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Systemic Artery Aneurysms and Kawasaki Disease

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Abstract

BACKGROUND: Coronary artery aneurysms (CAAs) are a well-known complication of Kawasaki disease (KD), but there are no data on incidence or outcomes of systemic artery aneurysms (SAAs) in the current era.

METHODS: From April 1, 2016, to March 31, 2019, we screened for SAAs in 162 patients with KD at risk for SAAs with magnetic resonance angiography or peripheral angiography and analyzed incidence and early outcomes of SAAs.

RESULTS: Twenty-three patients had SAAs, demonstrating an incidence of 14.2% (23 of 162) in patients who were screened at 1 month after onset. The proportion of patients with SAAs was estimated to be 2% (23 of 1148) of all patients with KD. The median age at onset of KD with SAAs was 5 months. All patients with SAAs had CAAs, with z scores >8. Of patients with giant CAAs, 38.6% (17 of 44) had SAAs. A total of 129 SAAs occurred in 17 different named arteries. The most common sites for SAAs were the axillary (18.6%), common iliac (12.4%), and brachial (11.6%) arteries. During a median follow-up time of 6 months, 92.9% (79 of 85) of SAAs had some degree of regression, with 80% (68 of 85) of SAAs returning to normal. The overall regression rate was higher for medium to large SAAs than for medium to giant CAAs.

CONCLUSIONS: Although the incidence of SAAs may not be as dramatically reduced as we expected compared with previous data, SAAs have a high regression rate during short-term follow-up.

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