Shining Light and Illuminating Murine Atherosclerosis via Optical Coherence Tomography

Farouc A. Jaffer

The overall results therefore demonstrate that intravascular OCT offers a high-resolution approach to quantify murine atheroma and macrophages, with potential clinical translatability. Limitations, as acknowledged by the authors, include the yet-to-be demonstrated survival capability of this approach; nonetheless even one-time OCT can likely better assess macrophage volume compared to interval histological sections. Assessment of macrophage content deeper than 100 micrometers remains to be evaluated. In addition, it is unclear whether the developed methodology will be accurate in the setting of plaque calcification, which generates a high normalized standard deviation parameter.11

Sources of Funding
NIH R01 HL 108229-01A1, Howard Hughes Medical Institute Career Development Award, and American Heart Association Scientist Development Grant #0830352N.

Disclosures
None.

References
Shining Light and Illuminating Murine Atherosclerosis via Optical Coherence Tomography
Farouc A. Jaffer

doi: 10.1161/ATVBAHA.112.246439
Arteriosclerosis, Thrombosis, and Vascular Biology is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231
Copyright © 2012 American Heart Association, Inc. All rights reserved.
Print ISSN: 1079-5642. Online ISSN: 1524-4636

The online version of this article, along with updated information and services, is located on the World Wide Web at:
http://atvb.ahajournals.org/content/32/5/1068

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in Arteriosclerosis, Thrombosis, and Vascular Biology 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 Arteriosclerosis, Thrombosis, and Vascular Biology is online at:
http://atvb.ahajournals.org//subscriptions/