

## Purpose

**The purpose of this project was to explore Doctor of Physical Therapy (DPT) students' perceptions of learning with an Artificial Intelligence (AI) integrated problem-based activity in a Neuroscience course**

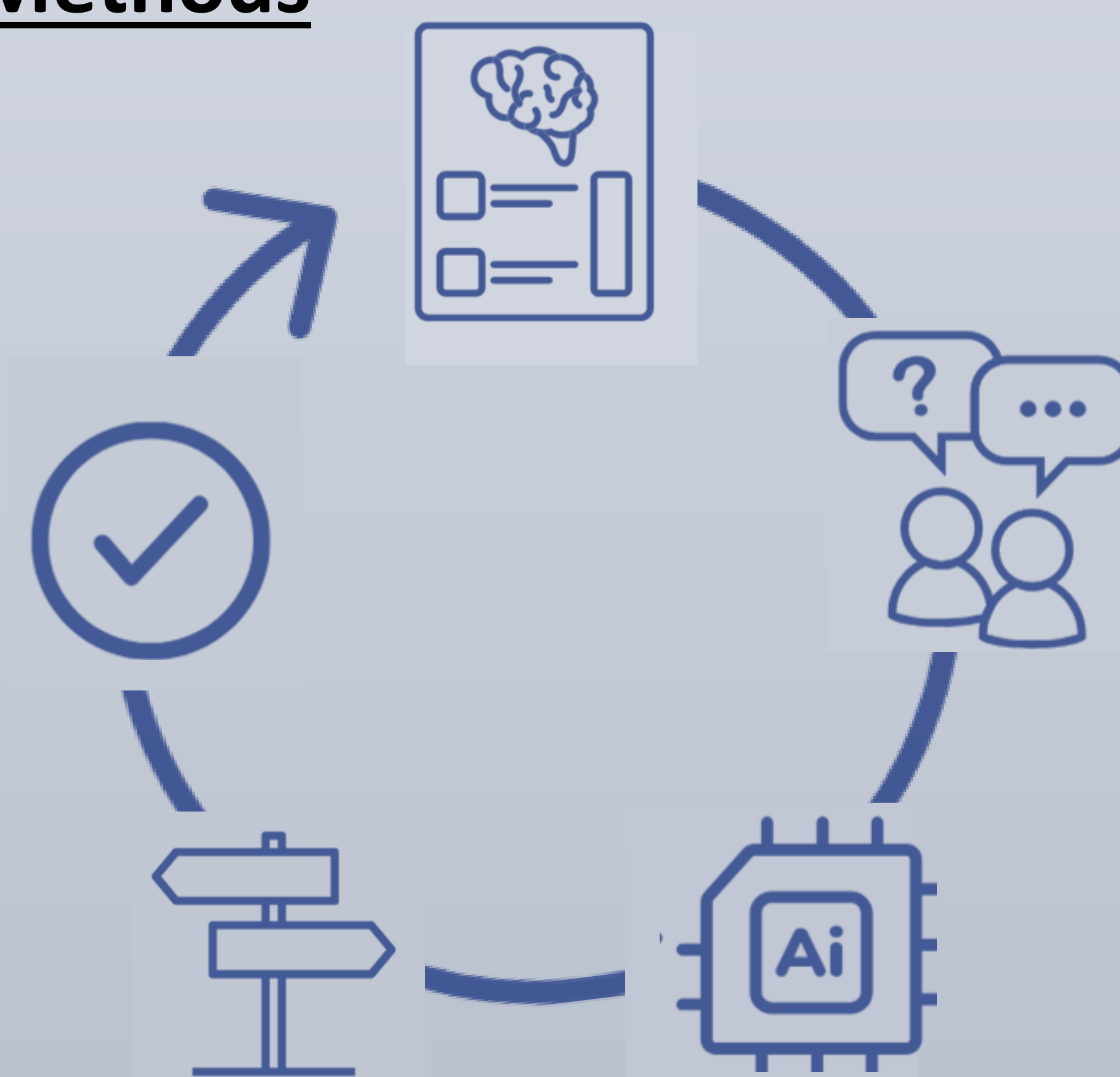
## Available Knowledge & Rationale

- Clinical reasoning is a core skill for DPT students<sup>1</sup>
- Problem-based learning fosters clinical reasoning<sup>1,2</sup>
- AI is novel contributor to healthcare workflow<sup>3,4</sup>

*How can healthcare educators ethically embrace AI as a healthcare tool while fostering clinical reasoning?*

## Methods

- A problem-based learning activity was transformed to incorporate student discernment between correct and incorrect AI-generated responses
- An optional, anonymous 7-question Likert-scale survey based on the Kirkpatrick Model assessed student perceptions of learning and AI<sup>4</sup>

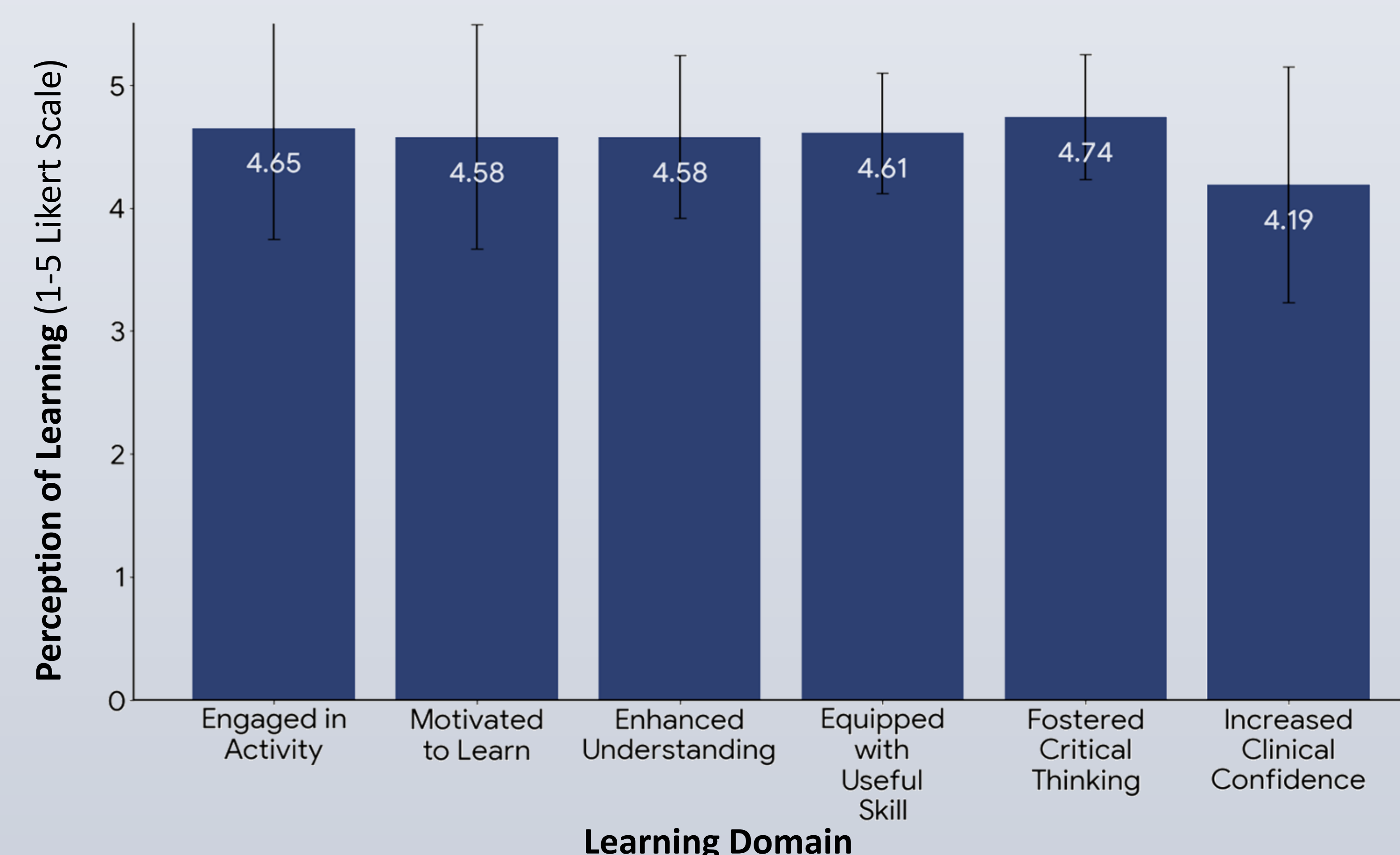


## Data Analysis

- Descriptive analysis was performed on student responses (n = 31)

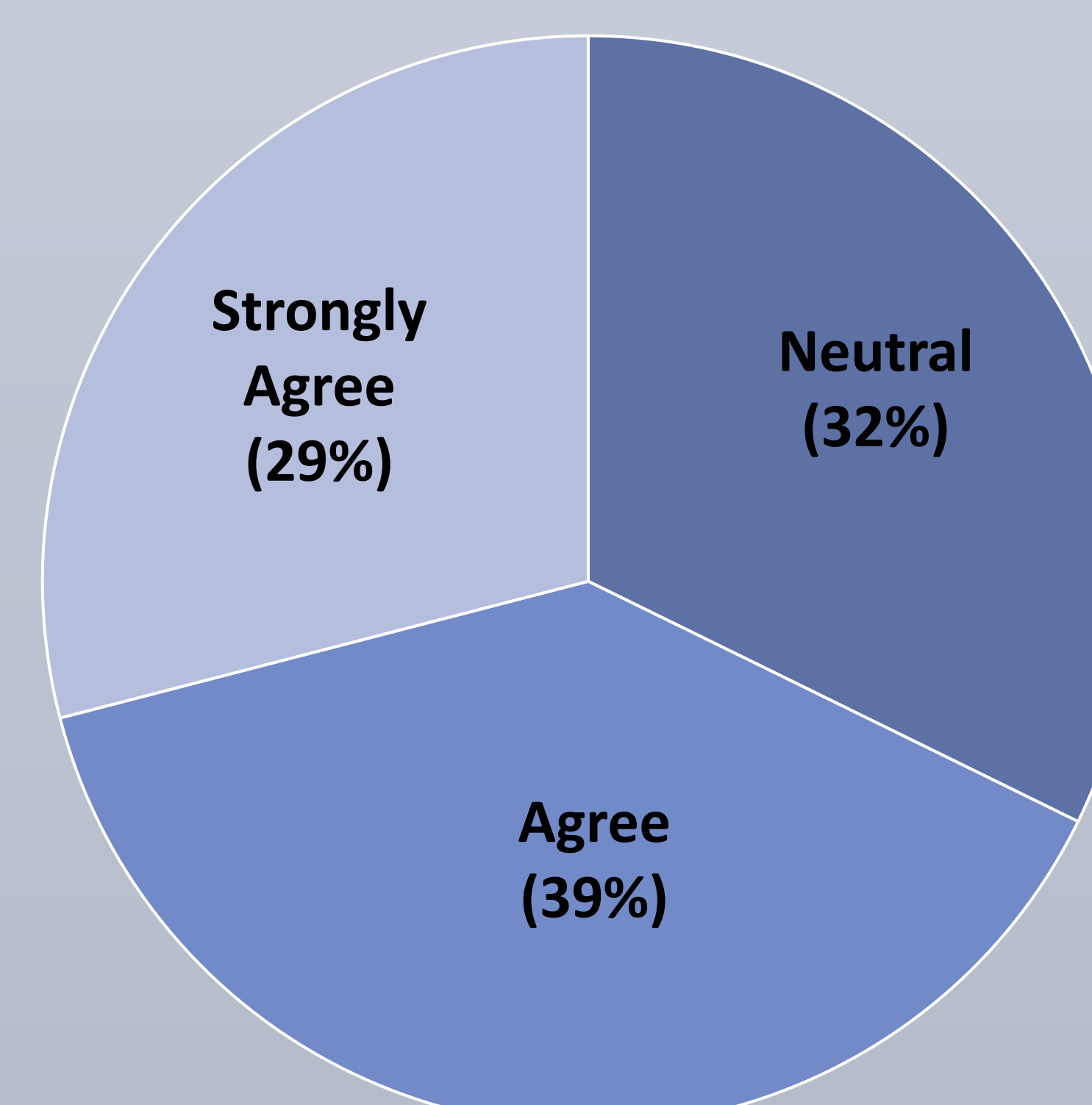
## Results

**Student Perception of the AI Learning Activity**



## **Student Beliefs About AI in DPT Education**

*Statement: Students should be exposed to AI in an academic setting during their DPT education*



## Discussion

- Survey results from the AI-integrated problem-based activity indicated high value perception for learning across all the assessed domains
- A majority of DPT students believe AI should be integrated into their graduate education

## Conclusions

**Integrating AI into a case-based activity to cultivate clinical reasoning is a novel, feasible pedagogical strategy to enhance DPT student learning in applied Neuroscience.**

- Healthcare educators should consider incorporating similar AI-integrated methodologies to develop adaptable and discerning practitioners for evolving clinical workflows
- Additional innovative pedagogical applications of AI in healthcare education remain to be explored<sup>5</sup>
- Future large studies are needed among variable healthcare learner groups and learning subjects<sup>5</sup>

## References & Contact Information

