Sinusal variant of truncus arteriosus is a rare preoperative diagnosis. Present case describes an unusual pulmonary arterial pattern in sinusal variant of truncus arteriosus, which, to the best of our knowledge, has not been reported so far in literature. Moreover, the case also highlights the importance of multidetector computed tomographic (CT) evaluation in accurate identification of such cases.

CT angiography images from a 20-year-old male patient with cyanosis showed presence of single arterial trunk supplying the pulmonary, systemic, and coronary circulations with single semilunar valve and large subtruncal ventricular septal defect. Pulmonary arteries were discontinuous with right pulmonary artery arising from the proximal ascending aorta and pulmonary artery segment from the right sinus close to the origin of right coronary artery (RCA), continuing as left pulmonary artery with significant stenoses along its course (Fig. 1 and 2). Coronary arteries were normal. No patent arterial duct, arch hypoplasia, or aortic interruption was seen.

The origin of pulmonary arteries in truncus arteriosus is inconstant and underlies various existing classifications (Collett and Edwards; Van Praagh and Van Praagh) and their limitations. Collett and Edwards type I (Van Praagh and Van Praagh type A1) is the most common type with origin of pulmonary artery above (>2mm) the sinotubular junction. Truncus arteriosus with sinusal origin of pulmonary artery segment is a rare preoperative diagnosis, limited to few case reports. However, its incidence is not that uncommon and nearly one-fifth of patients with truncus arteriosus may have either low (<2mm from the sinotubular junction) or sinusal origin of pulmonary arteries as shown by a study on the heart specimens. It assumes great importance considering proximity of the pulmonary artery segment to the right
venricular outflow tract that may allow direct anastomosis in selected cases. Moreover, three-fourth of the hearts with sinusal variant may show close proximity (<2mm) between the pulmonary and the coronary arteries (more commonly the left coronary artery), which warrants special attention to avoid injury during surgery.  

Multidetector CT evaluation allows detailed and accurate delineation of the anatomy and the pulmonary arterial pattern along with delineation of the associated anomalies and the status of the coronary arteries, thereby helping in mapping the optimal management strategy.\textsuperscript{4,5} To the best of our knowledge, present pulmonary arterial pattern in truncus arteriosus with discontinuous pulmonary arteries and origin of pulmonary artery segment from the right anterior sinus, close to the right coronary artery, has not been reported in literature so far. Early accurate identification along with variability in the pulmonary and coronary arterial origins is important as they have obvious therapeutic implications.

Funding
None.

Conflict of Interest
None declared.

References
5 Kumar P, Bhatia M. Role of CT in the pre- and postoperative assessment of conotruncal anomalies. Radiol Cardiothorac Imaging 2022;4(03):e210089