

### Background

- ACPE 2016 Standards require PharmD graduates to have the skills to manage a medication use system with a patient-centric approach.
- Virtual simulations provide a controlled, safe environment for students to practice and improve skills confidence before APPEs and practice.
- MyDispense is an effective tool to improve dispensing knowledge and skills; however, its impact on student confidence is unknown.

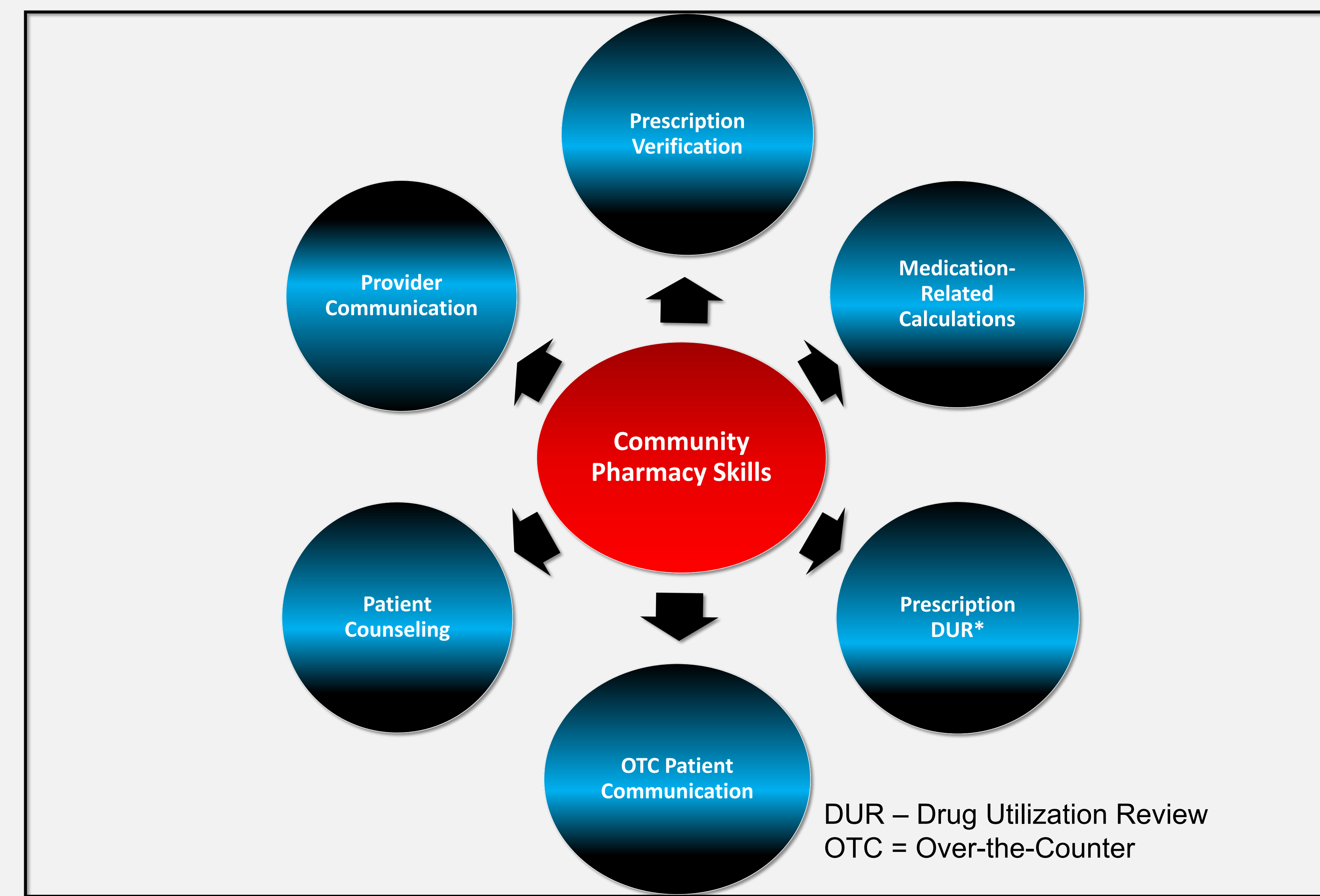
### Objective

- To assess student confidence in various essential community pharmacy practice skill utilizing a virtual simulation program, MyDispense.

### Methods

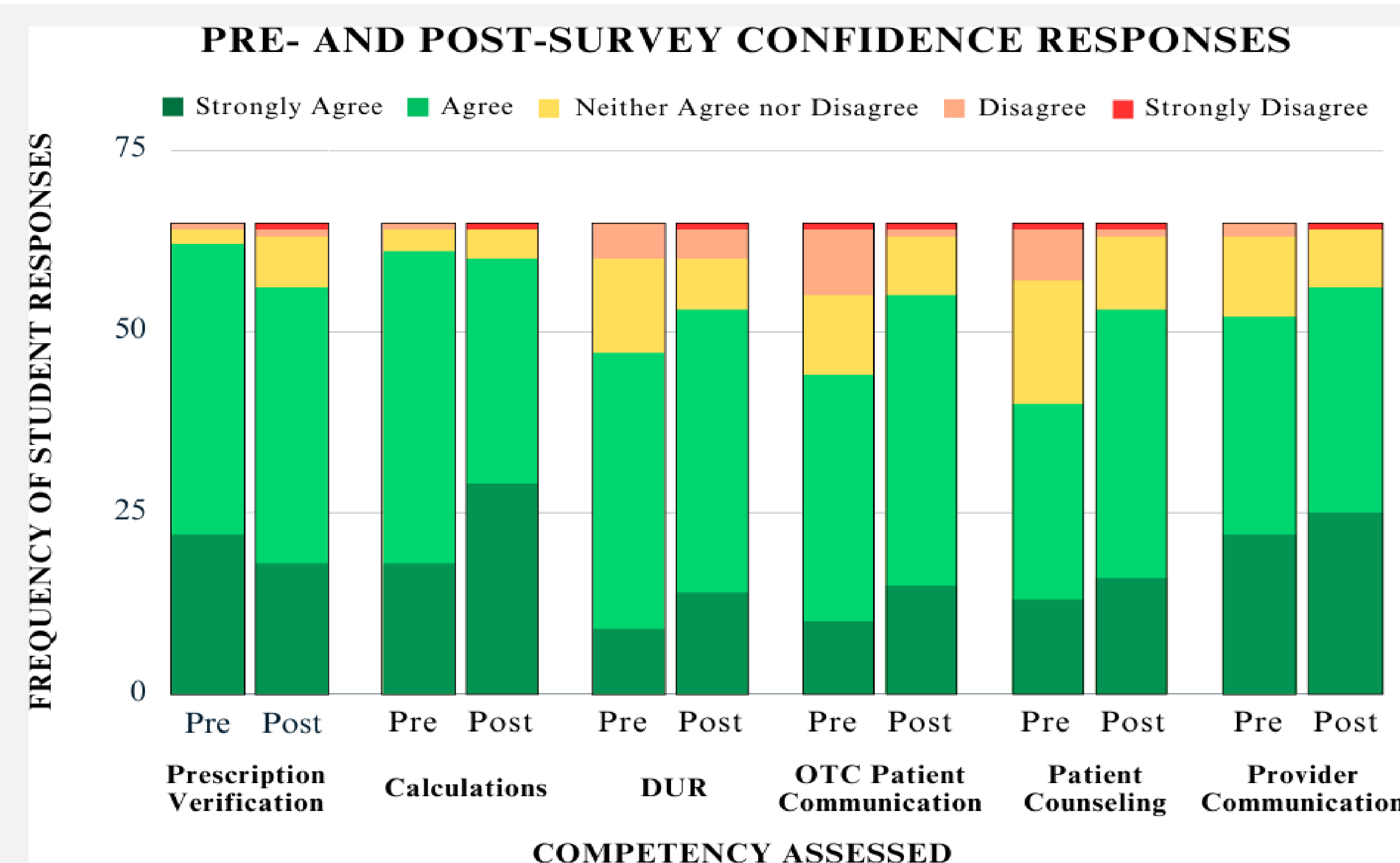
- Third year pharmacy students (P3) at SIUE School of Pharmacy completed a pre-survey assessing baseline confidence in completing various community pharmacy practice skills prior to completing five community pharmacy MyDispense modules.
- Students completed a post survey following module completion to assess skill confidence as a result of practicing in MyDispense. Pre- and post-surveys utilized a 5-point Likert scale to assess changes in student confidence with six community pharmacy practice skills, collecting demographic information about age, gender identity, pharmacy work experience, and prior use of MyDispense. Post-surveys also included open-ended questions for students to provide feedback on MyDispense utilization.

### Community Pharmacy Skills



### Results

#### PRE- AND POST- SURVEY CONFIDENCE RESPONSES (N=65 students )

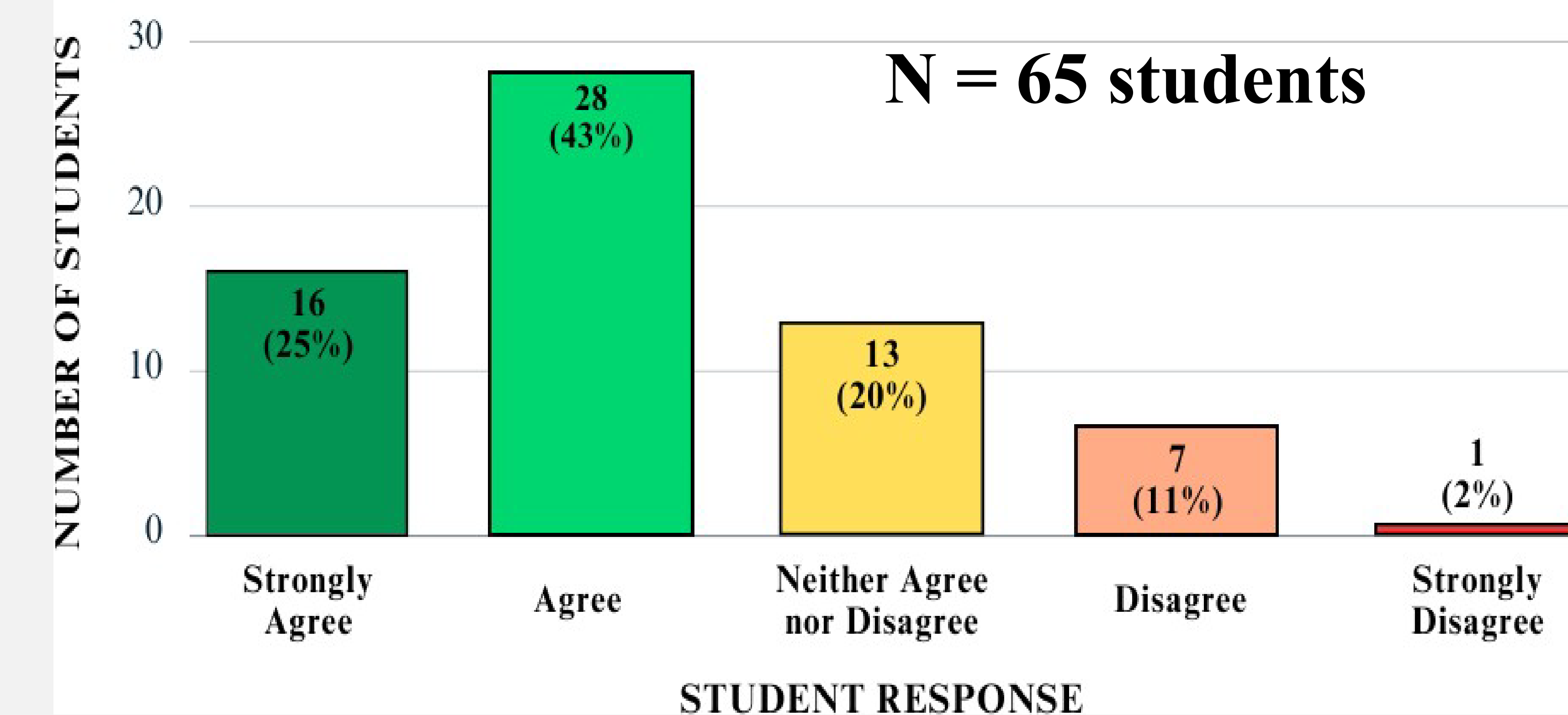


#### DIFFERENCE OF MEAN CONFIDENCE AFTER MYDISPENSE PRACTICE

	Prescription Verification	Calculations	DUR	OTC Patient Communication	Patient Counseling	Provider Communication
Difference	-0.18	0.14	0.15	0.37	0.34	0.11
P-Value	0.07	0.10	0.14	0.01	0.01	0.20

### Results Cont'd.

#### STUDENT AGREEMENT TO THE STATEMENT, "PRACTICING IN MYDISPENSE HAS IMPROVED MY CONFIDENCE IN THE SKILLS NEEDED FOR PHARMACY PRACTICE."



### Discussion

- MyDispense utilization increased student confidence with pharmacy practice skills in 68% of students.
- Student confidence increased with medication-related calculations, DUR, patient counseling, and provider communication.
- Confidence with OTC and prescription counseling increased significantly following practice in MyDispense ( $p=0.01$ ).
- Some students reported issues with navigating the system; incorporating MyDispense earlier in the curriculum may reduce some of the technical challenges.
- Student feedback was overall positive, noting that working through MyDispense activities was a great learning experience, included all skills needed for community pharmacy practice, and simulation activities are comparable to pharmacy work experiences.

### Conclusion & Future Directions

- Practicing essential community pharmacy skills in MyDispense improved student confidence overall.
- Providing opportunities to practice these skills utilizing simulation assures that students are adequately prepared for APPEs and pharmacy practice.
- Future studies will evaluate additional student skill confidence assessments utilizing MyDispense and eventually expanding its use to earlier in the curriculum.