Response to Implementation of Rapid Cortisol During Adrenal Vein Sampling

We thank Hayden et al for sharing their experience and for supporting our consensus statement.1 Intraprocedural cortisol assay is 1 approach to improve the success rate for adrenal vein sampling, particularly while radiologists are gaining experience with the procedure. Several centers have adopted this practice successfully, but logistic problems have prevented its widespread use.2,3

Better biomarkers of selectivity and quicker assays are still desirable for guiding adrenal vein sampling. For example, plasma metanephrine shows a greater selectivity index than cortisol.4 Tandem mass spectrometry assays, when sample preparation from plasma is automated and instrumentation is already calibrated, can yield results in minutes.5

As the methodology to expedite confirmation of catheter placement evolves, economic and practical factors will influence the application of these technologies to the adrenal vein sampling procedure. Nevertheless, we encourage and applaud all efforts to provide reliable adrenal vein sampling results to more patients with primary aldosteronism.

Disclosures

None.

Richard J. Auchus
Division of Metabolism, Endocrinology, and Diabetes
Department of Internal Medicine
University of Michigan
Ann Arbor

Morris Brown
Clinical Pharmacology Unit
Department of Medicine
University of Cambridge
Cambridge, United Kingdom

Jacques W.M. Lenders
Department of Internal Medicine
Radboud University Nijmegen Medical Centre
Nijmegen, The Netherlands

Mitsuhide Naruse
Department of Endocrinology, Metabolism, and Hypertension
National Hospital Organization Kyoto Medical Center
Kyoto, Japan

Pierre François Plouin
Hypertension Unit
Hôpital Européen G. Pompidou
Paris, France

Fumitoshi Satoh
Division of Nephrology, Endocrinology, and Vascular Medicine
Tohoku University Hospital
Sendai, Japan

William F. Young Jr
Division of Endocrinology, Diabetes, Metabolism, and Nutrition
Mayo Clinic
Mayo Clinic College of Medicine
Rochester, MN

Gian Paolo Rossi
Department of Medicine–DIMED
Internal Medicine 4
University of Padova
Padova, Italy


Response to Implementation of Rapid Cortisol During Adrenal Vein Sampling
Richard J. Auchus, Morris Brown, Jacques W.M. Lenders, Mitsuhide Naruse, Pierre Francois Plouin, Fumitoshi Satoh, William F. Young, Jr and Gian Paolo Rossi

Hypertension. 2014;63:e89; originally published online February 24, 2014;
doi: 10.1161/HYPERTENSIONAHA.114.03091
Hypertension is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231
Copyright © 2014 American Heart Association, Inc. All rights reserved.
Print ISSN: 0194-911X. Online ISSN: 1524-4563

The online version of this article, along with updated information and services, is located on the World Wide Web at:
http://hyper.ahajournals.org/content/63/4/e89

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in Hypertension 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 Hypertension is online at:
http://hyper.ahajournals.org/subscriptions/