

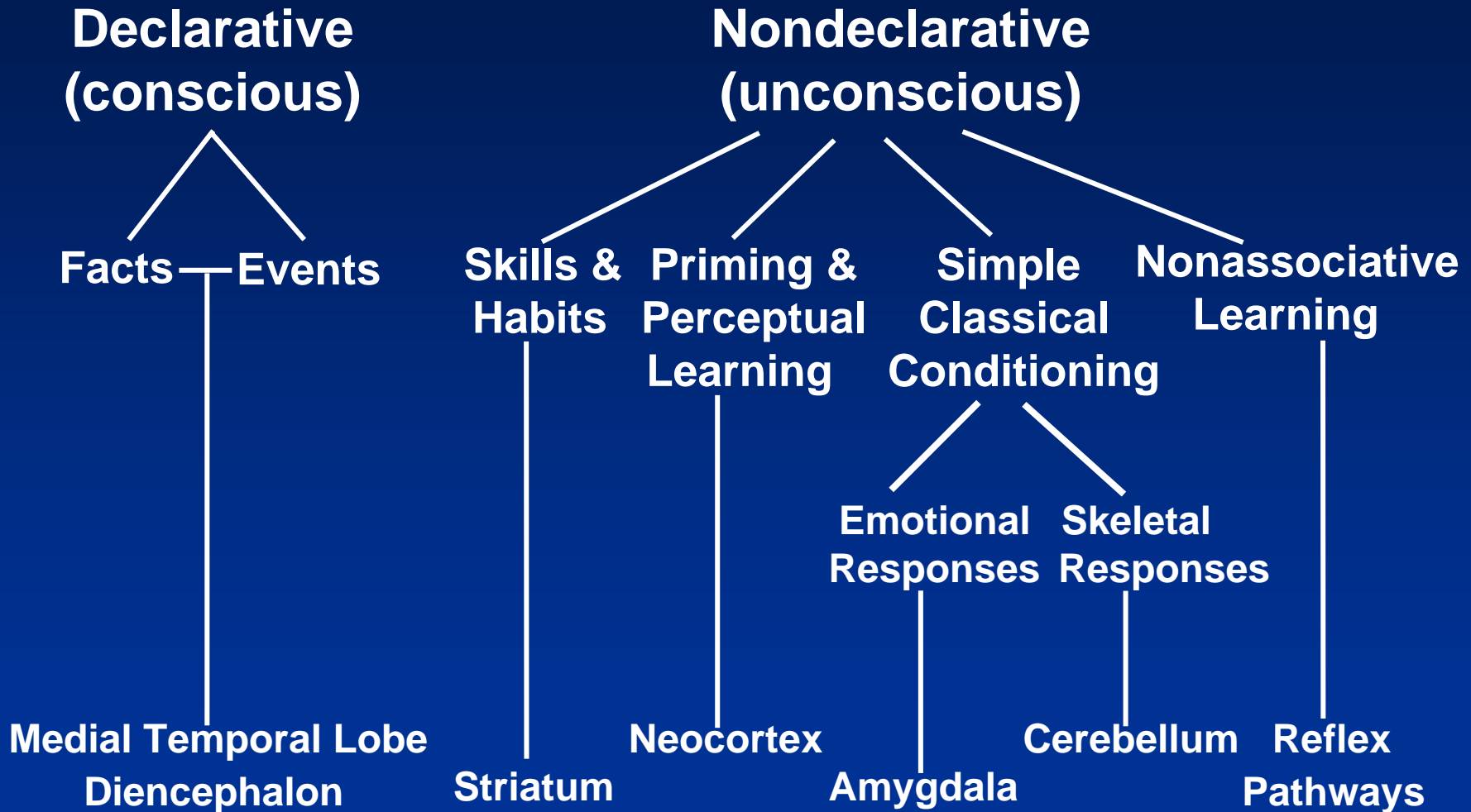


Experience-dependent eye movements reflect hippocampus-dependent (aware) memory

Christine Smith

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Assistant Project Scientist with Larry Squire

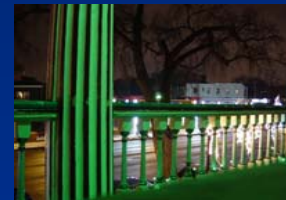
Long-Term Memory

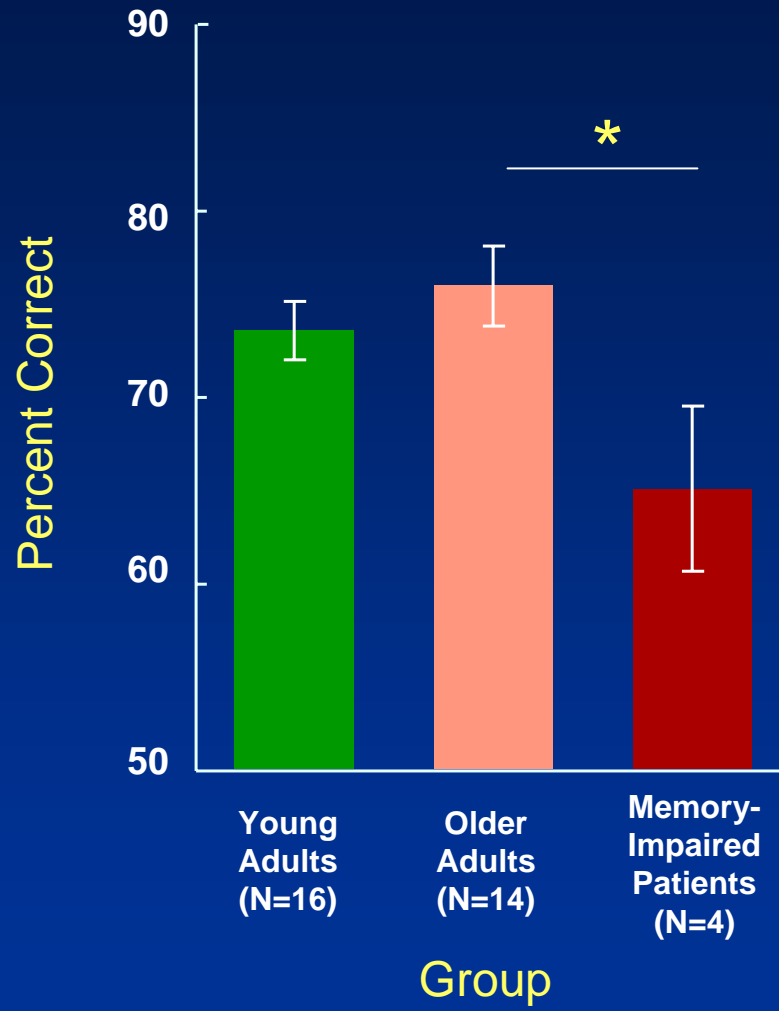


Study



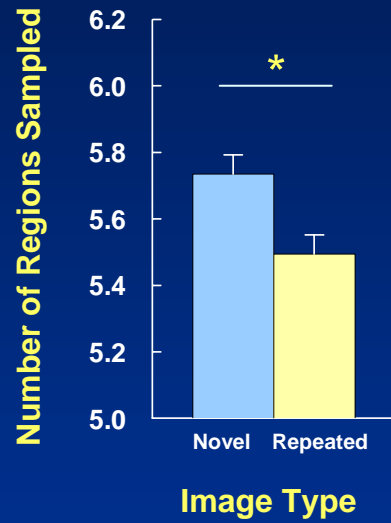
Test



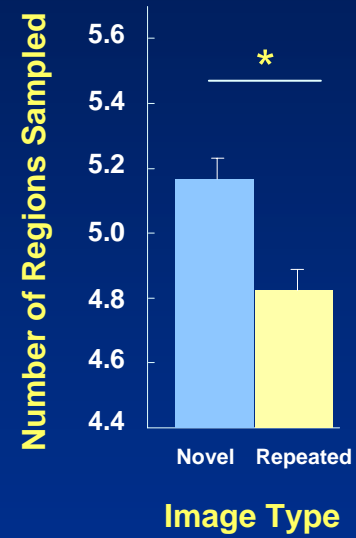


Smith & Squire, J. Neurosci. 2008

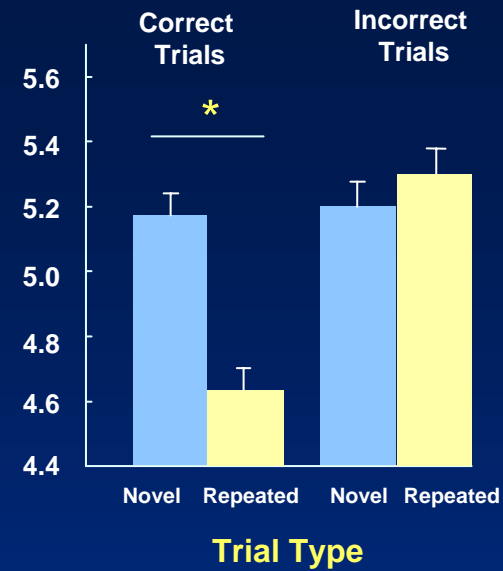
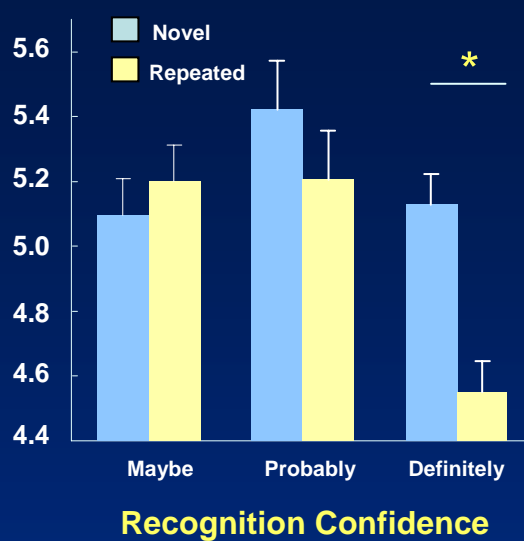
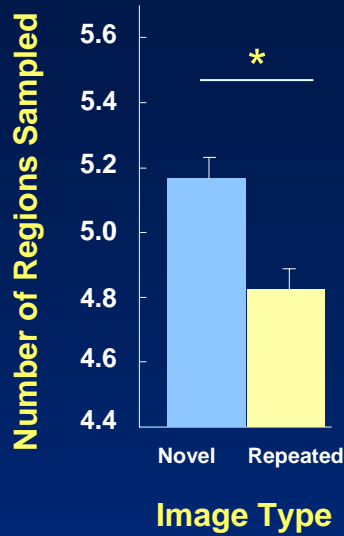
Young Adults (N=16)



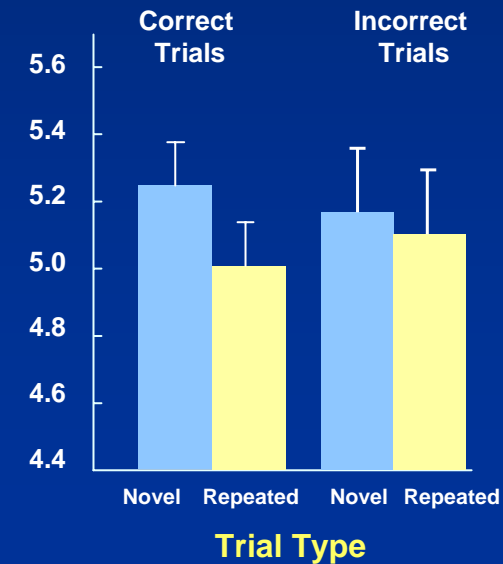
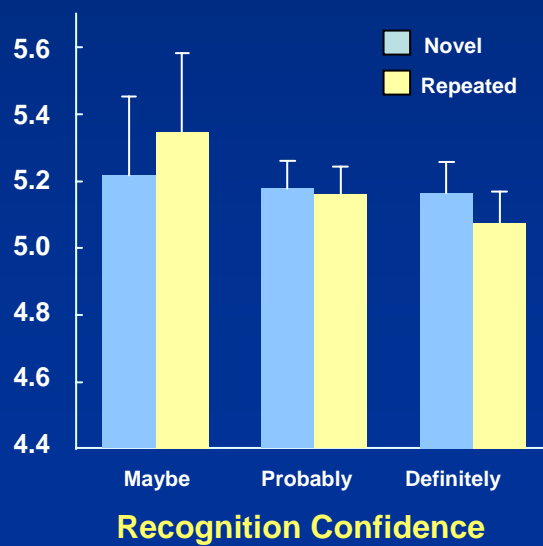
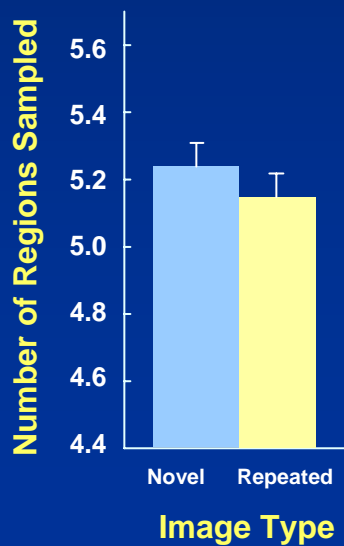
Older Adults (N=14)



Older Adults (N=14)



Memory-Impaired Patients (N=4)



Block 1

Block 2

Block 3

Novel



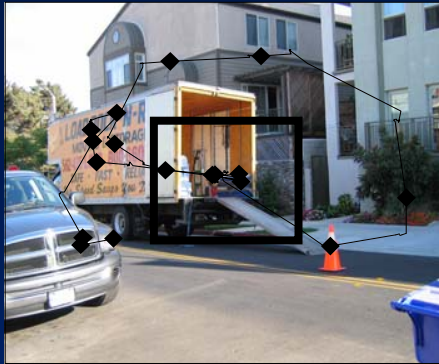
Repeated



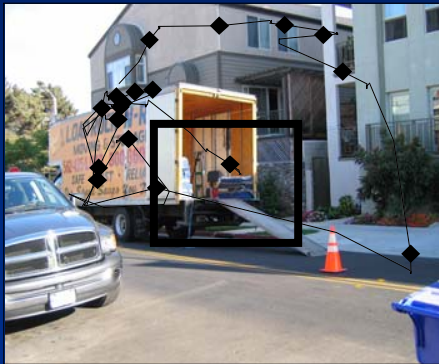
Manipulated



Novel



Repeated



Manipulated



Block 1

Block 2

Block 3

Novel

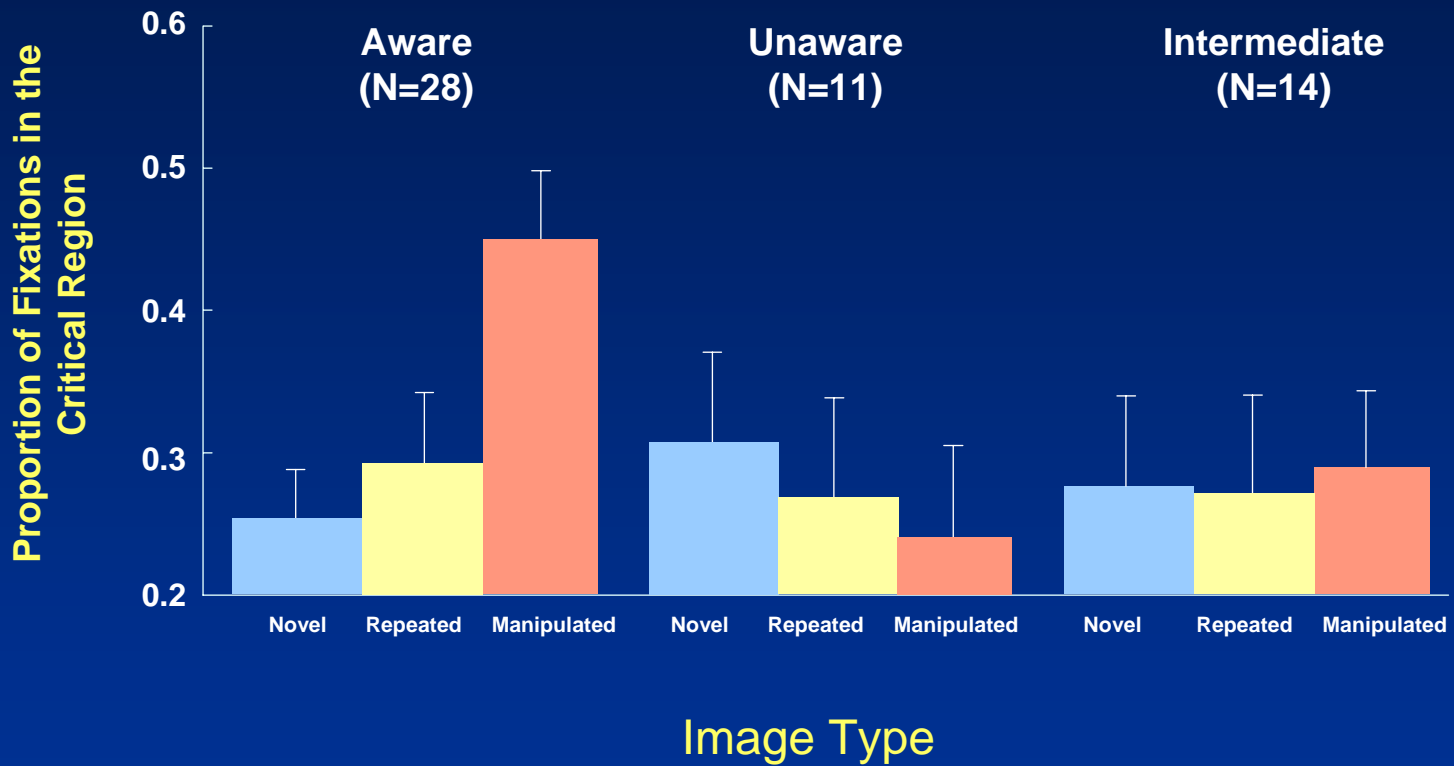


Repeated



Manipulated





Smith & Squire, J. Neurosci., 2008

Summary

- Eye movements do not betray some unconscious form of memory.
- Eye movements reflect conscious, declarative knowledge of what has occurred, even when there is no expectation that memory would be tested.
- These findings support the view that access to awareness is a feature of hippocampus-dependent memory.