Usage of Tobacco Cessation Helpline (QUITNOW) in Rural New Mexico THE UNIVERSITY of NEW MEXICO vention Research Center Prevention & Population Sciences Abigail Velasquez, Theresa Cruz, Ph.D., Andrea Cantarero, B.S.E.H., Sally Davis, Ph.D.



Prevention Research Center, University of New Mexico

Abstract

New Mexico's QUITNOW program is an evidence-based method for increasing tobacco cessation. Although many efforts have been made to create and implement tobacco cessation interventions, research on the effectiveness of such programs in rural communities is limited. This study aims to address the following question: "To what extent are adults in rural communities engaging in the QUITNOW program compared with adults in urban communities?" Rates of QUITNOW use will be calculated for each zip code in New Mexico. Data from the US Census and the Behavioral Risk Factor Surveillance System (BRFSS) will be used for the denominator. Numbers of initial contacts made with the program from the QUITNOW data will be the numerator. Data from rural communities were compared with data from urban communities, statistically by *t*-testing. We found the initial contact rate to be significantly lower in rural communities. This research will inform development of a focus group to better understand barriers to QUITNOW use in rural communities. It will also inform future interventions to increase use of QUITNOW in those communities. Tobaccofree living is an essential component of better health, and our findings regarding disparities associated with residence in a rural community will help to address gaps in our knowledge of this issue.

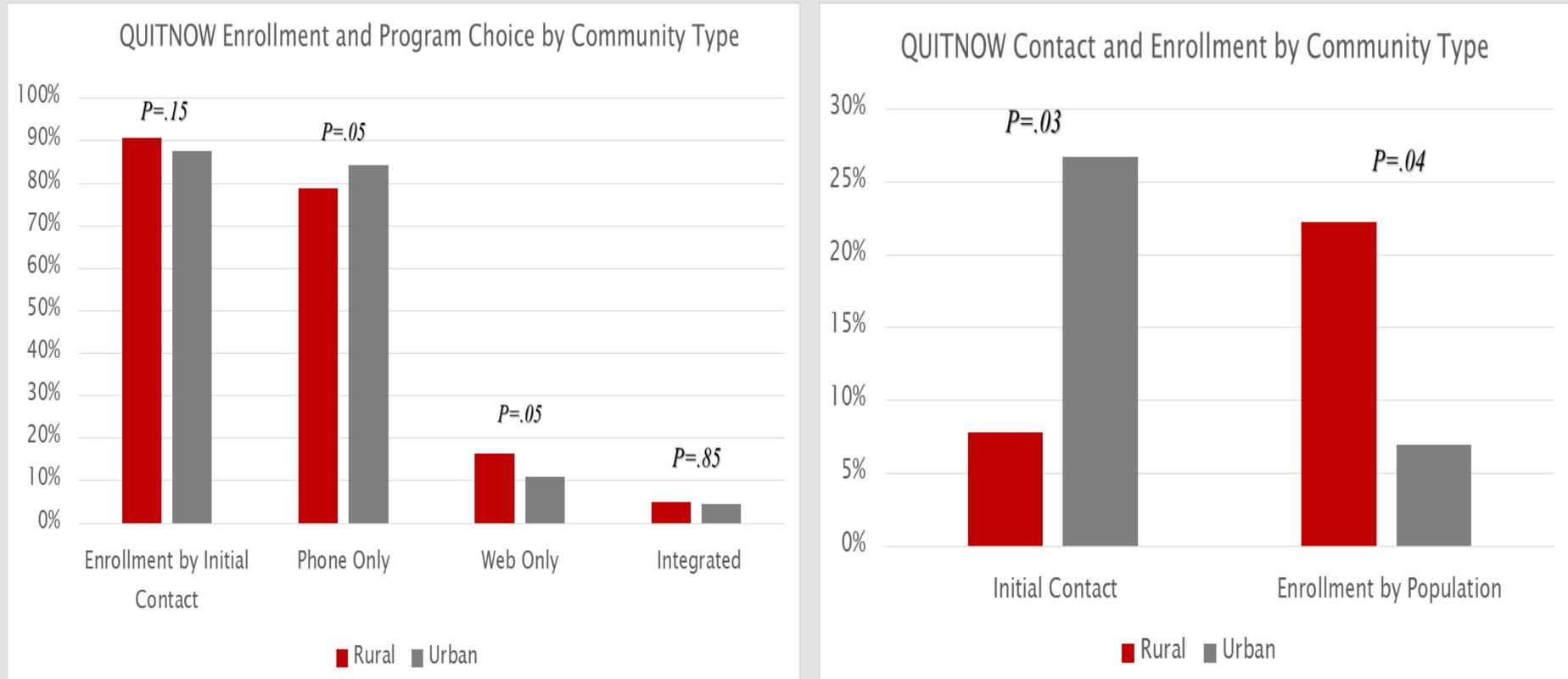
Background

- 70% of adult smokers in the US want to guit
- Telephone-based interventions are recommended
- There is limited research on the effectiveness of tobacco cessation programs in rural communities
- Data obtained from any city are typically generalized to fit all communities
- Rural populations with high rates of poverty tend to have the most prevalent health disparities as a result of the oppression imposed by society
- By partnering with rural communities, researchers can:
- Add to the understanding of what promotes tobacco use
- Add to the understanding of tobacco cessation in rural communities
- Work with communities to implement interventions that lead to a healthier, tobacco-free society

Materials/ Meth	nods
Literature Review	 Conducted to identified to to the total to the total to the total to the total tota
Data Collection Materials	 Adults, 18+ years, b tobacco users and c later) by county type (RUCA) codes (2010) QUITNOW by postal
Data Organization	 Combined data on E determined rurality, users, applied QUITI
Statistical Analysis	 For statistical analy appropriate) were us Probability of rest contact compared Probability of tob of those who made Enrollment type p
Results	

				 Among cigarette
Tobacco Use in New Mexico			smokers	
	Urban Areas (49)	Rural Areas (132)	Statewide (367)	 <u>56%</u> of urban residents
Cigarettes	20.6%	25.5%	20.5%	• <u>61%</u> of rural
Smokeless	3.5%	7.2%	4.4%	residents
* Numbers in parenth	nesis signify total numb	er of zip codes		• <u>58%</u> of NM have tried to quit





ify previous studies regarding n rural areas within the United States

by zip code tabulation area (ZCTA),¹ cessation attempts (years 2011 and e,² Rural Urban Commuting Area 0),³ and initial contact with zip code (2012-2014)⁴

Excel by postal zip code or ZCTA, , applied percentages of tobacco NOW data as numerator

ysis, *t*-tests (one or two-tailed as used to determine:

sidents in rural zip codes making a ed with residents in urban zip codes bacco users enrolling in QUITNOW ide an attempt to reach the program preference

Limitations

- change monthly

Conclusions

- program or being aware of it

Future Directions

- communities
- rural communities

References

- estimates.
- 2015.

Acknowledgements



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• BRFSS data by county (metropolitan or rural) did not account for individual communities within county • QUITNOW data were not age-adjusted • ZCTAs are different from USPS zip codes, which can

• Rural residents are not contacting the QUITNOW program, but when they do, they are just as likely to enroll as urban residents There may be barriers to reaching the QUITNOW

• Develop focus group discussion guide to better understand barriers to cessation in rural

Create interventions to increase use of QUITNOW in

1. U.S. Census Bureau. American community survey 5-year

http://factfinder.census.gov/faces/nav/jsf/pages/community_fac ts.xhtml. Updated 2013. Accessed June 23, 2015. Centers for Disease Control and Prevention. BRFSS prevalence & trends data. http://www.cdc.gov/brfss/brfssprevalence/index.html. Updated June 23, 2015. Accessed June 23, 2015. 3. Rural Health Research Center. RUCA NM. Accessed June 23,

4. Tobacco Use Prevention and Control Program. QUITNOW 2012 to 2014. Updated July, 16, 2015. Accessed July 29, 2015.