

## Ultrasonographic Images of Takayasu's Arteritis

Yoshihisa Matsumura, MD; Keisuke Morimoto, MD; Mitsuko Ishikawa, MT;  
Hiroaki Kitaoka, MD; Yoshinori L. Doi, MD, PhD

A 41-year-old woman was first admitted in August 1992 because of a persistent fever of 102.2°F and chest pain. Her sedimentation rate was 91 mm in the first hour, and C-reactive protein was 9.0 mg/dL. Angiography at that time showed occlusion of the left upper pulmonary artery (Figure, A) and normal bilateral common carotid and vertebral arteries (B). A diagnosis of Takayasu's arteritis in the acute stage was made. Her condition improved rapidly after the initiation of prednisolone 30 mg/d.

In March 1996, the patient developed bilateral neck tenderness associated with elevated  $\gamma$ -globulin and leukocytosis. Diffuse circumferential thickening of the intima-media complex was found in bilateral proximal common carotid arteries

by B-mode ultrasonographic study, resulting in long segmental narrowing of the lumen (2.6 mm in luminal diameter) (C and D) that was also shown by angiography (E). She was once again put on prednisolone 30 mg/d, and her bilateral neck tenderness gradually resolved. Reduction in thickness of the intima-media complex was noted after steroid therapy for 2 months (3.2 mm in luminal diameter) (F).

This ultrasonographic demonstration of the inflammatory process of the intima-media complex is consistent with the pathological observation of inflammatory changes seen mainly in the media associated with secondary intimal thickening and may be useful in the diagnosis of Takayasu's arteritis.

---

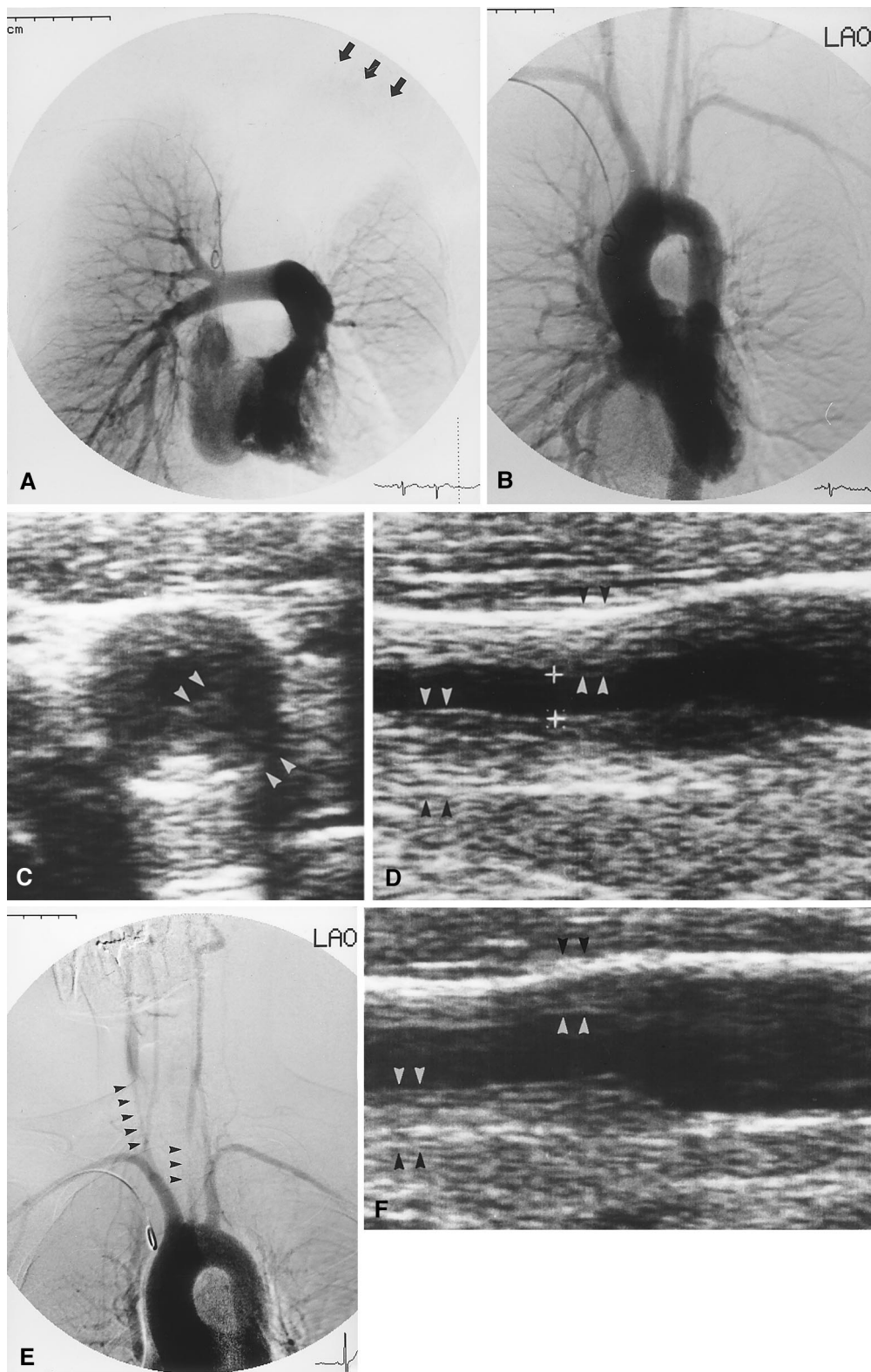
From the Department of Medicine and Geriatrics and the Clinical Laboratory Department (M.I.), Kochi Medical School, Japan.

Correspondence to Yoshinori Doi, MD, PhD, Department of Medicine and Geriatrics, Kochi Medical School, Oko-cho, Nankoku-shi, Kochi 783, Japan. The editor of Images in Cardiovascular Medicine is Hugh A. McAllister, Jr, MD, Chief, Department of Pathology, St Luke's Episcopal Hospital and Texas Heart Institute, and Clinical Professor of Pathology, University of Texas Medical School and Baylor College of Medicine.

*Circulation* encourages readers to submit cardiovascular images to Dr Hugh A. McAllister, Jr, St Luke's Episcopal Hospital and Texas Heart Institute, 6720 Bertner Ave, MC1-267, Houston, TX 77030.

(*Circulation*. 1998;98:1585-1586.)

© 1998 American Heart Association, Inc.



## Ultrasonographic Images of Takayasu's Arteritis

Yoshihisa Matsumura, Keisuke Morimoto, Mitsuko Ishikawa, Hiroaki Kitaoka and Yoshinori L. Doi

*Circulation*. 1998;98:1585-1586

doi: 10.1161/01.CIR.98.15.1585

*Circulation* is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231

Copyright © 1998 American Heart Association, Inc. All rights reserved.

Print ISSN: 0009-7322. Online ISSN: 1524-4539

The online version of this article, along with updated information and services, is located on the World Wide Web at:

<http://circ.ahajournals.org/content/98/15/1585>

**Permissions:** Requests for permissions to reproduce figures, tables, or portions of articles originally published in *Circulation* can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the [Permissions and Rights Question and Answer](#) document.

**Reprints:** Information about reprints can be found online at:  
<http://www.lww.com/reprints>

**Subscriptions:** Information about subscribing to *Circulation* is online at:  
<http://circ.ahajournals.org/subscriptions/>