The study aimed to evaluate the prevalence of associated cardiac and extracardiac conditions with PLSVC detected in fetal echocardiography.

Aortic valve and aortic arch anomalies represented 20% of all cardiac diagnoses. Various types of abdomen anomalies, polyhydramnios, IUGR and a single umbilical artery were the most common extracardiac conditions.

We concluded that the diagnosis of PLSVC is not always a benign finding, but it may coexist with significant cardiac and extracardiac anomalies. Therefore, an accurate fetal ultrasound should be performed in cases with PLSVC to search for cardiac and extracardiac anomalies and further follow up is necessary to provide the best prenatal counseling and management after birth.