What is this image? 2020: Image 4 result

Multimodal imaging in the diagnosis of infective endocarditis complicated with embolic acute myocardial infarction

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We did something we have not done before! The 2020- Image 4 was the same image as 2019- Image 1 shown in the April issue of 2019. In the June issue of 2019,¹ we published the results as follows: There were 48 responses of which 17 (35%) were correct/near correct. By draw, the winner is: Rodrigo Cardenas-Perilla, MD from Centro Medico Imbanaco, Colombia. Dr. Cardenas-Perilla's interpretation was "Aortic valve endocarditis". Other (incorrect) responses included: Sarcoid, amyloid, lymphoma, myocarditis, hypertrophic cardiomyopathy, TAVR, thrombus, metal prosthesis, calcification, colon cancer and artifacts. Sarcoid was the answer by many!

We would like to indicate that AJ Casas, MD (the first author of the paper) identified the pattern and wrote to us not knowing that we intentionally inserted the same image because it is so unique. Also, Anna Blach, MD from Poland correctly identifies the pattern that it was previously reported. We thank Drs. Casas and Blach, the responders to the 2019 Image 1 and to the 2020- Image 4.

How likely is it that we would do a similar experiment in the future? Very unlikely, not that the other images are not unique, but one time is a charm, more than that is not!

FEATURE RESULTS

For 2020 Image 4, there were 58 responses of which 26 (45%) were correct/near correct (more than before!). By draw, the winner was Venkata Subramanian Krishnaraju, MD from PGIMER, Chandigarh, Chandigarh, India. The said response was: FDG PET/CT showing infective endocarditis with vegetations along the valve. FDG uptake in the LV myocardium near the apex probably due to acute myocardial infarction from a septic embolus.

Other (incorrect) responses included cardiac sarcoidosis (majority), amyloidosis, testicular cancer, apical hypertrophic cardiomyopathy, Loeffler's endocarditis and Takotsubo cardiomyopathy.

References

1. Casas EA, Núñez VP, Pasin MD et al (2019) What is this image? 2019: Image 1 result. J Nucl Cardiol 26:1057-60. <https://doi.org/10.1007/s12350-019-01768-y>

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