Cognitive reserve and cognitive performance of patients with focal frontal lesions

Sarah E. MacPherson, Colm Healy, Michael Allerhand, Barbara Spano, Carina Tudor-Sfetea, Mark White, Daniela Smirni, Tim Shallice, Edgar Chan, Marco Bozzali, Lisa Cipolotti

PII: S0028-3932(16)30466-3
DOI: http://dx.doi.org/10.1016/j.neuropsychologia.2016.12.028
Reference: NSY6219

To appear in: Neuropsychologia

Received date: 14 April 2016
Revised date: 22 December 2016
Accepted date: 28 December 2016

Cite this article as: Sarah E. MacPherson, Colm Healy, Michael Allerhand Barbara Spano, Carina Tudor-Sfetea, Mark White, Daniela Smirni, Tim Shallice Edgar Chan, Marco Bozzali and Lisa Cipolotti, Cognitive reserve and cognitive performance of patients with focal frontal lesions, Neuropsychologia, http://dx.doi.org/10.1016/j.neuropsychologia.2016.12.028

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.
Cognitive reserve and cognitive performance of patients with focal frontal lesions

Sarah E. MacPherson1,2, Colm Healy3, Michael Allerhand1,2, Barbara Spano4, Carina Tudor-Sfetea3, Mark White5, Daniela Smirni6, Tim Shallice7,8, Edgar Chan3, Marco Bozzali4, Lisa Cipolotti3,6

1Centre for Cognitive Ageing and Cognitive Epidemiology, University of Edinburgh, Edinburgh, UK
2Department of Psychology, University of Edinburgh, Edinburgh, UK
3Department of Neuropsychology, National Hospital for Neurology and Neurosurgery, London, UK
4Neuroimaging Laboratory, Santa Lucia Foundation, Rome, Italy
5Department of Neuroradiology, National Hospital for Neurology and Neurosurgery, London, UK
6Dipartimento di Scienze Psicologiche, Pedagogiche e della Formazione, Università degli Studi di Palermo, Palermo, Italy
7Institute of Cognitive Neuroscience, University College London, UK
8International School for Advanced Studies (SISSA-ISAS), Trieste, Italy
*Correspondence: Prof. Lisa Cipolotti Department of Neuropsychology National Hospital for Neurology and Neurosurgery Queen Square London WC1N 3BG. l.cipolotti@ucl.ac.uk

Abstract

The Cognitive reserve (CR) hypothesis was put forward to account for the variability in cognitive performance of patients with similar degrees of brain pathology. Compensatory neural activity within the frontal lobes has often been associated with CR. For the first time we investigated the independent effects of two CR proxies, education and NART IQ, on measures of executive function, fluid intelligence, speed of information processing, verbal short term memory (vSTM), naming, and perception in a sample of 86 patients with focal,
دریافت فوری متن کامل مقاله

امکان دانلود نسخه تمام متن مقالات انگلیسی
امکان دانلود نسخه ترجمه شده مقالات
پذیرش سفارش ترجمه تخصصی
امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
امکان دانلود رایگان ۲ صفحه اول هر مقاله
امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
دانلود فوری مقاله پس از پرداخت آنلاین
پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات