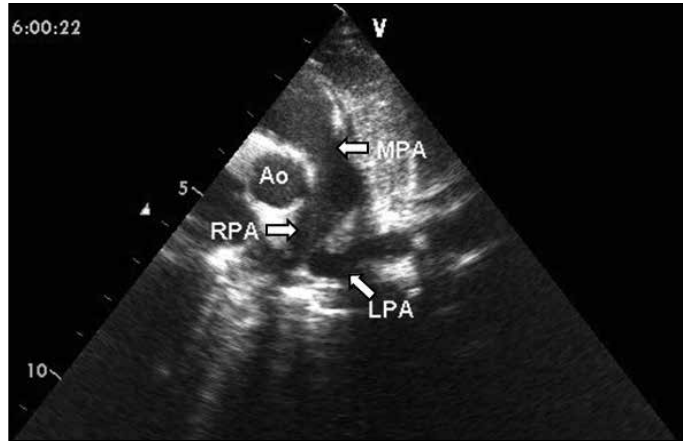


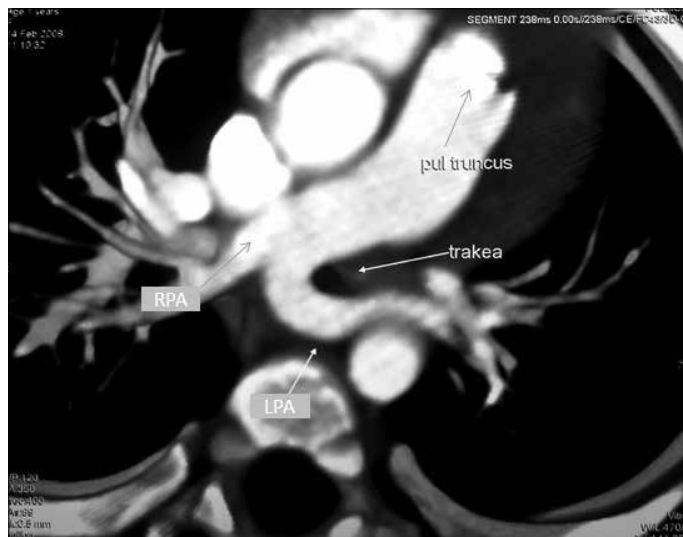
## Pulmonary artery sling and tracheal bronchus in an infant with severe respiratory distress

*Ciddi solunum sıkıntısı olan bir bebekte pulmoner arter slingi ve trakeal bronş*

A 19-month-old girl was admitted to our clinic with complaints of dyspnea and cough. Her medical history revealed that she had been hospitalized with a diagnosis of bronchiolitis and/or bronchopneumonia for five times during the last year. On physical examination her weight was 8 kg (<3<sup>rd</sup> percentile), height was 78 cm (10<sup>th</sup> percentile), she was tachypneic, tachycardic, and she had stridor, suprasternal retractions and coarse crackles over both hemithorax. Echocardiography revealed that the left pulmonary artery (LPA) was originating distal to its normal position, which was consistent with pulmonary artery sling (Fig. 1). Multislice computed tomography demonstrated that the LPA arose from the posterior aspect of the right pulmonary artery and encircled the trachea (Fig. 2). Also, right-upper-lobe bronchus was arising from the



**Figure 1. Transthoracic echocardiography, parasternal short axis view shows left pulmonary artery originating distal to its normal position**  
Ao - aorta, LPA - left pulmonary artery, MPA - main pulmonary artery, RPA - right pulmonary artery



**Figure 2. Multislice CT image shows the LPA originating from the posterior aspect of the RPA and encircling the trachea**  
CT- computed tomography, LPA- left pulmonary artery, RPA- right pulmonary artery

right lateral wall of the trachea above the carina (tracheal bronchus, Fig. 3). Because the sling structure was compressing the trachea and causing severe respiratory distress, she underwent left pulmonary arterioplasty operation. The patient's postoperative course was uneventful and all the respiratory symptoms resolved after the operation. Echocardiography indicated a mild stenosis of LPA which was causing 17 mmHg peak gradient at the level of anastomosis (Fig. 4).

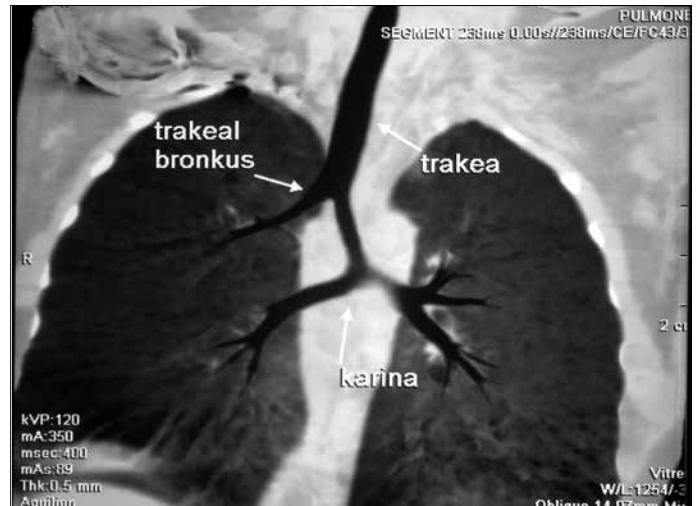
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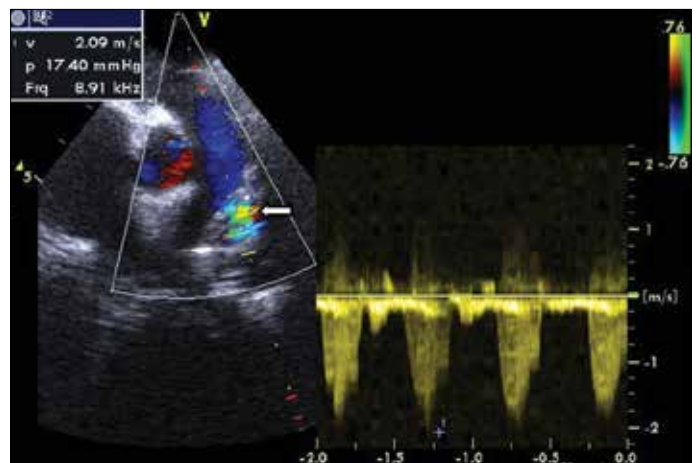
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**Figure 3. Multislice computed tomography image demonstrating right tracheal bronchus**



**Figure 4. Postoperative transthoracic echocardiographic parasternal short axis view shows mild left pulmonary artery stenosis at the level of anastomosis line (arrow)**