# PRACTICE OUTCOMES FOR THE FIRST DECADE OF RURAL PHARMACY EDUCATION (RPHARM) PROGRAM GRADUATES

I L I N O S S
RPHARM

Heidi R. Olson, PharmD; Allison E. Schriever, PharmD; Martin MacDowell, DrPH, MBA, MS; Kevin O. Rynn, PharmD, FCCP, DABAT



## Background

- There is a deficit of rural pharmacists in Illinois (11.4% of population are rural residents vs. 9% of pharmacists practice rurally) and in the US (20% of population are rural residents vs. 13.9% of pharmacists practice rurally)<sup>1-3</sup>.
- Enablers of rural pharmacy practice include having a rural background, rural training experiences during pharmacy school, and a desire to return to their hometown<sup>4-6</sup>.

The 4-year Rural Pharmacy Education (RPHARM)
Program at University of Illinois Chicago College of
Pharmacy started in 2010 with aims to:

Attract students with rural backgrounds.

Encourage students to practice rural pharmacy.

Offer clinical, community-engaged, and didactic learning experiences specific to rural environments.

## Purpose

Examine the characteristics of practice outcomes for the first 10 graduating classes of the RPHARM Program to determine program effectiveness.

#### Methods

- Hometown ZIP codes were classified as rural if the ruralurban commuting area (RUCA) code was ≥ 4.0 using RUCA code 3.0¹.
- Descriptive analysis done using SPSS 27 (Chicago: IBM Corporation).
- Distance from practice location to graduate's hometown measured using Google Maps<sup>7</sup>.

Definitions of rural used to classify practice outcomes:

RUCA code of 4.0 or higher¹

Federal Office of Rural Health Policy (FORHP) designated rural ZIP code8

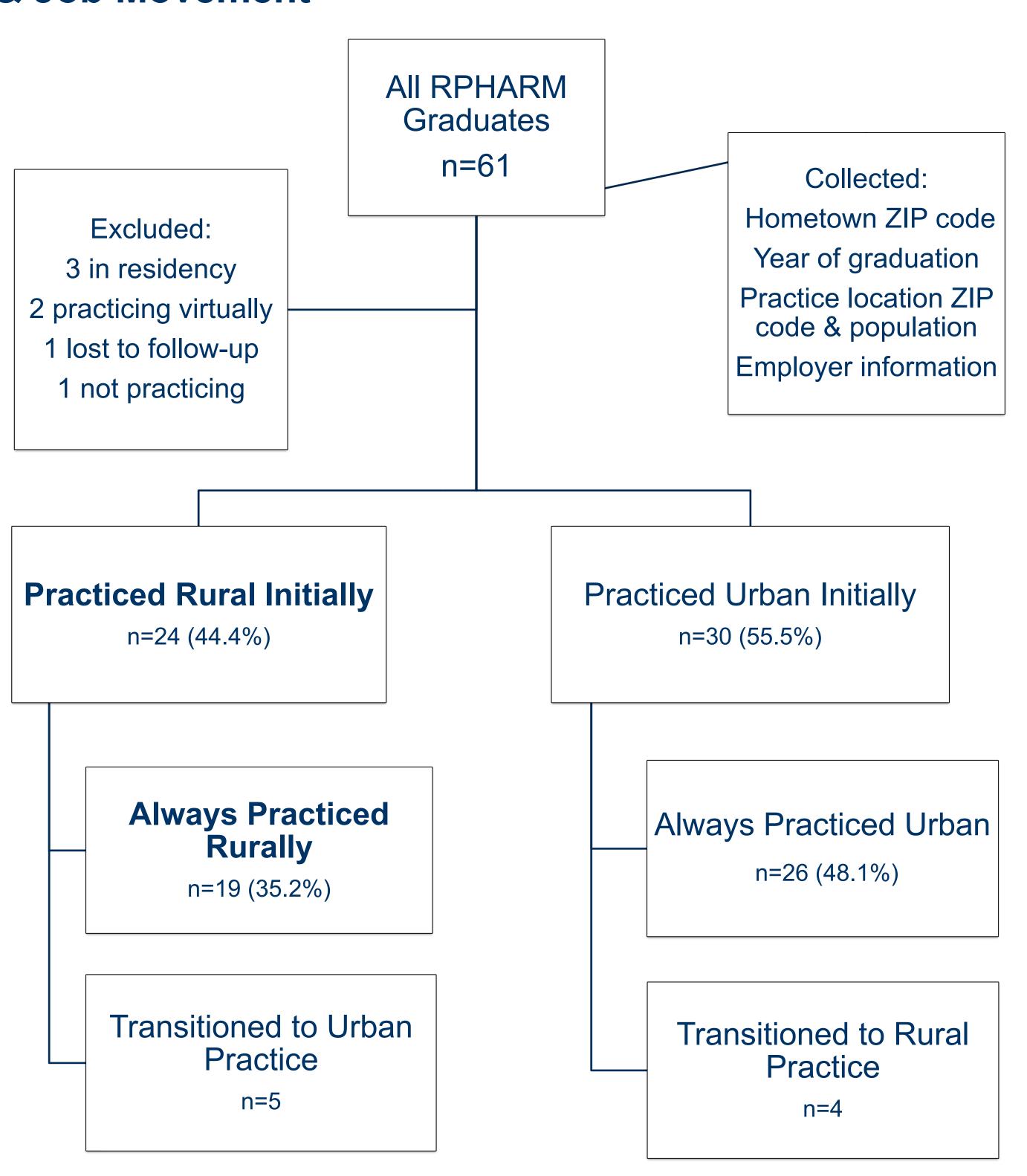
Non-metropolitan Core Based Statistical Areas9

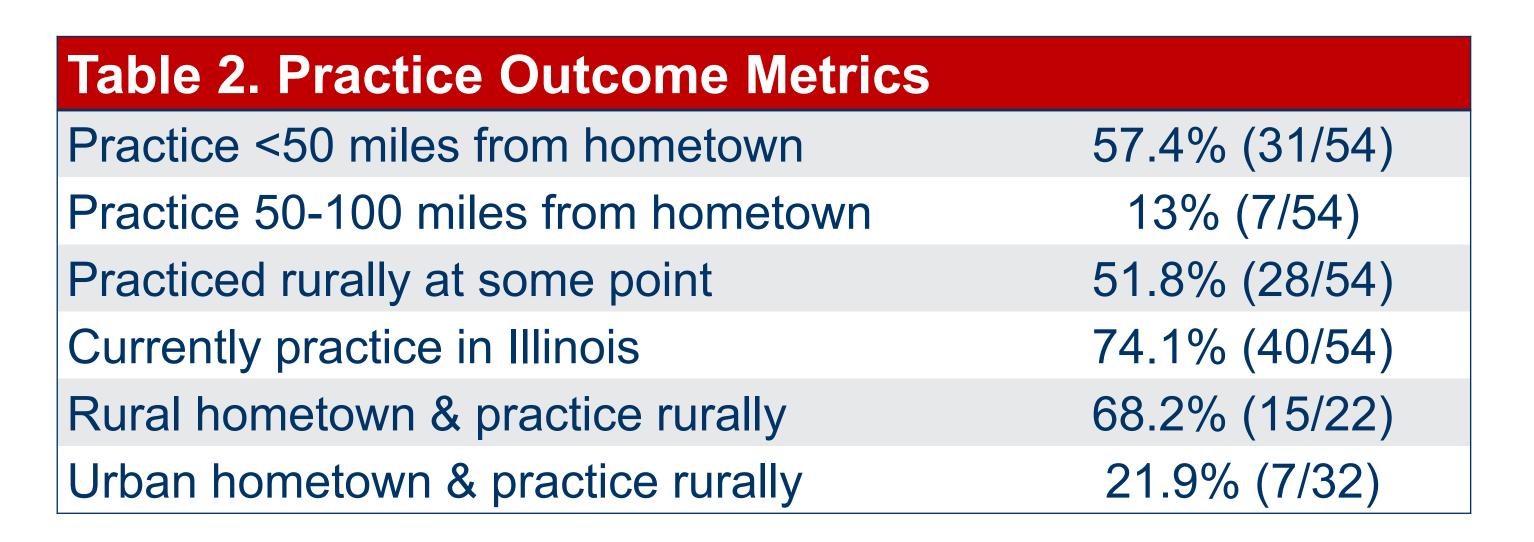
Population less than 50,000 people¹0

#### Outcomes

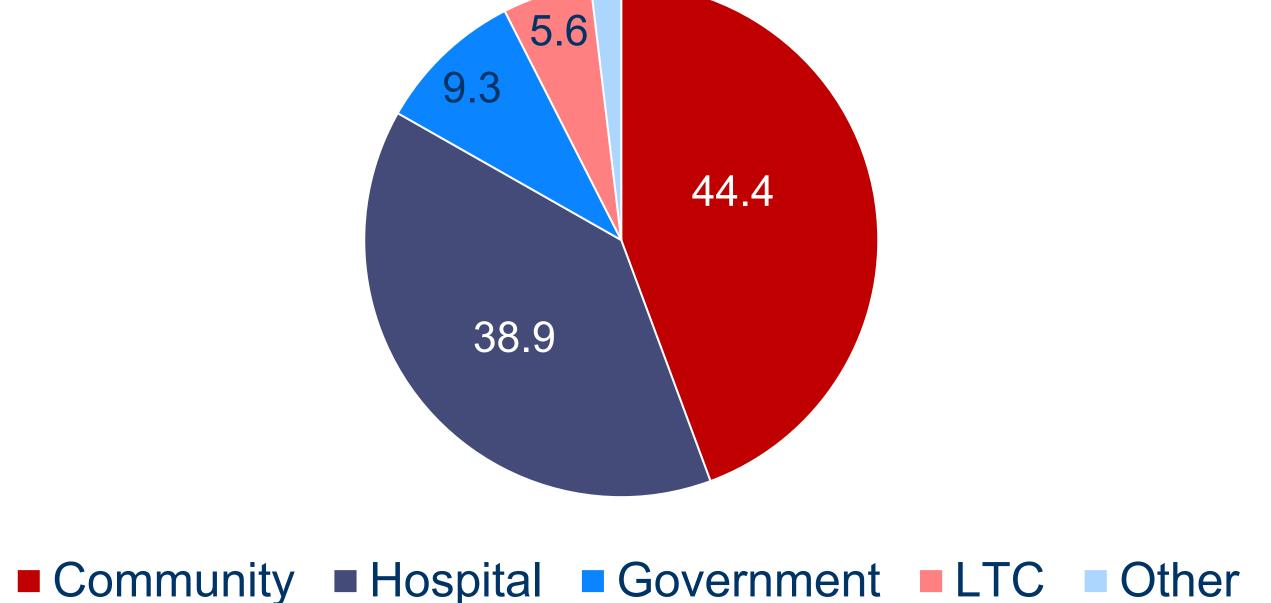
- RPHARM graduate data from 2014-2023 was included for those in physical practice locations (n=54).
- 40.7% (22/54) of RPHARM graduates were from rural hometowns.

# Figure 1. RPHARM Graduate Outcomes Assessment & Job Movement









64.8

Table 1. Practice Outcomes by Rural Definition				
	ZIP Code	FORHP ZIP	Core Based Statistical Areas (%)	Practice
	RUCA	Code		Location
	code	Designation		Population
	(%)	(%)		< 50,000 (%)
Rural	42.6	44.4	33.3	57.4

#### Conclusions

55.6

57.4

Not Rural

- It is rewarding that 35.2-57.4% of RPHARM graduates were practicing in rural locations.
- High rates of rural graduates returning to rural communities and urban graduates converting to rural pharmacy practice indicates RPHARM Program success.
- Most graduates remain in same type of community where they initially began practicing.
- Results suggest a high likelihood that graduates will practice pharmacy near their hometown (70.4% ≤ 100 miles), regardless of its rurality.
- Important to take rural background into account during recruitment of students into rural pharmacy training programs.

For more information contact: Heidi Olson at holson6@uic.edu References available upon request.



42.6