Editors’ Note: In response to the paradoxes in the study “Do-not-resuscitate orders, quality of care, and outcomes in veterans with acute ischemic stroke” pointed out by Dr. Bernat, Dr. Reeves et al. question the uniformity of care in the Veterans Health Administration (VHA). Referencing the NeuroImage by Dr. Scully et al., Dr. Nandigam explains and discusses different enhanced susceptibility imaging (ESI) techniques and how licensing and patent issues force different MRI vendors to modify, slightly, a particular sequence technique to avoid infringement. Dr. Scully et al. agree and stress that ESI should replace T2*-gradient echo sequence (GRE).

Chafic Karam, MD, and Robert C. Griggs, MD

DO-NOT-RESUSCITATE ORDERS, QUALITY OF CARE, AND OUTCOMES IN VETERANS WITH ACUTE ISCHEMIC STROKE

James L. Bernat, Lebanon, NH: Reeves et al.1 showed that the presence of a do-not-resuscitate (DNR) order in patients with ischemic stroke within Department of Veterans Affairs (DVA) hospitals did not affect most of their surrogate quality indicators. I agree with the authors’ interpretation that the DVA physicians used DNR orders appropriately and, unlike some physicians, did not misinterpret them as orders to limit therapy. The reasons for the authors’ findings are worthy of consideration. The standardization of clinical practices within the DVA health system—a top-down, closed, health maintenance organization model, uniformly regulated health care system—may account for the consistency of surrogate quality indicators in the hospitalized patients. But if standardization of practice is the explanation, why is there still such a vast difference in rates of DNR orders for ischemic stroke patients among DVA hospitals? And why are there global deficiencies in other stroke care surrogate quality indicators such as dysphagia screening and stroke education? I conclude that the extent of standardization of best stroke care practices within DVA hospitals is great enough to include the proper interpretation of DNR orders but not high enough to encompass all best practices for stroke care.

Author Response: Mathew J. Reeves, East Lansing, MI; Laura Myers, Linda Williams, Indianapolis; Michael Phipps, New Haven, CT; Dawn Bravata, Indianapolis: We thank Dr. Bernat for his interest in our report, and particularly for highlighting some of the paradoxes in our findings. DVA physicians were not inappropriately interpreting DNR orders to limit basic aspects of stroke care, which reflects positively on the VHA. However, we do not believe that this is because the VHA represents a top-down, uniform health care system. Before November 2011, the VHA had done little to create a system that promoted high-quality organized stroke care, and few standardized stroke care practices existed in 2007 when our reports were collected. This lack of standardization is also reflected in several care processes that fell short of acceptable benchmarks: thrombolysis treatment, dysphagia screening, NIH Stroke Scale documentation, and stroke education. Dr. Bernat correctly highlighted the need to better understand the substantial variability in documentation of DNR orders across Veterans Affairs facilities (range 0% to 79%). This level of variability is especially hard to understand given that an electronic DNR order was available throughout the VHA system. We are currently exploring the contributions of differences in case mix, case load, and other facility characteristics on this variability, and whether this had any bearing on quality of care and patient outcomes.

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SWAN MRI REVEALING MULTIPLE MICROHEMORRHAGES SECONDARY TO SEPTIC EMBOLI FROM MUCORMYCOSIS

Kaveer Nandigam, Amherst, NY: The NeuroImage by Scully et al.1 attempted to show that the new T2* susceptibility-weighted angiography (SWAN) MRI is more sensitive to show microbleeds not visualized on T2*-GRE. SWAN MRI may not be a familiar term to all neurologists. ESI techniques have recently gained
Do-not-resuscitate orders, quality of care, and outcomes in veterans with acute ischemic stroke
James L. Bernat, Mathew J. Reeves, Laura Myers, et al.

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