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Incidental Diagnosis of Dual Arterial Supply of the Right Lower Lobe

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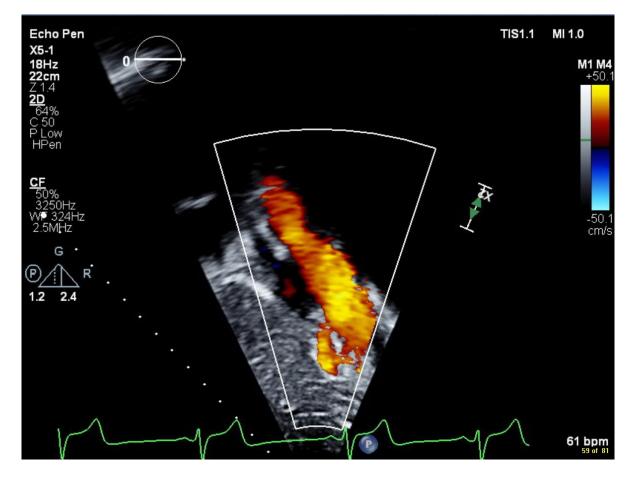
INTRODUCTION

15 year old male with a 2 week history of fever and abdominal pain had an abdominal/pelvic MRI demonstrating osteomyelitis of the right hip. Incidentally, an anomalous vessel arising from the abdominal aorta and coursing to the vasculature of the lower right lung lobe was identified and he was referred to cardiology for further evaluation. He is an athlete with no history of cardiac or respiratory symptoms and his cardiac physical examination was within normal limits.

METHODS

 His echocardiogram was limited due to poor acoustic windows, resulting in inadequate evaluation of the anomalous vessel and pulmonary venous connections. There was no evidence of right heart dilation or dysfunction.





Sub Sagittal 2D of DAO Sub Sagittal Color of DAO

 A follow-up pelvic MRI (for evaluation of his osteomyelitis) was combined with a cardiac MRI, including an MRA with use of Gadavist

DISCUSSION

- Incidental MR imaging findings are not uncommon and further investigation and imaging work-up, as well as management should be individualized.
- Similar incidental findings, especially during work-up for hemoptysis are reported in the literature, and are often associated with lung sequestration.
- Ligation or embolization of the systemic feeding vessel to the lung is often performed due to risk of hemoptysis
- Conservative management with regular followup is another option. This is the approach for our patient, given the morphology of the feeding vessel in combination with normal lung appearance, grossly normal Qp:Qs, and lack of symptoms.

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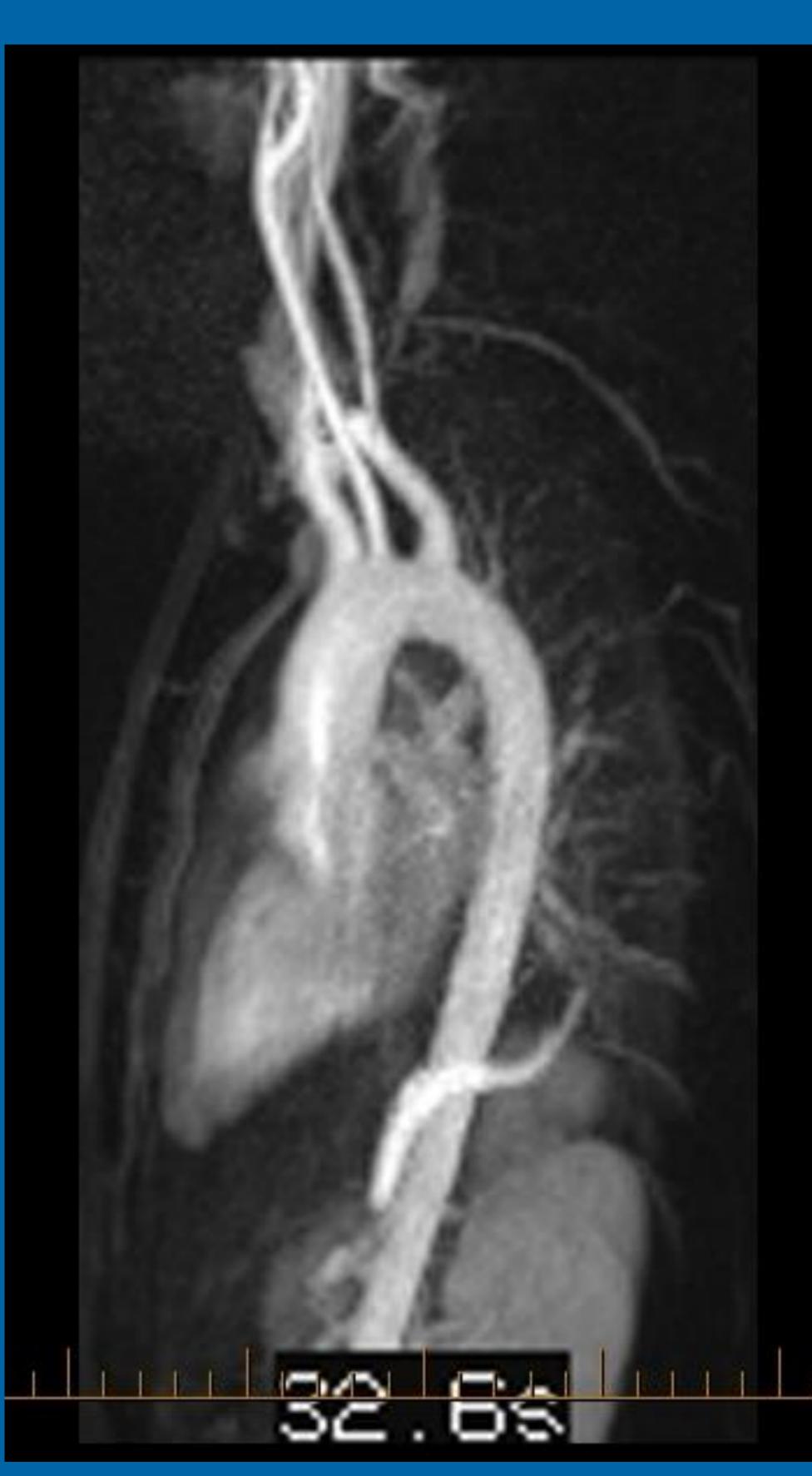
Incidental Diagnosis of Dual Arterial Supply of the Right Lower Lobe

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RESULTS





HEMODYNAMIC DATA	
RVEF	66.0%
RV EDV	94.6 mL/m ²
RV CI	4.1 L/min/m ²
LVEF	66.1%
LV EDV	91.0 mL/m ²
LV CI	3.9 L/min/m ²
Qp:Qs	1.05:1





