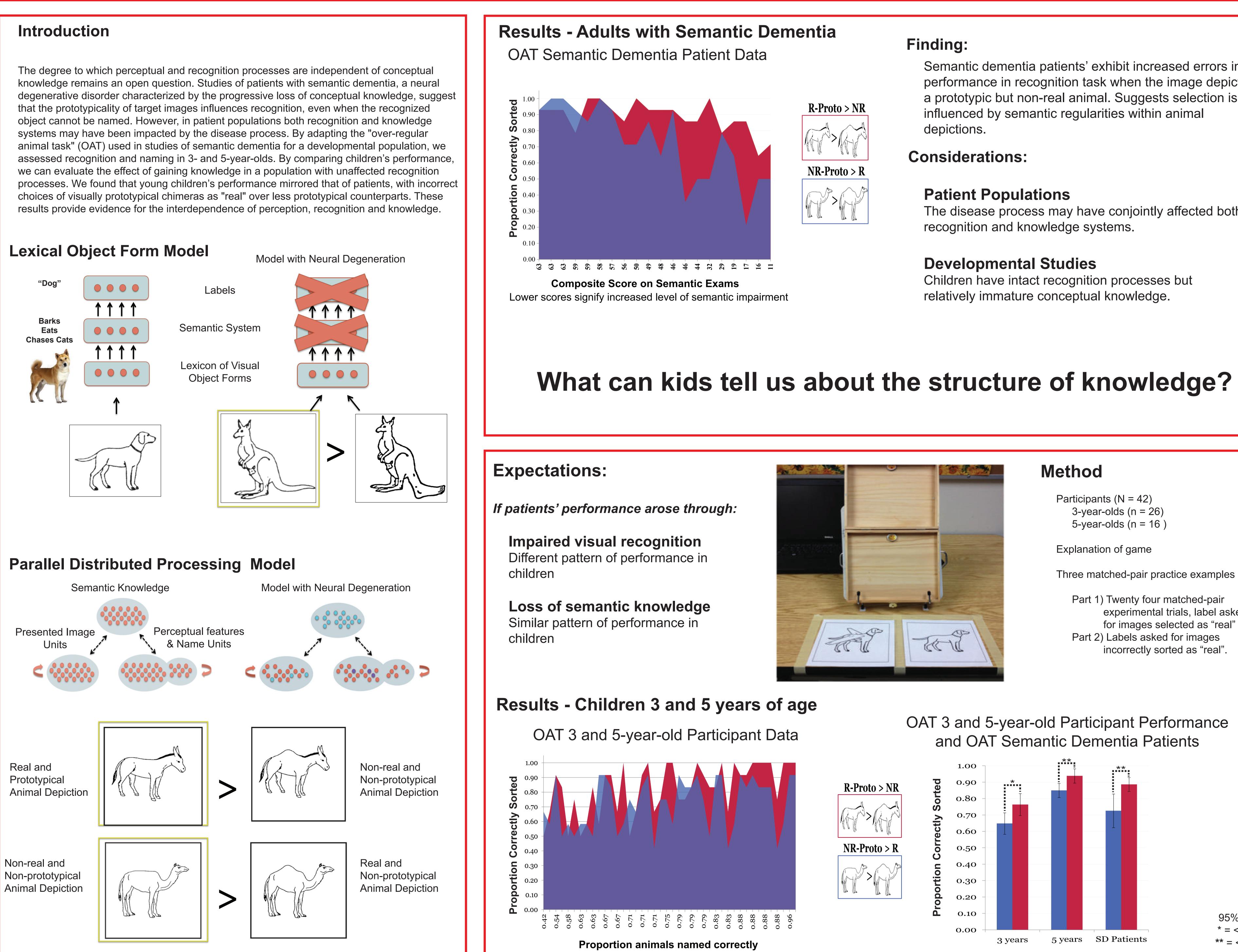


Is a Humpless Camel Real? The Role of Knowledge in Visual Recognition Clint A. Jensen, Timothy T. Rogers, Vanessa R. Simmering Department of Psychology, University of Wisconsin, Madison



Semantic dementia patients' exhibit increased errors in performance in recognition task when the image depicts a prototypic but non-real animal. Suggests selection is influenced by semantic regularities within animal

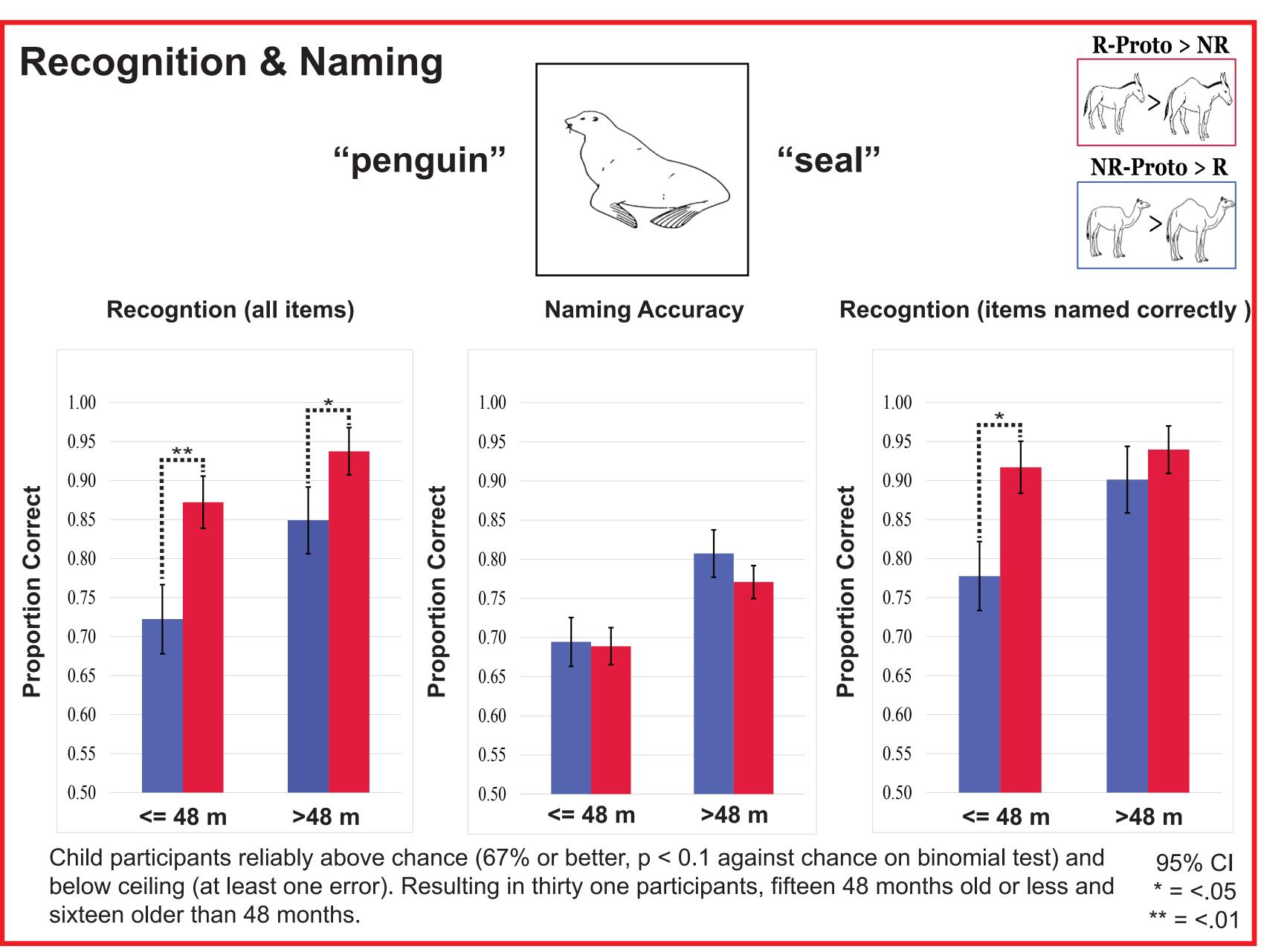
The disease process may have conjointly affected both

Children have intact recognition processes but

Three matched-pair practice examples

Part 1) Twenty four matched-pair experimental trials, label asked for images selected as "real" Part 2) Labels asked for images incorrectly sorted as "real".

OAT 3 and 5-year-old Participant Performance and OAT Semantic Dementia Patients



Conclusions

Performance of children aged 3 to 5-year-old mirrors selections of semantic dementia patients; favoring more prototypic depictions

recognition

Current and Future Directions

Remove need for children to understand "real" vs "silly" distinction through touch selection in change detection paradigm on tablet computer

Incorporate eye-tracking methodologies to model gaze paths during selection

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95% CI

* = <.05

** = <.01



Support found for model wherein semantic knowledge informs visual

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