

Acute graft occlusion of abdominal aorta after anaphylaxis

Satoshi Watanuki,¹ Kensuke Kinoshita,² Yasuharu Tokuda³

¹Tokyo Metropolitan Tama Medical Center, Fuchu-shi, Tokyo, Japan

²Department of General Internal Medicine, Mito Kyodo General Hospital, Tsukuba University Hospital Mito Area Medical Education Center, Mito, Ibaraki, Japan

³Department of General Internal Medicine, Tsukuba University, Mito, Ibaraki, Japan

Correspondence to

Professor Yasuharu Tokuda, yasuharu.tokuda@gmail.com

Accepted 9 March 2014

DESCRIPTION

A 53-year-old man with hypertrophic cardiomyopathy and a previous graft replacement surgery for Leriche syndrome presented with a 3 h history of generalised severe pruritus and vomiting which he developed soon after eating fried shrimp and rice. The patient had no known history of drug or food allergy. His blood pressure was 120/78 mm Hg, the pulse was 120 bpm and the rest of the vital signs were normal. He had no skin eruptions. All other physical examination findings were unremarkable. A diagnosis of anaphylaxis by food allergy was made. His pruritus improved after the administration of antihistamine H1 blocker. In the observation unit, he developed a sudden onset of severe bilateral leg pains 3 h after admission to the emergency department. On physical examination, the pulses of the femoral, popliteal, dorsalis pedis and

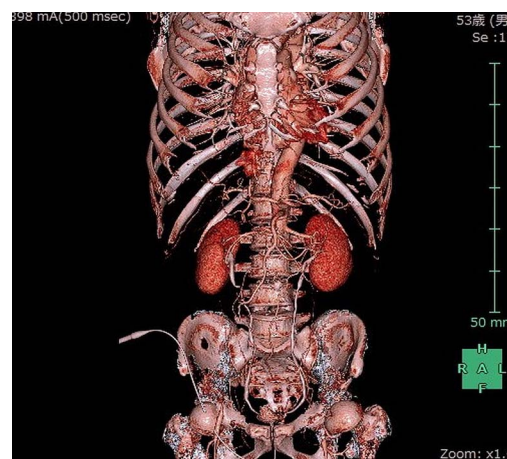


Figure 2 Three-dimensional CT reconstruction image.

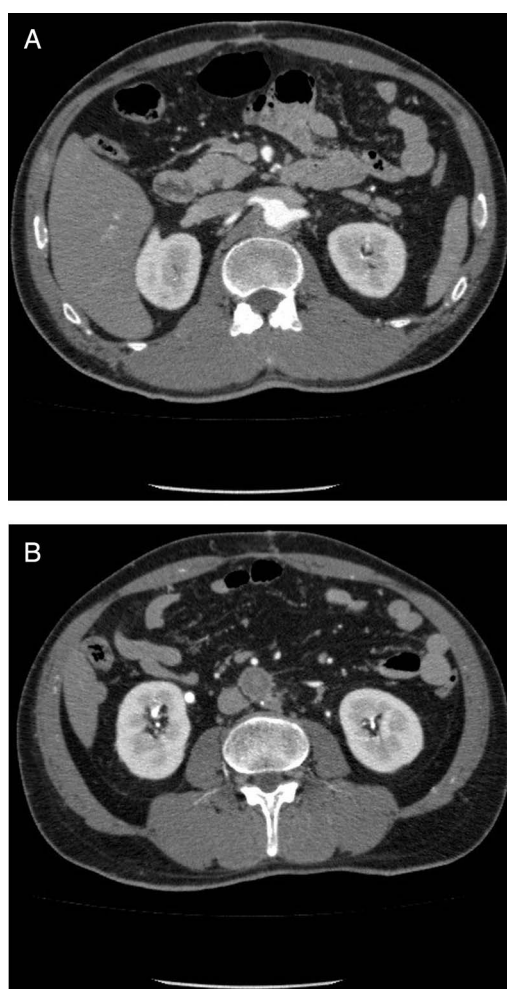


Figure 1 Contrast CT of the abdomen (A, level of renal arteries and B, infrarenal level).

tibialis posterior arteries were not palpable bilaterally. CT scan with contrast material showed that although the abdominal aorta was patent at the level of the renal arteries (figure 1A), it was completely occluded at the infrarenal level (figures 1B and 2). Immediate surgery of a new graft replacement was conducted and his postoperative course was uneventful. Acute myocardial infarction following anaphylaxis is rare but has been reported previously.¹ Its exact pathogenetic mechanism remains unclear, but a thrombotic occlusion induced by mast cell-derived mediators was proposed as a possible cause.² Acute aortic occlusion after anaphylaxis has never been reported before our case and this should be included into novel complications of anaphylaxis.

Learning points

- ▶ Acute aortic occlusion after anaphylaxis has never been reported.
- ▶ Acute aortic occlusion should be included into novel complications after anaphylaxis.
- ▶ The possible pathogenesis might be involved with mast cell-derived mediators.

Contributors SW, KK and YT attended to the patient and wrote the manuscript.

Competing interests None.

Patient consent Obtained.

Provenance and peer review Not commissioned; externally peer reviewed.



To cite: Watanuki S, Kinoshita K, Tokuda Y. *BMJ Case Rep* Published online: [please include Day Month Year] doi:10.1136/bcr-2014-203859

REFERENCES

- 1 Gikas A, Lazaros G, Kontou-Fili K. Acute ST-segment elevation myocardial infarction after amoxicillin-induced anaphylactic shock in a young adult with normal coronary arteries: a case report. *BMC Cardiovasc Disord* 2005;5:6.
- 2 Laine P, Kaartinen M, Penttilä A, *et al.* Association between myocardial infarction and the mast cells in the adventitia of the infarct-related coronary artery. *Circulation* 1999;99:361–9.

Copyright 2014 BMJ Publishing Group. All rights reserved. For permission to reuse any of this content visit <http://group.bmj.com/group/rights-licensing/permissions>.
BMJ Case Report Fellows may re-use this article for personal use and teaching without any further permission.

Become a Fellow of BMJ Case Reports today and you can:

- Submit as many cases as you like
- Enjoy fast sympathetic peer review and rapid publication of accepted articles
- Access all the published articles
- Re-use any of the published material for personal use and teaching without further permission

For information on Institutional Fellowships contact consortiasales@bmjgroup.com

Visit casereports.bmj.com for more articles like this and to become a Fellow