Response to Letter Regarding Article, “Damage to the Left Precentral Gyrus Is Associated With Apraxia of Speech in Acute Stroke”

We appreciate the letter by Terao et al.1 on our recent publication.

The posterior wall of the precentral gyrus corresponds to the primary motor cortex or Brodmann’s area 4 at its mid to dorsal parts and to the premotor cortex or Brodmann’s area 6 at its ventral part. The region associated with apraxia of speech in our study, which is located at the middle part of the precentral gyrus, presumably corresponds to the primary motor cortex. As Terao et al. pointed out, the functional asymmetry of the motor cortices is an intriguing research theme. Although the role of right hemisphere structures in speech production was not directly investigated in our study, the accumulated evidence in clinical neurology clearly indicates that apraxia of speech arises from the dominant hemisphere damage in people with typical functional lateralization of the brain. Crossed apraxia of speech is a rare symptom.2 Future lesion-symptom mapping studies on a variety of oro-facial motor disorders, including bucco-facial apraxia, Foix–Chavany–Marie syndrome, and dysphagia, may provide important insights on this issue.

Disclosures
Dr. Itabashi received honoraria for oral presentations from Otsuka Pharmaceutical, AstraZeneca, Bayer, Bristol-Myers Squibb, and Japanese Physical Therapy Association. Dr. Nishio received honoraria for oral presentations from Eisai. Dr. Matsuda reported no disclosure.

Ryo Itabashi, MD
Department of Stroke Neurology
Kohnan Hospital
Sendai, Japan

Yoshiyuki Nishio, MD, PhD
Minoru Matsuda, MD, PhD
Department of Behavioral Neurology and Cognitive Neuroscience
Tohoku University Graduate School of Medicine
Sendai, Japan


Response to Letter Regarding Article, "Damage to the Left Precentral Gyrus Is Associated With Apraxia of Speech in Acute Stroke"
Ryo Itabashi, Yoshiyuki Nishio and Minoru Matsuda

Stroke. 2016;47:e75; originally published online March 10, 2016;
doi: 10.1161/STROKEAHA.116.012886

Stroke is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231
Copyright © 2016 American Heart Association, Inc. All rights reserved.
Print ISSN: 0039-2499. Online ISSN: 1524-4628

The online version of this article, along with updated information and services, is located on the
World Wide Web at:
http://stroke.ahajournals.org/content/47/4/e75

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