

Preoperative Remote Cognitive Assessment for Delirium Prediction: a Pilot Study

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BACKGROUND

Baseline cognitive impairment is a risk factor for **postoperative delirium** (POD) in older adults, but preoperative cognitive assessment is not easily accessible. We implemented a pilot study to evaluate the **feasibility** and **efficacy** of the utilization of the ALLFTD Mobile App cognitive battery to predict POD.

METHODS

Population: adults ≥ 65 undergoing elective spinal surgeries



RESULTS

- All participants had a smartphone with internet access.
- Average time to complete app was 28 min.
- 96% of participants said time was acceptable.
- 90% indicated instructions were clear/neutral
- No tasks identified as being too difficult.

DISCUSSION

App-based remote preoperative cognitive assessments are feasible in terms of access, time commitment, and difficulty. As many patients do not have the opportunity to have in-person preoperative evaluations, they can present an opportunity for early identification and intervention of patients at highest risk for POD.

ACKNOWLEDGEMENTS

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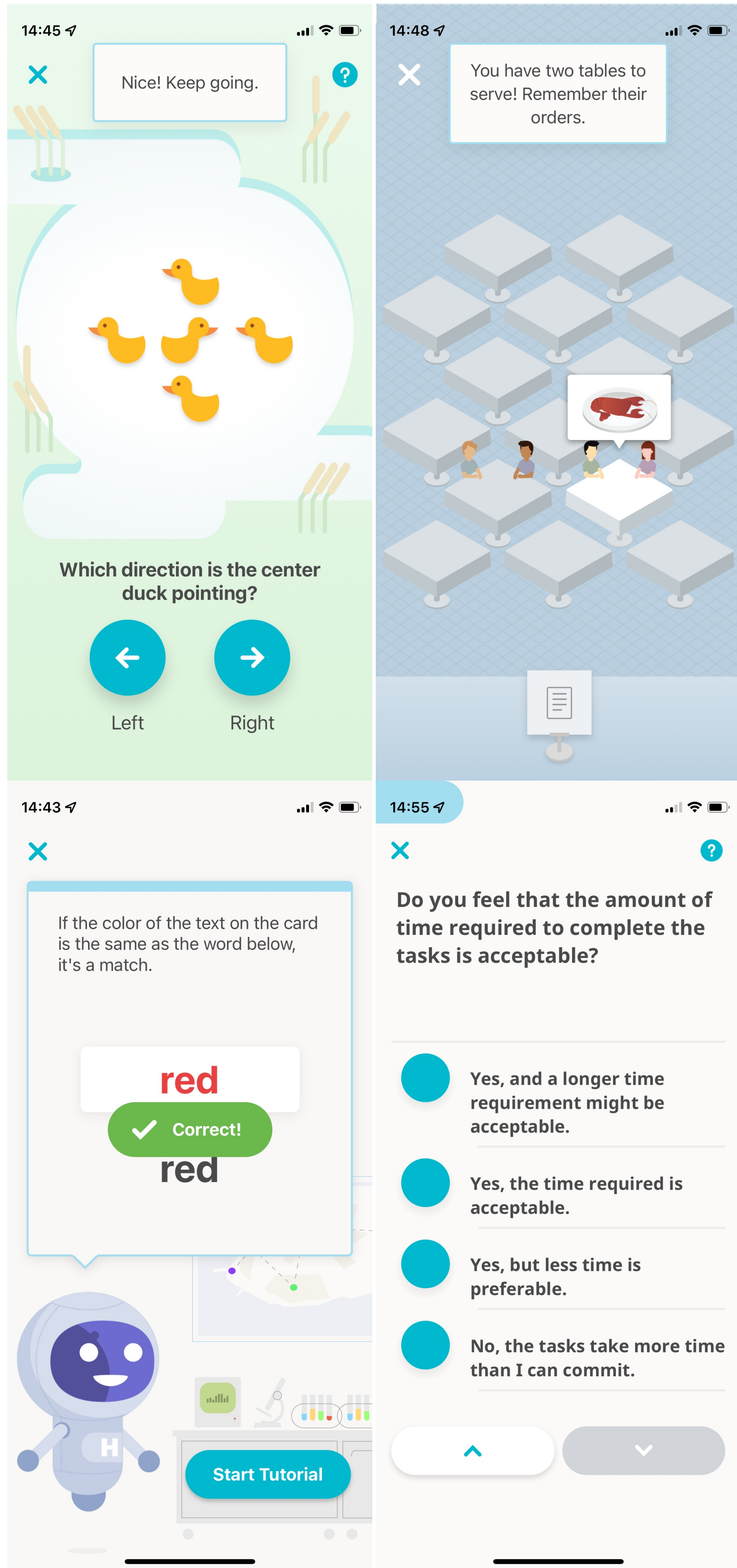
In older adults, **smartphone app-based preoperative cognitive assessments** are a feasible method to identify patients at-risk for **postoperative delirium**.



Take a picture to learn more about the ALLFTD Mobile App



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FIGURES

Examples of app-based cognitive battery tasks.