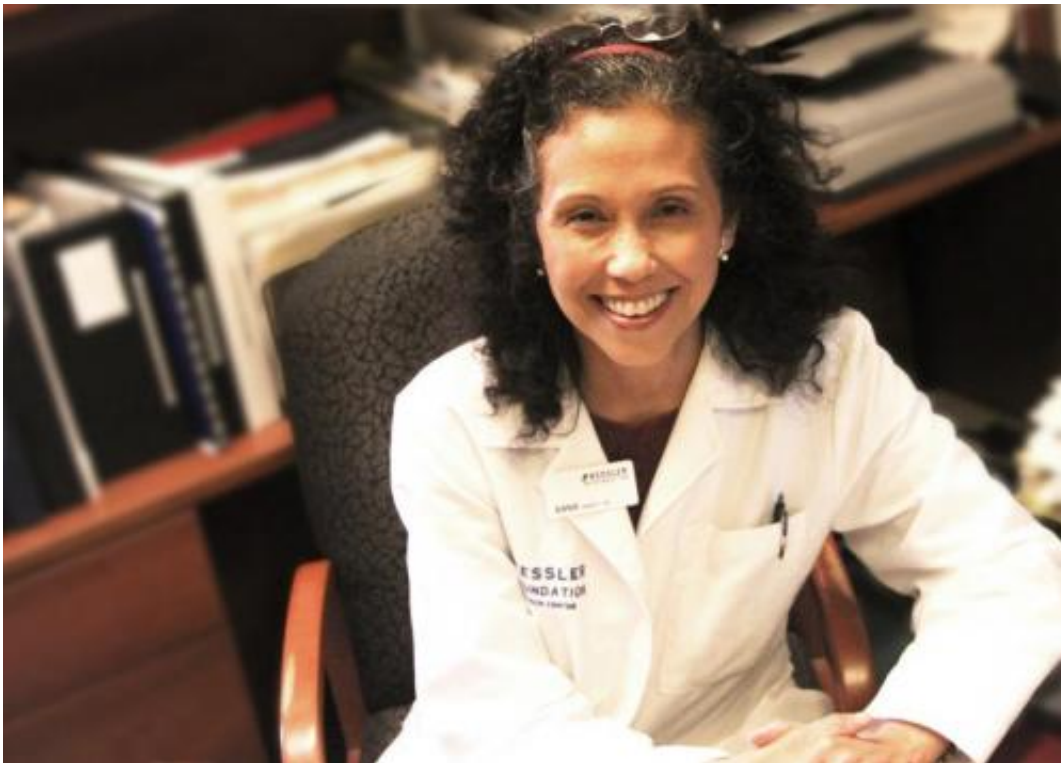


Stroke researchers explore implications of ipsilateral spatial neglect after stroke

October 3 2014



Dr. Barrett, director of Stroke Rehabilitation Research at Kessler Foundation, is a founder of the Network for Spatial Neglect, which promotes multidisciplinary research for this underdiagnosed hidden disability. Credit: Kessler Foundation

Stroke researchers have confirmed that damage to the right frontal-subcortical network may cause ipsilateral spatial neglect. Among individuals with ipsilateral neglect, a much greater proportion had frontal subcortical damage than anticipated by the investigators – 83% vs the

expected 27%.

A difference was also seen in spatial bias, ie, the type of spatial errors among this group tended to be 'where' (perceptual-attentional) rather than 'aiming' (motor-intentional) errors. Ipsilesional Neglect: Behavioral and Anatomical Correlates was published online ahead of print on September 1 by *Neuropsychology*.

The authors are Daniela L. Sacchetti and A.M. Barrett, MD, of Kessler Foundation, Kelly M. Goedert of Seton Hall University, and Anne L. Foundas of the University of Missouri.

The study was conducted in 12 patients with ipsilateral neglect. A computerized line-bisection task was used to evaluate spatial errors of 'where' and 'aiming'

"Little is known about ipsilateral neglect, which is much less common than contralesional neglect," noted Dr. Barrett. "Our findings confirm that of prior studies showing that these patients tend to have lesions of the frontal-subcortical network. An unexpected finding was the spatial bias toward 'where' errors in this group. We need further investigation to determine the differences in functional deficits between ipsilateral and contralateral neglect, and the clinical implications of those differences for rehabilitation interventions."

More information: [DOI: 10.1037/neu0000122](https://doi.org/10.1037/neu0000122)

Provided by Kessler Foundation

Citation: Stroke researchers explore implications of ipsilateral spatial neglect after stroke (2014, October 3) retrieved 23 April 2024 from <https://medicalxpress.com/news/2014-10-explore->

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