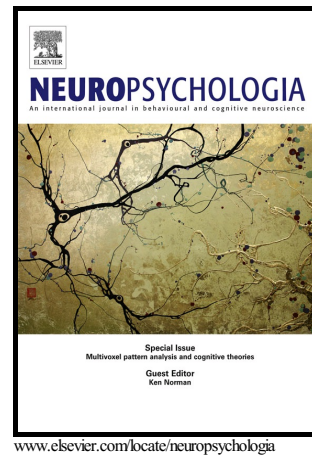


Author's Accepted Manuscript

Are Resting State Spectral Power Measures Related to Executive Functions in Healthy Young Adults?

Shirley Gordon, Doron Todder, Inbal Deutsch, Dror Garbi, Nir Getter, Nachshon Meiran



PII: S0028-3932(17)30407-4
DOI: <https://doi.org/10.1016/j.neuropsychologia.2017.10.031>
Reference: NSY6550

To appear in: *Neuropsychologia*

Received date: 8 April 2017
Revised date: 19 October 2017
Accepted date: 27 October 2017

Cite this article as: Shirley Gordon, Doron Todder, Inbal Deutsch, Dror Garbi, Nir Getter and Nachshon Meiran, Are Resting State Spectral Power Measures Related to Executive Functions in Healthy Young Adults?, *Neuropsychologia*, <https://doi.org/10.1016/j.neuropsychologia.2017.10.031>

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.

Are Resting State Spectral Power Measures Related to Executive Functions in Healthy Young Adults?

Shirley Gordon^{a,c*}, Doron Todder^b, Inbal Deutsch^c, Dror Garbi^{a,c}, Nir Getter^d, Nachshon Meiran^a

^aDepartment of Psychology and Zlotowski Center for Neuroscience, Ben-Gurion University of the Negev, Beer-Sheva, Israel.

^bMental Health Center, Beer Sheva, Ministry of Health, Beer-Sheva, Israel and Zlotowski Center for Neuroscience, Ben-Gurion University of the Negev, Beer-Sheva, Israel.

^cPsychology Branch, Chief Surgeon Headquarters, Israeli Air Force, Tel Hashomer, Ramat-Gan, IDF Medical Corps, Israel.

^dDepartment of Cognitive and Brain Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel.

*Correspondence: Department of Psychology and Zlotowski Center for Neuroscience

Ben-Gurion University of the Negev, Beer-Sheva, 84105, Israel, Shirley.gordon@gmail.com

Abstract:

Resting-state electroencephalogram (rsEEG) has been found to be associated with psychopathology, intelligence, problem solving, academic performance and is sometimes used as a supportive physiological indicator of enhancement in cognitive training interventions (e.g. neurofeedback, working memory training). In the current study, we measured rsEEG spectral power measures (relative power, between-band ratios and asymmetry) in one hundred sixty five young adults who were also tested on a battery of executive function (EF). We specifically focused on upper Alpha, Theta and Beta frequency bands given their putative role in EF. Our indices enabled finding correlations since they had decent-to-excellent internal and retest reliability and very little range restriction relative to a nation-wide representative large sample. Nonetheless, Bayesian

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ 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