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# Inner Speech, Active Part of Working Memory Phonological Loop, Inactive in Dementia

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## Author(s)

Maryam Atabati, Nader Jahangiri, Naghmeh Mokhber

### **ABSTRACT**

This paper examines the role of inner speech in storage and retrieval of working memory phonological loop by conducting maintenance rehearsal test on eighteen elderly participants in two groups: a healthy group and a group with dementia. A Mann-Whitney U test was used to analyze the data. Through a comparison of the rehearsal manner of the two groups, it was concluded that the pattern of normal rehearsal of the healthy group was different from the pattern of patients suffering from dementia: also, the activity of working memory phonological loop in the healthy group was different from the lack of activity of working memory phonological loop in patients. That is, that subjects with dementia cannot use inner speech in the form of subvocal repetition was explained by applying the "Baddeley and Hitch" model of memory.

#### **KEYWORDS**

Inner Speech, Maintenance Rehearsal, Phonological Loop, Dementia

## Cite this paper

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## References

- [1] Baddeley, A. D., & Hitch, G. J. (1974). Working memory. In G. H. Bower (Ed.), The Psychology of Learning and Motivation, Vol. 8. London: Academic Press.
- [2] Baddeley, A. D. (2000). The episodic buffer: A new component of working memory? Trends in Cognitive Science, 4, 417-423. doi:10.1016/S1364-6613(00)01538-2
- [3] Baddeley, A. (2003). Working memory: Looking back and looking forward. Nature Reviews Neuroscience, 4, 829-839. doi:10.1038/nrn1201
- [4] Baddeley, A. D., & Dlarsen, J. (2007). The phonological loop: Some answers and some questions. The Quarterly Journal of Experimental Psychology, 60, 512-518. doi:10.1080/17470210601147663
- Brown, D. A. G. (2007). Brief reports amnesia, rehearsal and temporal distinctiveness models of [5] recall. 256-260. http://pbr.psychonomic-journals:content /14/2/256.abstract
- Hanley, R. (1997). Does articulatory suppression remove the irrelevant speech effect? Psychology [6] Press Memory, 5, 423-431.
- [7] Logie, R. H. (2003). Spatial and visual working memory-a mental workspace. Elsevier Science, 41-42.
- [8] Jacquemot, C., & Scott, K. S. (2006). What is the relation between phonological short-term memory and speech processing? http://www.sciencedirect.com, vol.10, 480-481.
- [9] Wilson, M. (1988). MCR psycholinguistics database: Machine usable dictionary, Version 2.00. behavior research methods.
- Toppino, T., & Pisegna, A. (2005). Articulatory suppression and the irrelevant speech effect in short-[10]

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- term memory: Does the locus of suppression matter? Psychonomic Bulletin & Review, 12, 374- 379. doi:10.3758/BF03196387
- [11] Camos, V., Mora, G., & Oberauer, K. (2010). Adaptive choice between articulatory rehearsal and attentional refreshing in verbal working memory. The Psychonomic Society, Springer.

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