## Enhancing Memory using Enactment in Stroke Patients: Assessing the Role of Semantic Integration and Cognitive Planning



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## Introduction

- Enactment Effect Performing a meaningful action at encoding benefits memory relative to silent reading<sup>1,2</sup>
- Posterior Parietal lobe a critical integration hub for verbal and motoric information – is thought to underlie this memory benefit<sup>3,4</sup>

## Results

Group	Mean Read Recall	Mean Enact Recall
Control	3.80	5.60
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3. Some studies attribute the Enactment effect to cognitive planning of motoric actions (Frontal lobe)<sup>5</sup>

Objective: Infer the neural basis of Enactment by comparing the magnitude of the Enactment effect in patients following stroke to the Frontal or Parietal lobes.







## Conclusions

1. Parietal Group did not benefit from Enactment of words at encoding

2. We observed a significant positive relation between category fluency (measure of planning) and overall recall; r =0.46, p = .005

