# 

and Pharmaceutical Sciences

#### INTRODUCTION

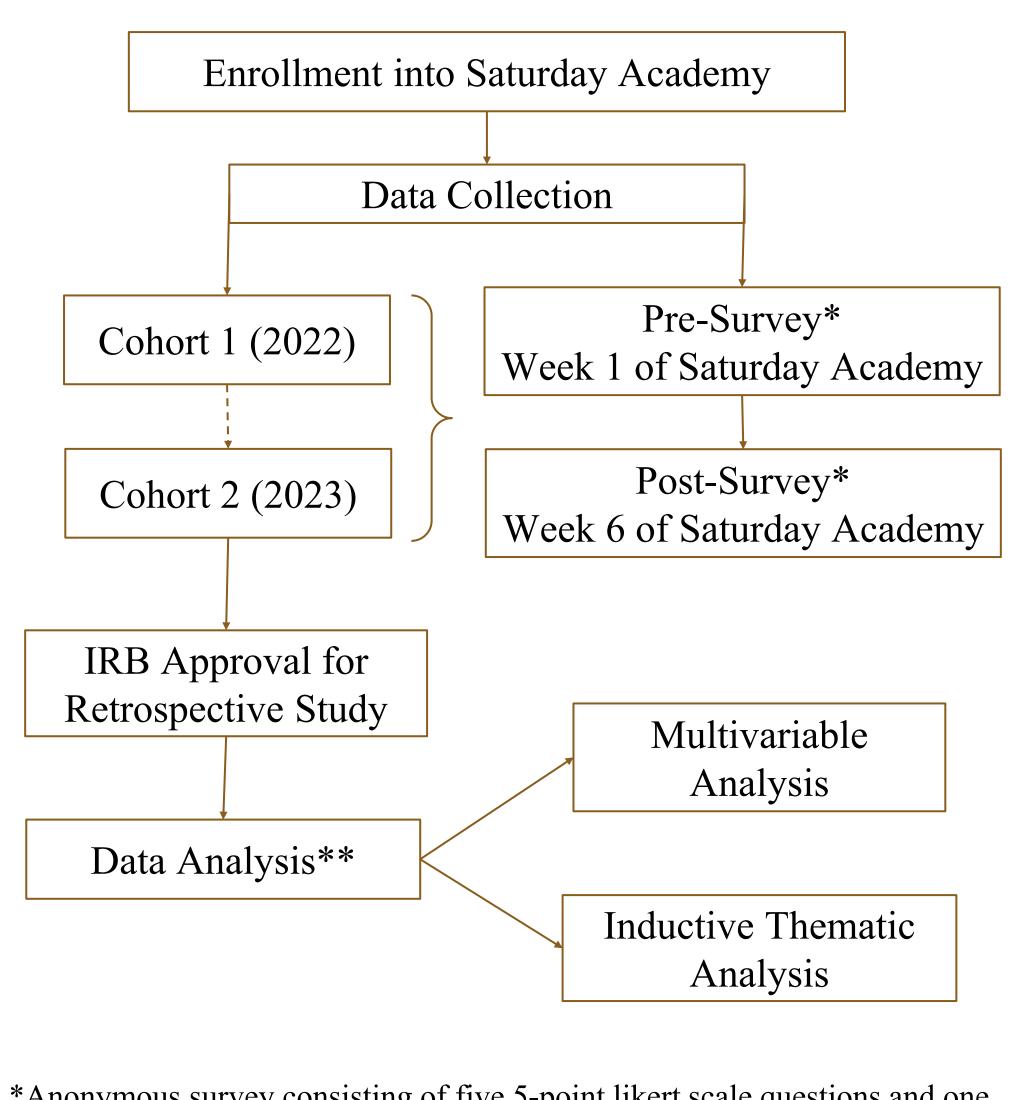
Individuals from underrepresented minority (URM) groups represent a small percentage of pharmacists and pharmaceutical scientists. The Southern California Outreach for Pharmacy Education (SCOPE) Saturday Academy exposes high school students from URM groups to pharmacy and pharmaceutical science careers through mini-lectures, a longitudinal project and hands-on learning. Our curriculum explores the following themes:

- 1. Research & Academia
- 2. Clinical Pharmacy & Digital Health
- 3. Pharmaceutical Industry
- 4. Compounding
- 5. Public Health
- 6. Health Policy & Economics

#### **OBJECTIVES**

A six-session, hands-on educational curriculum in pharmacy and pharmaceutical sciences was designed and implemented in a program for high school students grades 9 through 12 from URM groups in a large, urban city. The objective of this study is to evaluate the impact of this program on the participants' awareness of and interest in pharmacy and pharmaceutical science career pathways.

#### METHODS



\*Anonymous survey consisting of five 5-point likert scale questions and one open ended free response question

\*\*5-point likert scale was converted to a 3-point ordinal scale, and were analyzed for variance using a two-tailed F-Test, followed by a two-sample ttest, assuming either equal or unequal variances (alpha= 0.05 for all statistical tests); Qualitative data were analyzed using inductive thematic analysis

## Impact of a Pipeline Program in Pharmacy and Pharmaceutical Sciences for Underrepresented High School Students Alfred E. Mann School of Pharmacy Luis Larios<sup>1</sup>, Evans Pope III<sup>1</sup>, Alexander Cantres<sup>1</sup>, Allison Bryant<sup>2</sup>, Daniella Del Toro<sup>1</sup>, Siara Magee<sup>1</sup>, Faith Pogosyan<sup>1</sup>, Melissa Durham, PharmD, MACM<sup>1</sup>

RESILITS

		RESULIS	
Table 1	1. Demographics		
		Pre-Survey	Post-Survey
	Total Responses, n=47 (%)	35 (74.5%)	23 (49%)
	Responses from URM (%)	21 (60%)	15 (65%)
Table 2	2. Percent change in mean survey in pre-	survey versus post-survey	
	Pre-survey, n=35 Mean Response*	Post-survey, n=23 Mean Response*	Percent Change % (p-value)
Q1	2.86	2.87	0.4% (p>0.05)
<b>O2</b>	2.77	2.74	-1.16% (p>0.05)

**Z**.// **Z**•/4  $\mathbf{V}^{\mathbf{Z}}$ 2.87 2.23 **Q3 Q4** 2.11 2.74 **Q5** 2.57 2.61

\*3= Strongly Agree/Agree, 2= Neither Agree/Disagree, 1= Strongly Disagree/Disagree

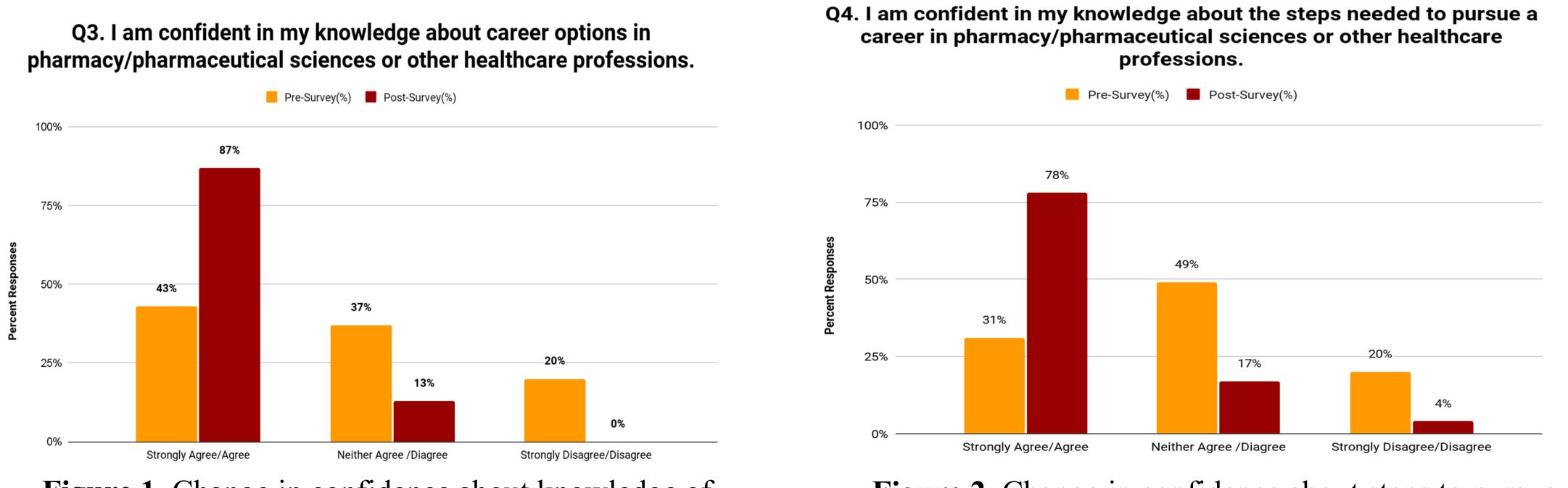
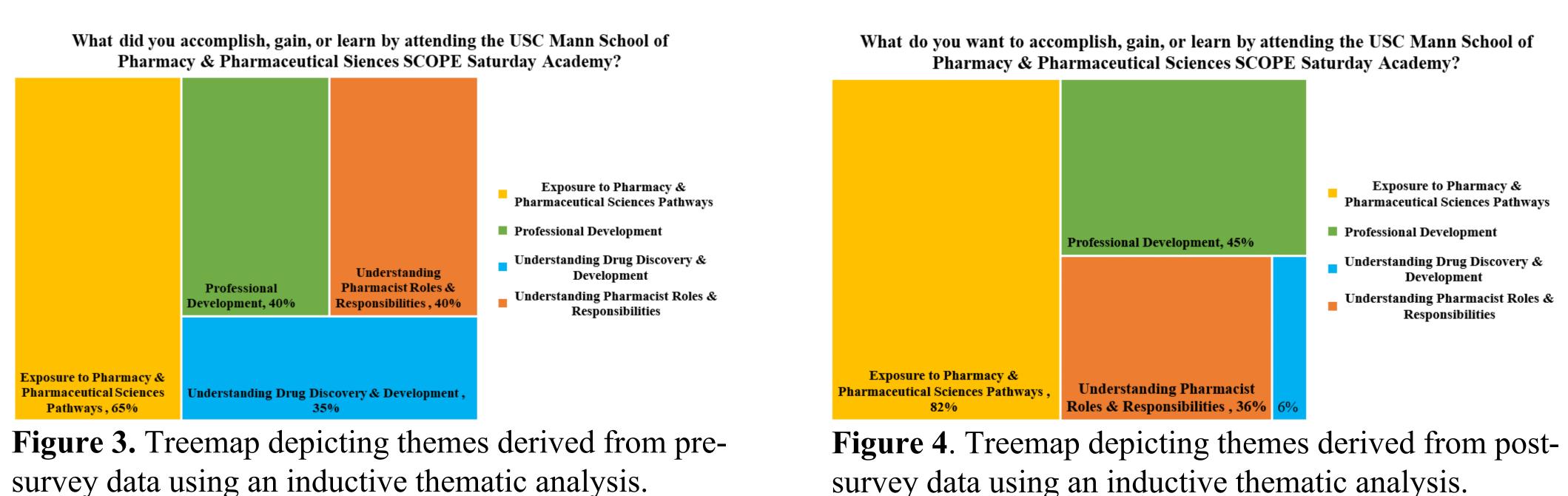


Figure 1. Change in confidence about knowledge of career options, Pre-/Post-survey response (%).

#### Inductive Thematic Analysis Results



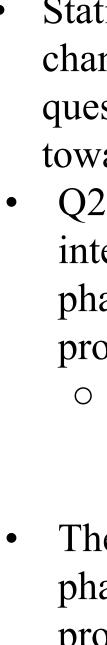
_

Figure 2. Change in confidence about steps to pursue career options, Pre-/Post-survey response (%).

survey data using an inductive thematic analysis.







Implementation of pipeline programs such as the SCOPE Saturday Academy can increase awareness of and interest in career pathways in pharmacy and pharmaceutical sciences for high school students from underrepresented minority groups.

#### SATURDAY ACADEMY COHORTS

2023

#### DISCUSSION

Statistically significant increase in confidence were observed changes in participant responses for Q3 & Q4 from the likert questionnaire, both yielding a 29% increase in confidence towards careers in pharmacy/pharmaceutical sciences

Q2 resulted in a minimal negative change in regards to interest in pursuing a future career in

pharmacy/pharmaceutical sciences or other healthcare professions,

• Though negative, no respondents in the post survey responded strongly disagree/disagree vs 3% in the presurvey

Thematic analysis resulted with the following themes (1) pharmacy and pharmaceutical science career pathways (2) professional development (3) drug discovery and

development and (4) pharmacist roles and responsibilities • Theme (3) drug discovery and development had the highest growth from desired areas of growth (6%) to

gained areas of growth (35%)

### CONCLUSION

### **AUTHOR AFFILIATIONS**

USC Mann School of Pharmacy & Pharmaceutical Sciences, Los Angeles, CA, USA

<sup>2</sup>Keck School of Medicine of USC, Los Angeles, CA, USA