Differential cyanosis and clubbing: signs of an Era gone by

Despite declining prevalence of Eisenmenger Syndrome (ES) in the West, such patients are not uncommon in the developing world. Important clues to the level of shunt are provided by differential cyanosis and clubbing indicating a patent ductus arteriosus (PDA) or the degree of splitting of second heart sound. The reason for the differential cyanosis and clubbing is that due to the right-to-left shunt across the PDA, deoxygenated blood from the right ventricle is preferentially directed into the aorta distal to the left subclavian artery and into the lower extremities.

With PDA, ES and right-to-left shunt, an erroneous diagnosis of primary pulmonary hypertension may be made on echocardiography since no obvious septal defect is visualised. Contrast echocardiography using agitated saline, with opacification of abdominal aorta without opacification of left-sided chambers is helpful in such cases.

We describe a 38-year-old male with no known previous congenital heart disease who presented with exertional dyspnoea and haemoptysis since the last 5 years. Examination revealed obvious differential cyanosis and clubbing (figure 1), closely split second heart sound with right atrial and right ventricular dilatation, elevated right ventricular systolic pressure and severe pulmonary artery hypertension on echocardiography (figure 2). Contrast echocardiography findings (figure 3, supplementary video 1) revealed rapid opacification of descending aorta, clearly visualised in the subcostal view, establishing the diagnosis of PDA with ES.

Srivatsa Nadig, Aditya Kapoor, Sudeep Kumar
Department Of Cardiology, Sanjay Gandhi PGIMS, Lucknow, Uttar Pradesh, India
Correspondence to Dr Aditya Kapoor, Department of Cardiology, Sanjay Gandhi PGIMS, Lucknow, UP 226014, India; akapoor65@gmail.com

Competing interests None.
Patient consent Obtained.
Provenance and peer review Not commissioned; internally peer reviewed.

REFERENCE