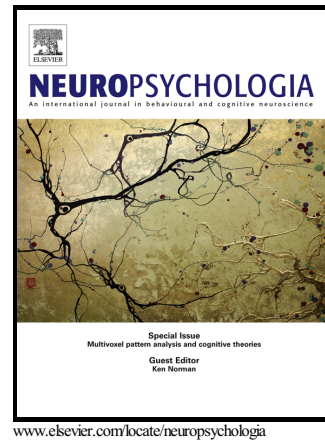


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Interaction of memory systems during acquisition of tool knowledge and skills in Parkinson's disease

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#### Abstract

Previous research suggests that different aspects of tool knowledge are mediated by different memory systems. It is believed that tool attributes (e.g., function, colour) are represented as declarative memory while skill learning is supported by procedural memory. It has been proposed that other aspects (e.g., skilled tool use) may rely on an interaction of both declarative and procedural memory. However, the specific form of procedural memory underlying skilled tool use and the nature of interaction between declarative and procedural memory systems remain unclear. In the current study, individuals with Parkinson's disease (PD) and healthy controls were trained and tested over 2 sessions, 3 weeks apart, to use a set of novel complex tools. They were also tested on their ability to recall tool attributes as well as their ability to

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