Incidental Diagnosis of Dual Arterial Supply of the Right Lower Lobe

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Jay Crockett
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Incidental Diagnosis of Dual Arterial Supply of the Right Lower Lobe
Christopher Mathis, MD Jay Crocket, DO and Maria Kiaffas, MD.
Children’s Mercy Kansas City

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.

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 follow-up 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.

REFERENCES

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• Jae Sung Son et al. Ped Cardiology 2008
• W Bruhlmann et al. Eur Radiol 1998

RESULTS

HEMODYNAMIC DATA

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<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>RVEF</td>
<td>66.0%</td>
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<tr>
<td>RV EDV</td>
<td>94.6 mL/m²</td>
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<td>RV CI</td>
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