Right Ventricular Function in Systemic Sclerosis-associated Pulmonary Arterial Hypertension

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To the Editor:

We read with interest the article “Tricuspid annular plane systolic excursion is a robust outcome measure in systemic sclerosis-associated pulmonary arterial hypertension” by Mathai, et al. This excellent article describes the current need for a more detailed investigation of the right ventricle (RV). The authors clearly state that there is a need for a detailed evaluation of RV function measurements, e.g., the tricuspid annular plane systolic excursion (TAPSE), in a population with systemic sclerosis-associated pulmonary arterial hypertension (SSc-PAH).

Forfia, et al have also described the excellent sensitivity, reproducibility, and clinical utility of the TAPSE in various forms of PAH. For the convenience of readers and especially for centers performing detailed echocardiographic investigations of the RV, we add that our group has published normal TAPSE values for pediatric and adolescent patients. In addition, we have described decreased TAPSE values for pediatric patients with PAH secondary to congenital heart diseases (PAH-CHD). We thank the authors for addressing the need for careful and systematic evaluation of the RV, especially in patients with different forms of PAH.

RV function should be carefully investigated in patients with systemic diseases known to influence the RV function and diseases that can lead to secondary PAH, including many rheumatologic disorders. RV function should also be investigated in patients with CHD and primary PAH. We hope that with more available normal reference values for this population that quantification of RV function in PAH will become easily available to all sonographers.

REFERENCES