

## LETTER TO THE EDITOR

## Two Different Presentations of Sinus of Valsalva Aneurysm

Dear Editor,

We read with interest the article by Patel et al. about 2 patients with sinus of Valsalva aneurysm (SVA).<sup>1</sup> We would like to share our findings on SVA.

While the reported incidence of SVA is usually around 0.09% in the general population, it ranged from 0.1% to 3.5% in several other studies.<sup>2,3</sup> We retrospectively evaluated the coronary computed tomography (CT) angiography images of 1218 consecutive patients (756 males and 462 females, age range; 17–86 years, mean age;  $55.1 \pm 14.3$  years) who underwent coronary CT angiography in our department. SVA was detected in 23 (0.02%) of these 1218 patients. Among the 23 patients with SVA, 18 were males and 5 were females. SVA was detected on the right side in 21 patients (91.3%) and on the left side in only 2 patients (8.7%). SVA of the noncoronary sinus was not observed.

We would also like to share our results with respect to the dimensions of the normal sinus of Valsalva. All measurements were performed during the diastolic phase of the cardiac cycle and from the largest part of the aortic root. We found

the mean diameter of a sinus of Valsalva was 33.8 mm (diameter range 26.2–39.7 mm) in males and 31.2 mm (diameter range 25.1–35.8 mm) in females. We observed that in cases of normal sinus of Valsalva, the right sinus is slightly larger than the other sinuses. However, this difference was not statistically significant ( $P > 0.05$ ).

Muzaffer Saglam, M.D.,\* Ersin Ozturk, M.D.,\*  
Mehmet Ak, M.D.,† Kemal Kara, M.D.,\* and  
Hakan Mutlu, M.D.,\*

\*Department of Radiology, GATA Haydarpasa  
Training Hospital, Uskudar, Istanbul, Turkey

†Department of Radiology, Maresal Cakmak  
Military Hospital, Erzurum, Turkey

### References

1. Patel N, Rousan TA, Peyton MD, et al: Two different presentations of sinus of Valsalva aneurysm. *Echocardiography* 2014;31:E181–E184.
2. Dong C, Wu Q-Yu, Tang Y: Ruptured sinus of Valsalva aneurysm: A Beijing experience. *Ann Thorac Surg* 2002;74:1621–1624.
3. Bricker AO, Avutu B, Mohammed TL, et al: Valsalva sinus aneurysms: Findings at CT and MR imaging. *Radiographics* 2010;30:99–110.