



EP05.77 Atypical thoracic mass in fetus: A case report

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Introduction

Prenatal identification of congenital thoracic masses is considered a challenge. Differential diagnosis of fetal thoracic masses include congenital diaphragmatic hernia, congenital pulmonary airway malformation, bronchopulmonary sequestration, hybrid lesions, foregut duplication cysts, congenital lobar overinflation, thymomas, teratomas and even rhabdomyomas

Case description

- 35-year-old primigravida at 37 weeks
- Mild hypogastric cramping; no relevant medical history.

Fetal Evaluation:

- Appropriate growth (44th percentile, 3114 g).
- Detailed scan revealed a well-defined, mixed-echogenic mediastinal mass (15 cc). This mass was displacing the right lung and heart and echogenicity resembled liver tissue.

Differential diagnosis included thymoma vs. diaphragmatic eventration

Risk Assessment: CVR = 0.41; TEDI = 14

Perinatal Management:

EXIT procedure planned to secure airway while maintaining placental support

Neonate transitioned to postnatal care

Multidisciplinary follow-up by neonatology and pediatric surgery

Why Is This Crucial?

Opportune prenatal diagnosis of thoracic masses, gives us the opportunity to design perinatal interventions. Thus, with the principal objective to reduce perinatal mortality secondary to respiratory complications. Additionally, multidisciplinary management group is considered crucial in these cases

Conclusion

Fetal thymoma is an exceptionally rare mediastinal mass with potential for critical airway compromise. Timely prenatal diagnosis enables strategic perinatal planning—such as the EXIT procedure—demonstrating how multidisciplinary care can directly improve neonatal survival in high-risk thoracic anomalies

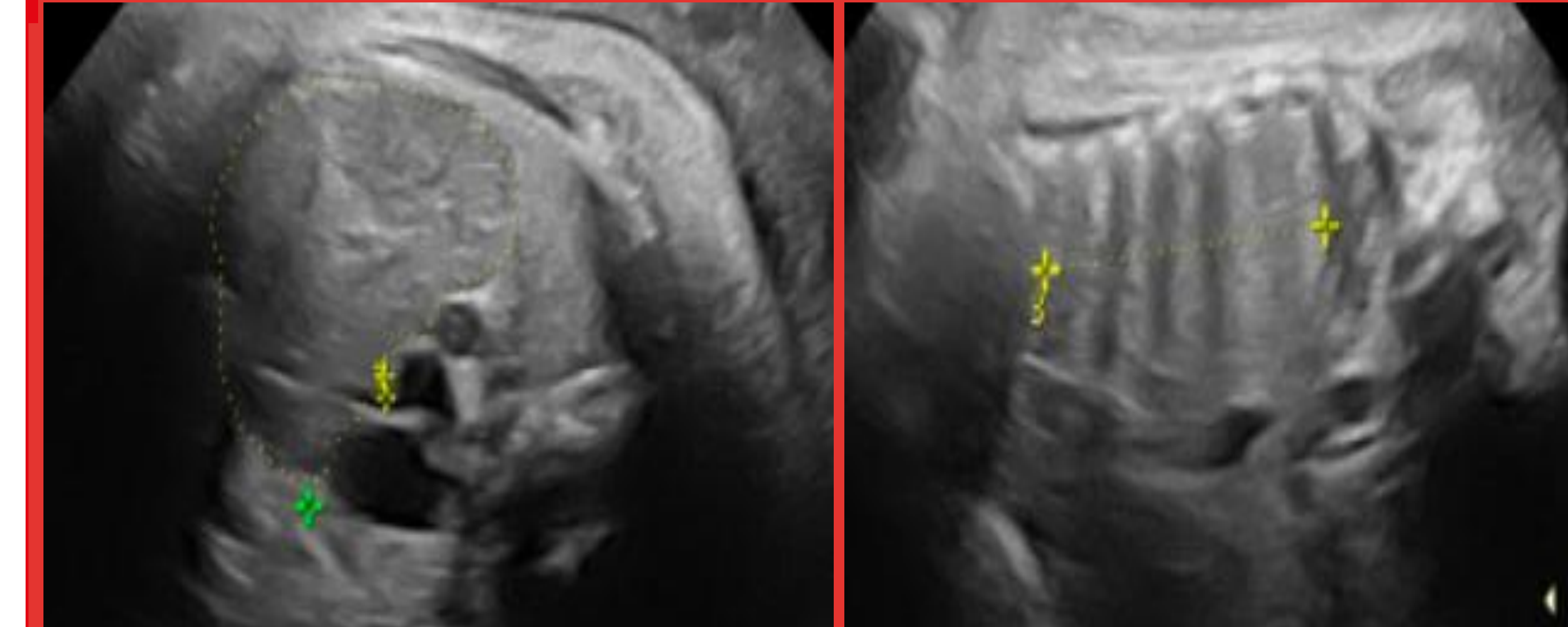
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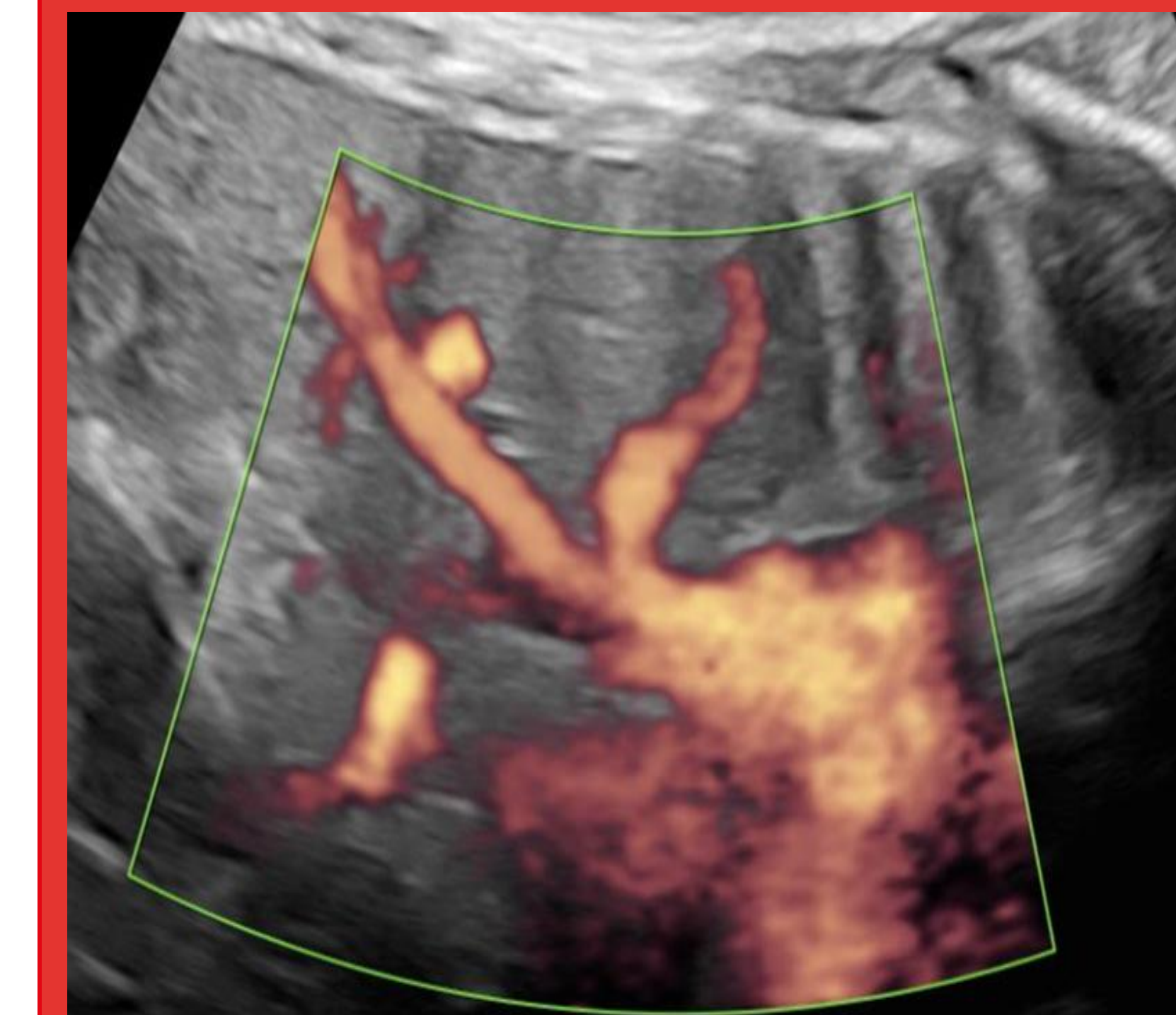
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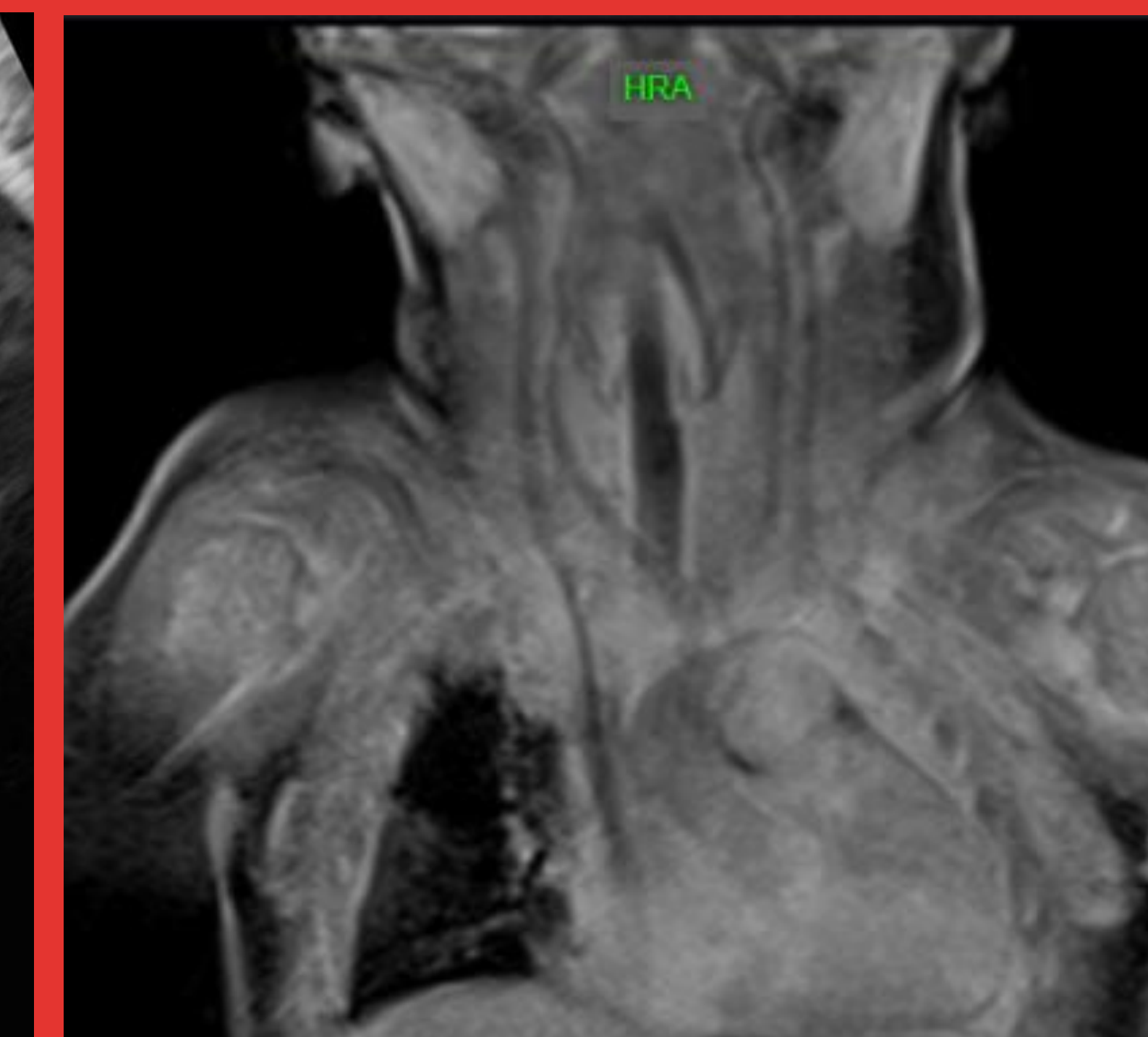


Thoracic mass (axial view)

Thoracic mass (sagittal view)



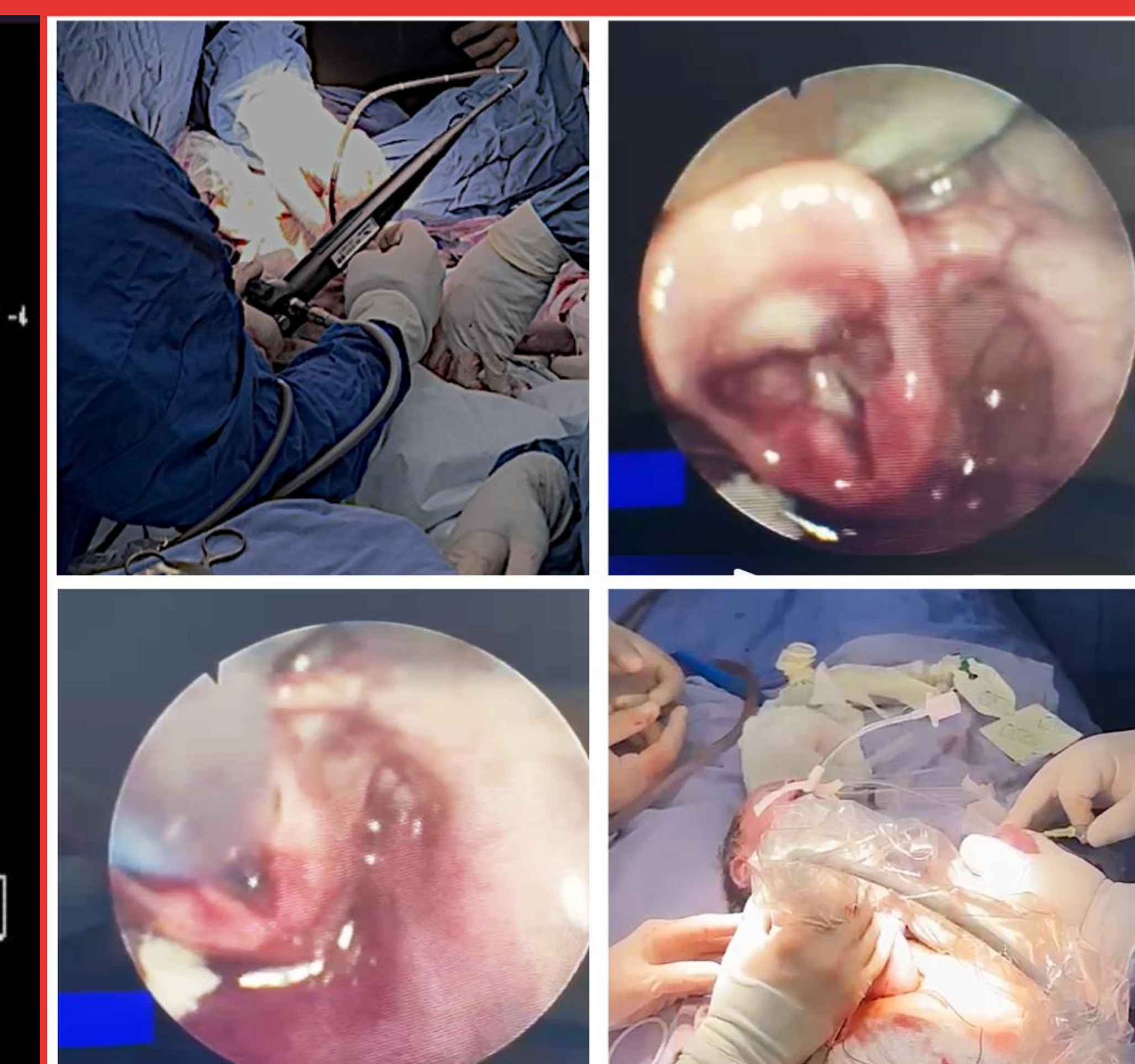
Thoracic mass vascularization



Neonatal mediastinum (MRI)



Neonatal thoracic vascularization (MRI)



EXIT – FETAL (Fetus Establish Tracheal Access for Lifeguard)