# **ARE MENTHOL SMOKERS USING STATE QUITLINES? FINDINGS FROM MINNESOTA**

Joanne D'Silva, MPH,<sup>1</sup> Rebecca K. Lien, MPH,<sup>2</sup> Randi B. Lachter, MPH,<sup>1</sup> Paula A. Keller, MPH<sup>1</sup> <sup>1</sup>ClearWay Minnesota; <sup>2</sup>Professional Data Analysts, Inc.

# INTRODUCTION

- Increasing the reach of evidence-based cessation services is a long-standing public health priority.
- **Reach ratios** can be used to gauge whether quitline services are reaching smoker subgroups.<sup>a</sup>
- Reach ratios are a relative comparison of the proportion of a subgroup in a quitline to the proportion of the same subgroup in the larger population of tobacco users.
- Little research has examined whether quitline services are reaching menthol smokers, who may have increased difficulty quitting relative to non-menthol smokers.
- The purpose of this study was to understand whether quitline services are reaching menthol smokers.

# METHODS

Sample:

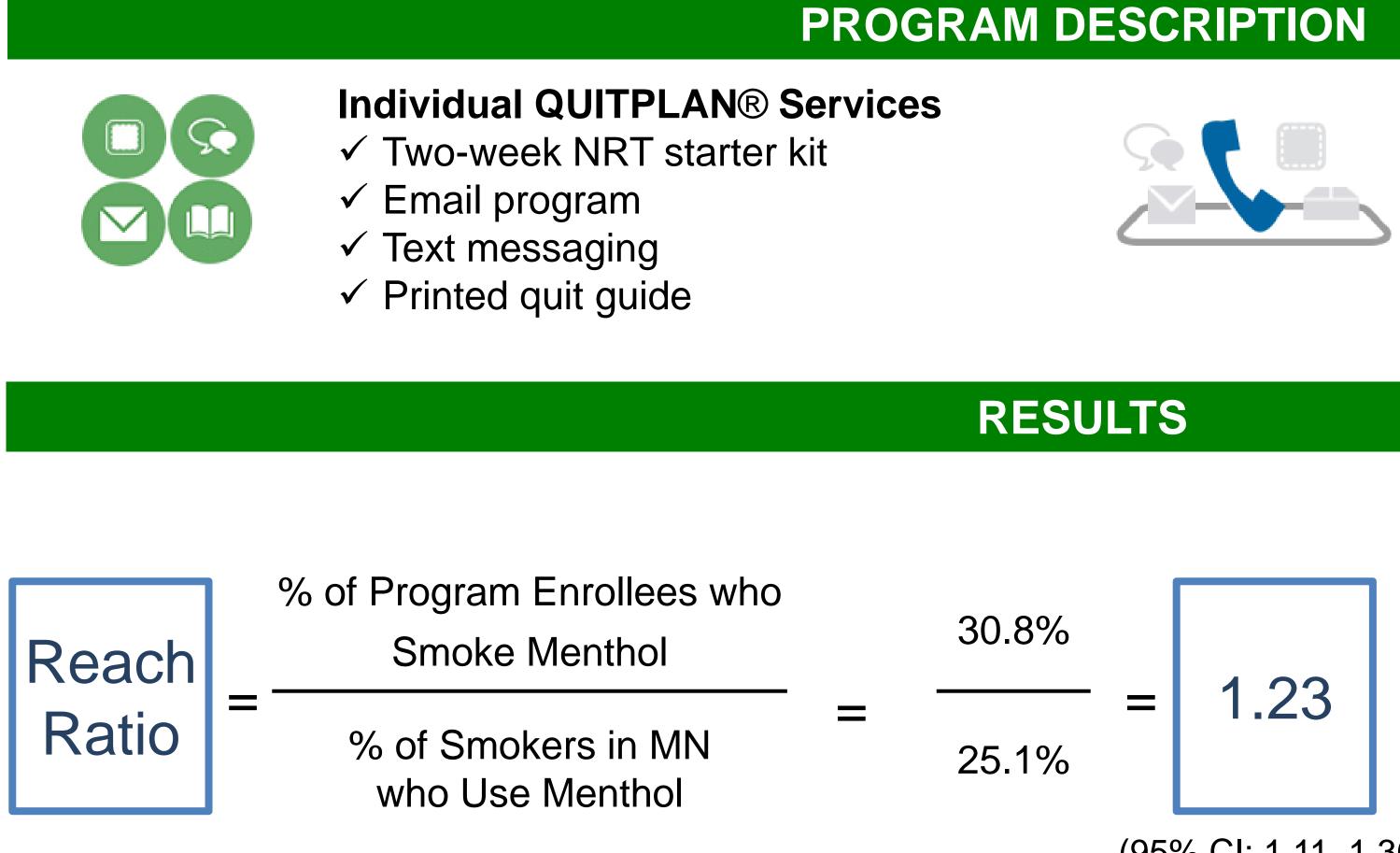
QUITPLAN® Services smokers who enrolled between May and October 2017 (n=5235)

Measures:

- Usual cigarette type: menthol vs. non-menthol
- Demographics, smoking-related and utilization characteristics

Analyses:

- Reach ratio: Service enrollees (numerator); 2014 Minnesota Adult Tobacco Survey (denominator); confidence intervals were estimated using the Katz log method.
- Data were analyzed using chi-square tests and t-tests; Bonferroni correction for multiple tests.



<b>Characteristics of Program Enrollees</b>	Utili
<ul> <li>Menthol smokers were more likely than non-</li> </ul>	• Me
menthol smokers to (p<.005):	sm
<ul> <li>Be younger (average age 40.6 vs 45.4 years)</li> </ul>	VS
• Be female (64.1% vs 57.7%)	• No
<ul> <li>Be African American (21.0% vs 2.2%)</li> </ul>	sn
<ul> <li>Live in the Twin Cities metro area (62.7% vs</li> </ul>	•
51.5%)	•
<ul> <li>Live in neighborhoods with lower median home</li> </ul>	•
value (\$171K vs \$178K)	
<ul> <li>Smoke fewer cigarettes per day (15.4 vs 17.0)</li> </ul>	(

ClearWay<sup>ss</sup> MINNESOTA

### **QUITPLAN® Helpline**

- ✓ Phone counseling plus NRT
- ✓ Integrated email program
- Integrated text messaging
- ✓ Printed quit guide

(95% CI: 1.11, 1.36)

Reach Ratio = 1 subgroup is **proportionately** represented in cessation program population

**Reach Ratio < 1** subgroup is under-represented in cessation program population

Reach Ratio > 1 subgroup is over-represented in cessation program population



## lization Characteristics

lenthol smokers were more likely than non-menthol mokers to enroll in the text messaging program (28.7%) s 25.4%; p=.013)

lo significant differences were found between menthol mokers and non-menthol smokers on:

- Service type (Individual Services, Helpline)
- Registration mode (online, phone)
- Program utilization (number of counseling calls,
- provision of NRT or the quit guide, enrollment in the email program)



# CONCLUSIONS

- The reach ratio >1 for menthol smokers indicates that **menthol smokers are over**represented, indicating that Minnesota's
- quitline is reaching menthol smokers.
- Consistent with previous research, menthol smokers were more likely to be younger, female, African American, and live in an urban area than non-menthol smokers.
- Few significant differences were found in how menthol smokers used cessation services compared to non-menthol smokers.

### Implications

- State quitlines should consider assessing menthol use at intake in order to monitor reach of services and promotional strategies directed at menthol smokers.
- Future studies combining reach ratios and quit outcomes can help states adapt services to address the unique challenges presented by menthol use and help menthol smokers quit.

### Reference

<sup>a</sup> Campbell, H. S., Baskerville, N. B., Hayward, L. M., Brown, K. S., & Ossip, D. J. (2013). The Reach Ratio—A New Indicator for Comparing Quitline Reach into Smoking Subgroups. *Nicotine & Tobacco Research*, 16(4), 491-495

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