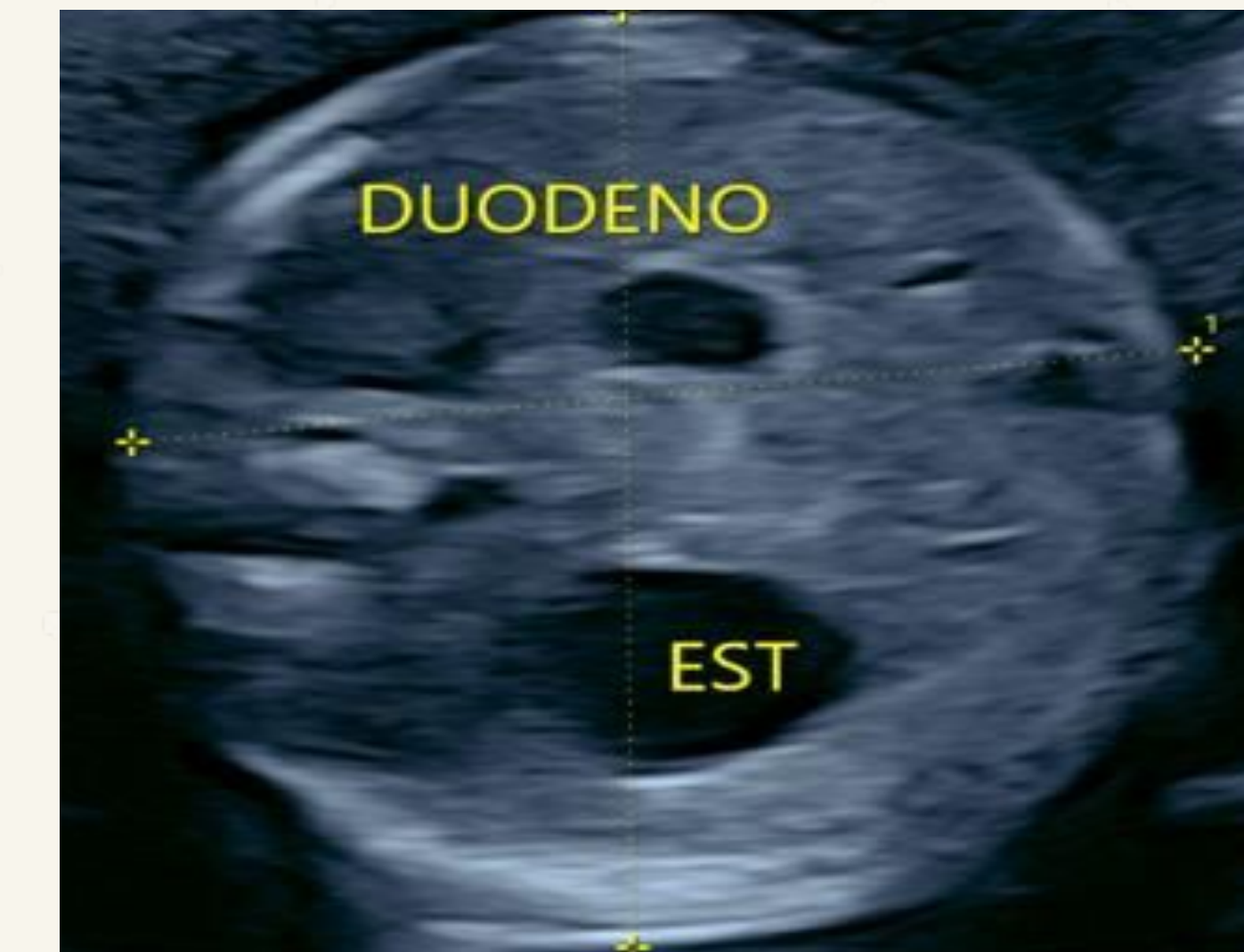
Normal Ductus venosus / Ductus venosus agenesis



Intrahepatic variants showing direct connection of the umbilical vein to the portal sinus



Double bubble-like sign



Duodenal atresia

- **Associated findings:** No additional malformations detected.
- **Genetics:** Fetal karyotypes were normal.
- **Pregnancy outcome:** Both fetuses demonstrated normal growth and vitality until delivery.
- **Postnatal outcome:** Both neonates were born healthy and showed **normal development during the first year of life**.

Conclusions:

- **Ductus venosus agenesis** is a rare vascular anomaly, with intrahepatic variants showing direct connection of the umbilical vein to the portal sinus.
- **Color Doppler** plays a crucial role in differentiating hepatic vascular cysts from gastrointestinal anomalies such as duodenal atresia.
- The proposed “**double bubble-like sign**” may be a useful sonographic marker for this condition.
- Prognosis can be favorable when **DVA occurs in isolation**, as shown by normal neonatal outcomes.