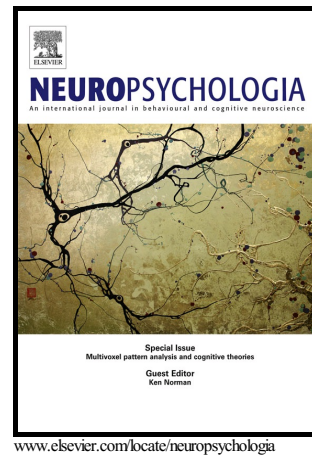


Author's Accepted Manuscript

The Life Stories of Adults with Amnesia: Insights into the Contribution of the MTL to the Higher-Order Organization of Autobiographical Memory

Matthew D. Grilli, Aubrey A. Wank, Mieke Verfaellie



PII: S0028-3932(17)30093-3
DOI: <http://dx.doi.org/10.1016/j.neuropsychologia.2017.03.013>
Reference: NSY6294

To appear in: *Neuropsychologia*

Received date: 23 November 2016
Revised date: 6 March 2017
Accepted date: 9 March 2017

Cite this article as: Matthew D. Grilli, Aubrey A. Wank and Mieke Verfaellie, The Life Stories of Adults with Amnesia: Insights into the Contribution of the MTL to the Higher-Order Organization of Autobiographical Memory. *Neuropsychologia*, <http://dx.doi.org/10.1016/j.neuropsychologia.2017.03.013>

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.

The Life Stories of Adults with Amnesia: Insights into the Contribution of the MTL to the Higher-Order Organization of Autobiographical Memory

Matthew D. Grilli^{1*}, Aubrey A. Wank¹, & Mieke Verfaellie²

¹ Department of Psychology, University of Arizona, Tucson, Arizona

² Memory Disorders Research Center, VA Boston Healthcare System and Boston University School of Medicine, Boston, Massachusetts

***Corresponding Author:** 1503 E. University Blvd. PO Box 210068. Tel.: 520-621-5705.

mdgrilli@email.arizona.edu

Abstract

Autobiographical memories are not stored in isolation but rather are organized into life chapters, higher-order knowledge structures that represent major themes conveying the arc of one's life. Neuropsychological studies have revealed that both episodic memory and some aspects of personal semantic memory are impaired in adults with medial temporal lobe (MTL) damage. However, whether such impairment compromises the retrieval and formation of life chapters is unknown. Therefore, we had 10 adults with MTL amnesia and 20 control participants narrate their life stories, and we extracted life chapters from these narratives using a novel scoring protocol. For the retrograde and anterograde time period separately, we evaluated the number of life chapters and assessed their quality, as indexed by measures of complexity and richness. Additionally, to investigate the idea that formation of life chapters occurs on a protracted time scale, we separated the amnesic participants into an early-life and a later-life onset subgroup.

Download English Version:

<https://daneshyari.com/en/article/7317919>

Download Persian Version:

<https://daneshyari.com/article/7317919>

[Daneshyari.com](https://daneshyari.com)