

BACKGROUND

- Student confidence is an important quality that contribute to success during APPEs and as a practicing pharmacist.
- Objective structured clinical examinations (OSCEs) and performance-based assessments (PBAs) are used to measure abilities to apply the knowledge, skill and clinical competence.
- SIUE SOP utilizes PBAs as an assessment tool throughout the pharmacy skills lab course sequence in P1, P2, and P3 year pharmacy
- New curriculum with more PBAs was introduced in fall 2018 for student class of 2022.

OBJECTIVE

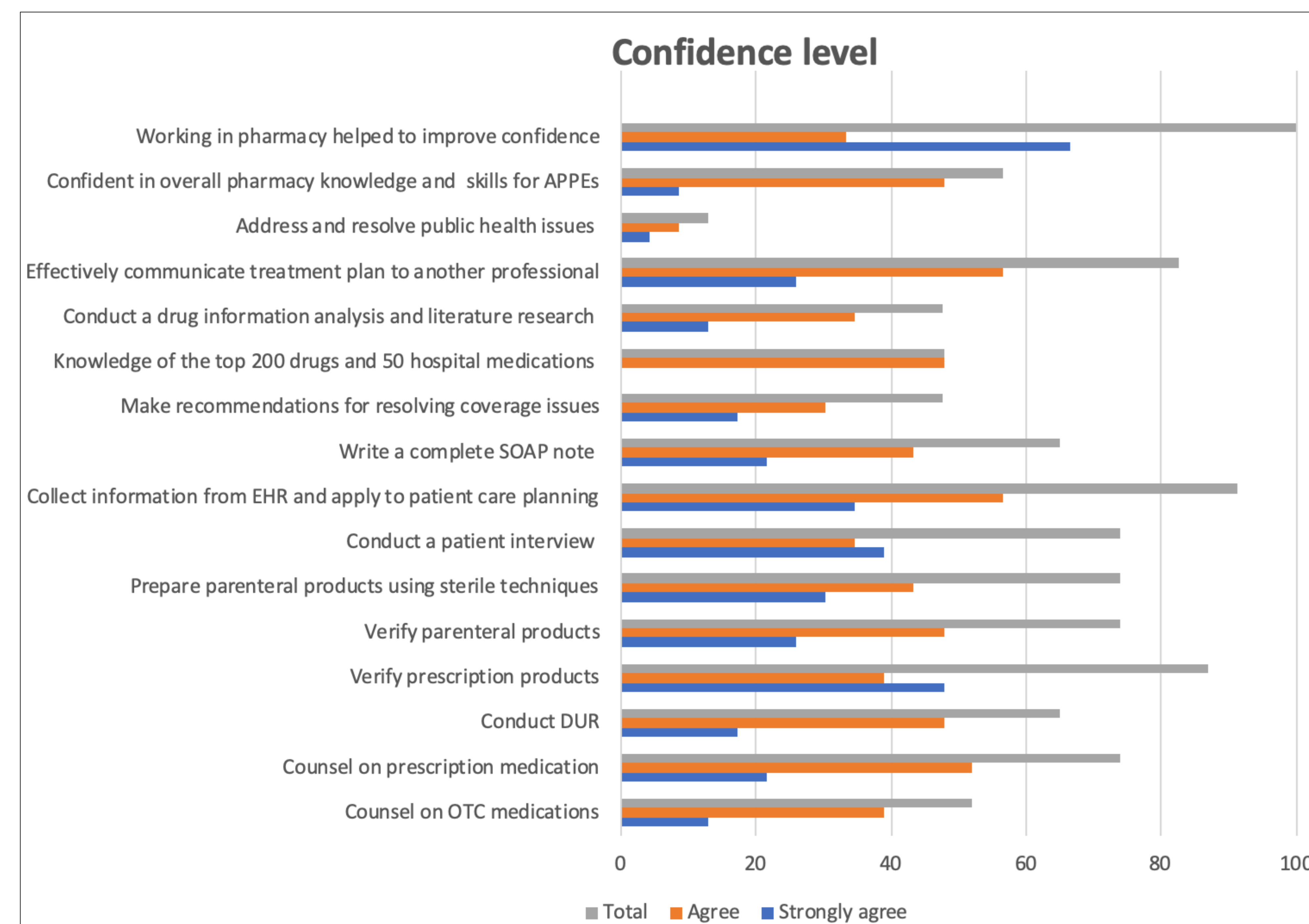
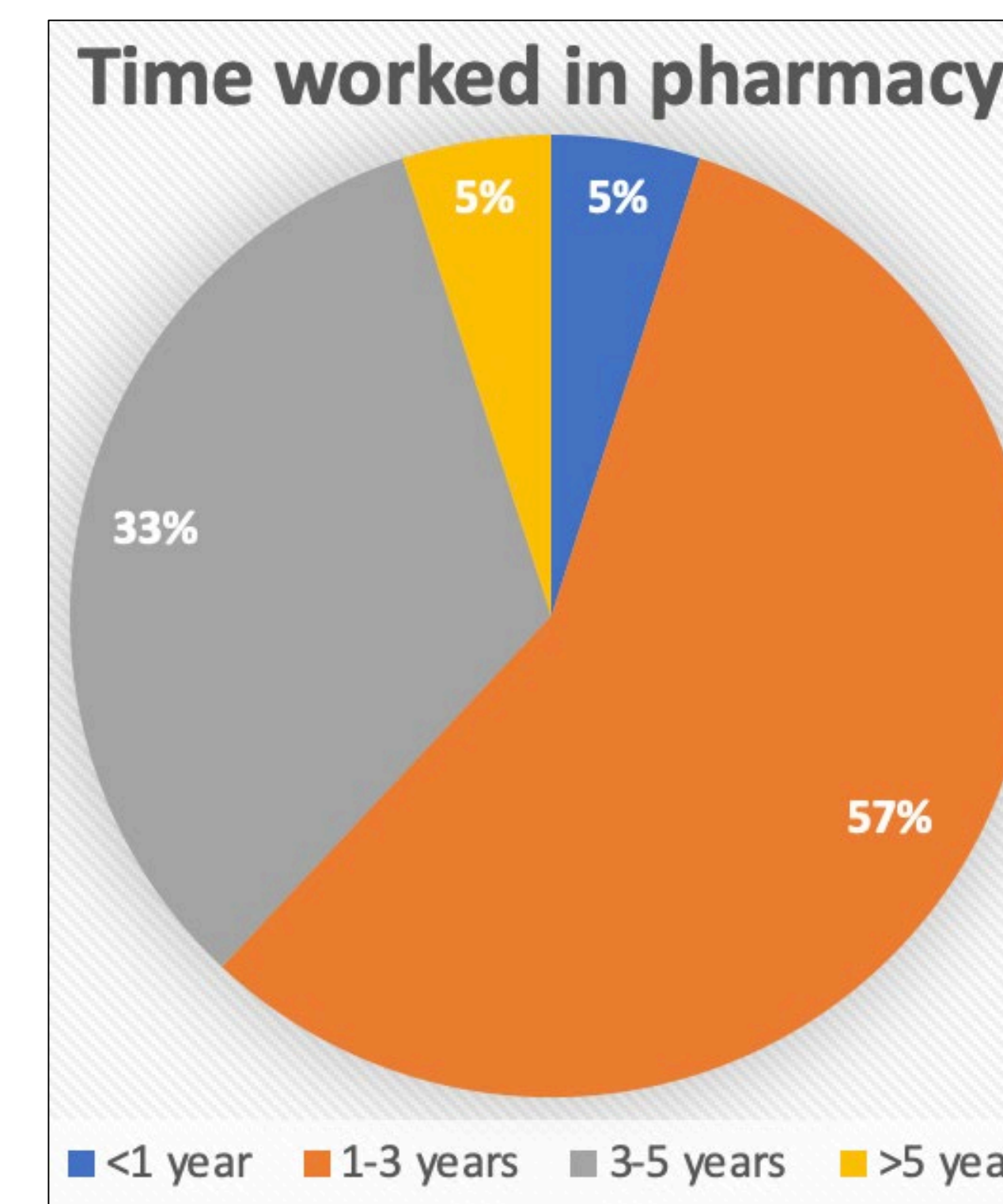
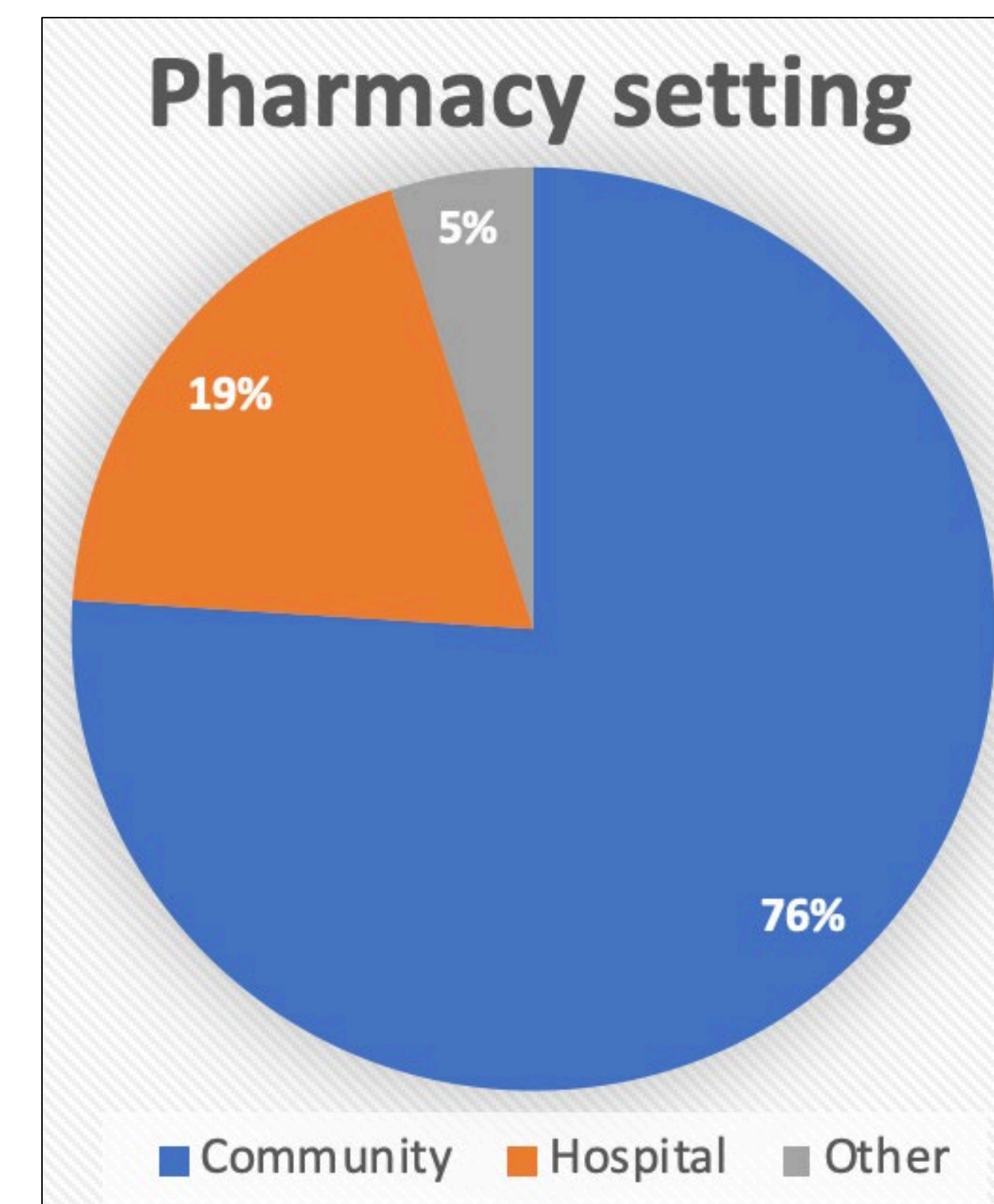
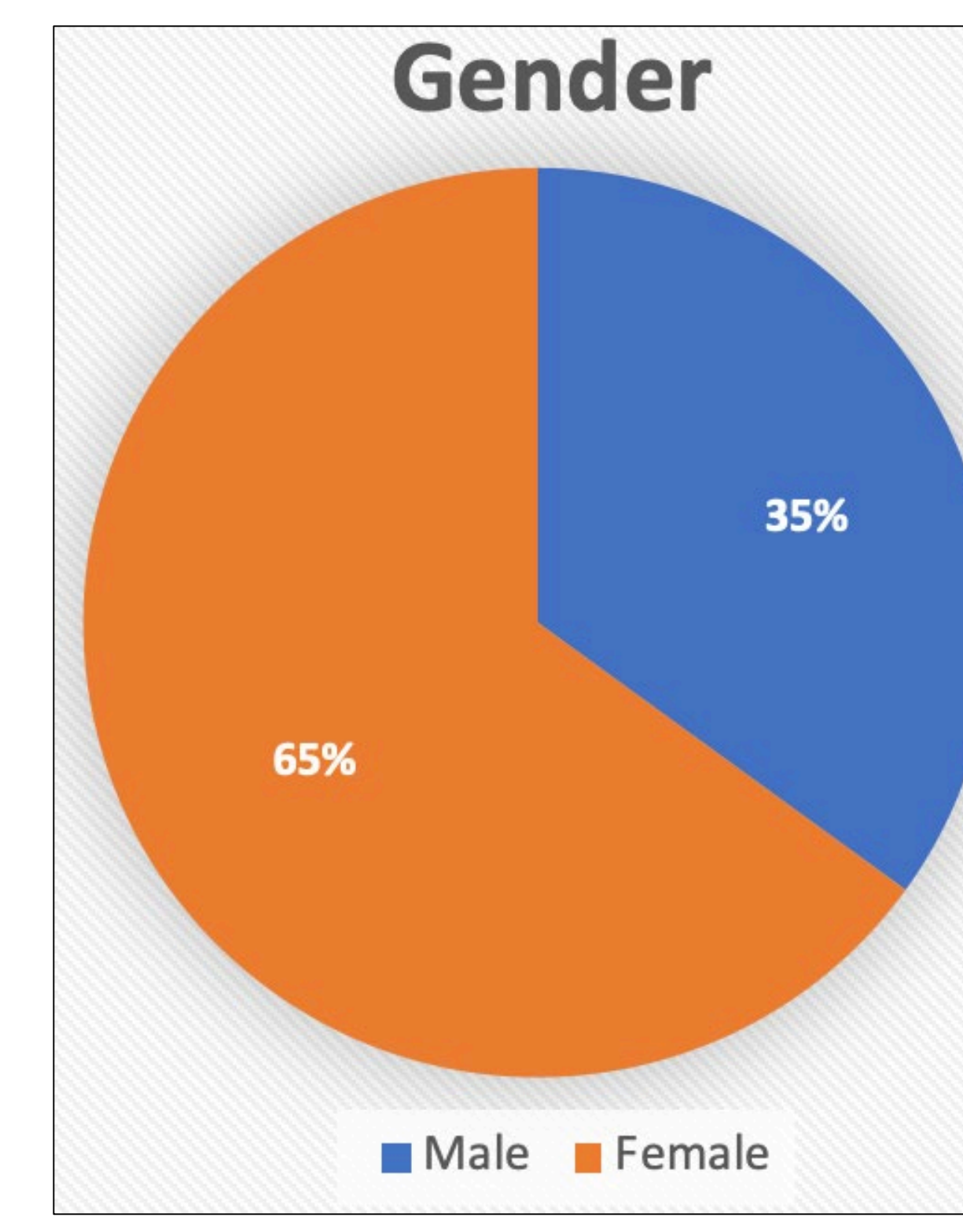
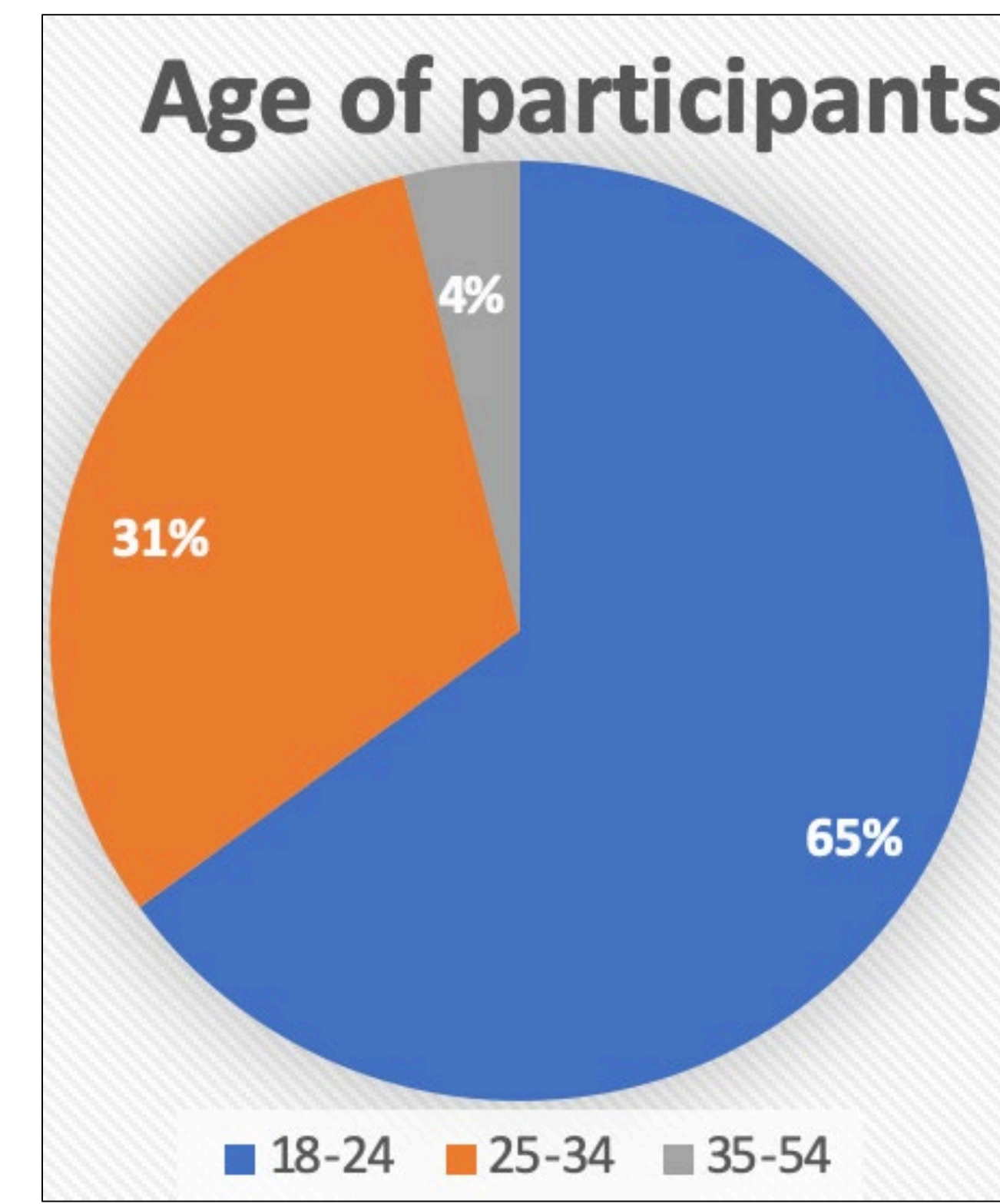
- To assess student perceptions of pharmacy practice skill abilities as well as APPE readiness.

METHODS

- IRB approval was obtained from SIUE
- IRB # 963
- Included all P3 students at Southern Illinois University in Edwardsville School of Pharmacy class of 2022
- An anonymous 21-question Qualtrics survey was emailed to Class of 2020 SIUE SOP Survey information on baseline characteristics, work history, and confidence in pharmacy practice skills.
- Students were asked to rate their confidence level (5-point Likert scale for the following skills:

Counsel patients on over-the-counter (OTC) medications
Counsel patients on prescription medications
Conduct DUR when completing order entry/verification
Verify prescription products and parenteral products
Prepare parenteral products using sterile compounding techniques
Conduct a patient interview
Write a complete SOAP note
Collect information from EHR and apply to patient care planning
Make recommendations for resolving prescription drug coverage issues
Knowledge of the top 200 drugs and top 50 hospital medications
Conduct a drug information analysis and literature research
Effectively communicate a treatment plan to another healthcare professional
Address and resolve public health issues
Confident in overall pharmacy knowledge and practice skills needed for APPEs
Working in a pharmacy has helped to improve confidence in pharmacy practice skills

RESULTS



APPEs = Advanced Pharmacy Practice Experiences; PBA = Performance-Based Assessment; SIUE = Southern Illinois University Edwardsville; SOP = School of Pharmacy; DUR= drug utilization review

RESULTS

- Out of 84 students, 28 students submitted the surveys for response rate of 33%, but only 23 surveys were included in the analysis
- 91.3% work in a pharmacy
- > 80% of the students agreed or strongly agreed that they feel confident in their ability to verify prescription products, collect information from EHR to apply into patient care planning, and effectively communicate the treatment plan to another healthcare professional.
- 13% of the students felt confident in their ability to address and resolve public health issues.

LIMITATIONS

- Small sample size with student from a single academic year
- Current pandemic may have contributed to lower response rate
- 65.2% of participants were female and most students work in a pharmacy

CONCLUSION

- Performance-based assessment (PBAs) is a useful tool to evaluate students' clinical competence and knowledge learned during the curriculum
- Most of the student felt confident in their ability to verify prescription products, collect information from EHR to apply into patient care planning, and communicate effectively the treatment plan to another healthcare professional as demonstrated by the study results.
- However, only 56.5% of the students feel confident in overall pharmacy knowledge and practice skills needed for APPEs.
- A future study with a larger number of participants is warranted in order to access student's progression and competence. Follow up studies to investigate student perception after APPEs is necessary to see if there is a correlation between their performance score and confidence levels before APPE