

Effective Screening and Identification of Women At- Risk for Alcohol Use While Pregnant with in WIC Clinics

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Project History & Background

- 2008
 - Division Alcohol and Drug Abuse, Department of Human Services (currently the Prevention Program in the Department of Social Services) USD Center for Disabilities, and Mountain Plains Evaluation, LLC with support for the National Center on FASD begin a screening and brief intervention program for pregnant women
 - Began in 5 WIC clinics and expand to 10 WIC clinics in 2011

Summary of Screening & Brief Intervention in WIC Clinics

- Developed based on the Findings of O'Connor and Whaley
 - Brief Intervention for Alcohol Use by Pregnant Women
 - American Journal of Public Health, Feb. 2007; 97(2):252-258
- Incorporate an alcohol screening assessment into the intake/certification process for pregnant women accessing WIC services
- Women identified as “at-risk” are provided a 10-15 minute brief intervention
 - education on the risks of alcohol use while pregnant
 - strategies to reduce/eliminate alcohol use
 - concludes with setting a goal for reducing/eliminating alcohol use
 - uses the principles of motivational interviewing
 - referral of women that continue to drink while pregnant to alcohol and drug counseling and treatment services

Current WIC Sites

Aberdeen

Belle Fourche

Huron

Mobridge

Pierre

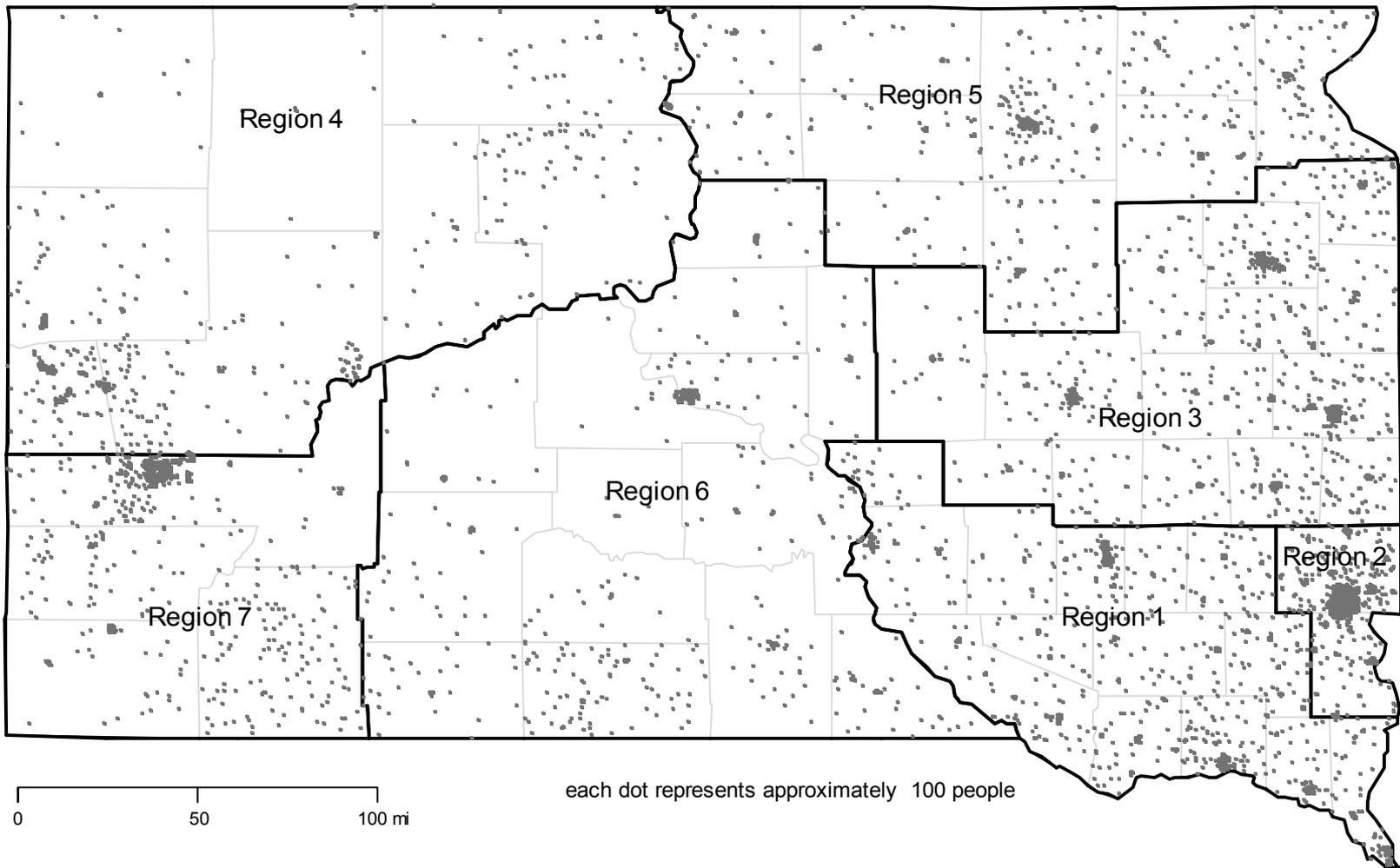
Rapid City

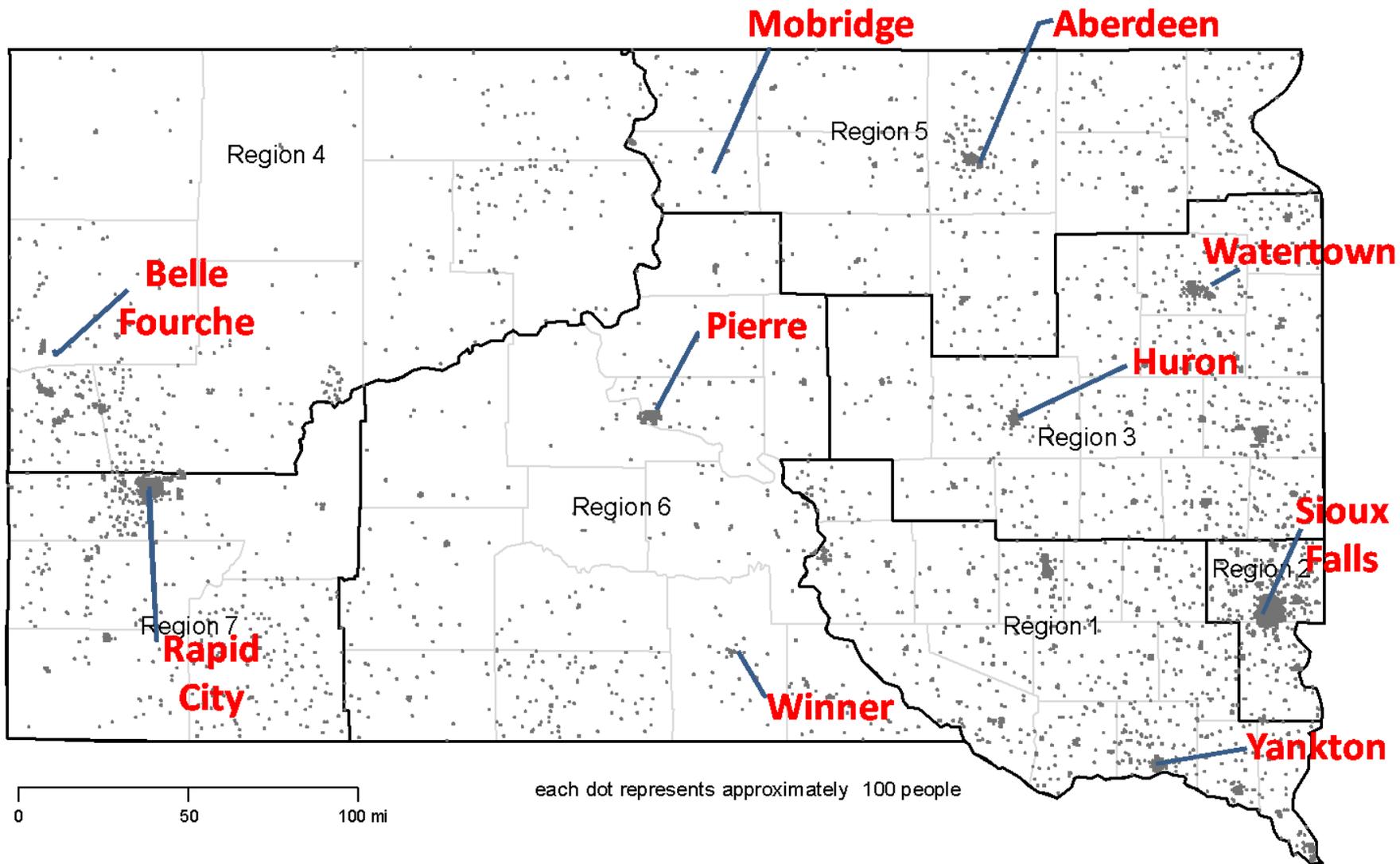
Sioux Falls

Watertown

Winner

Yankton

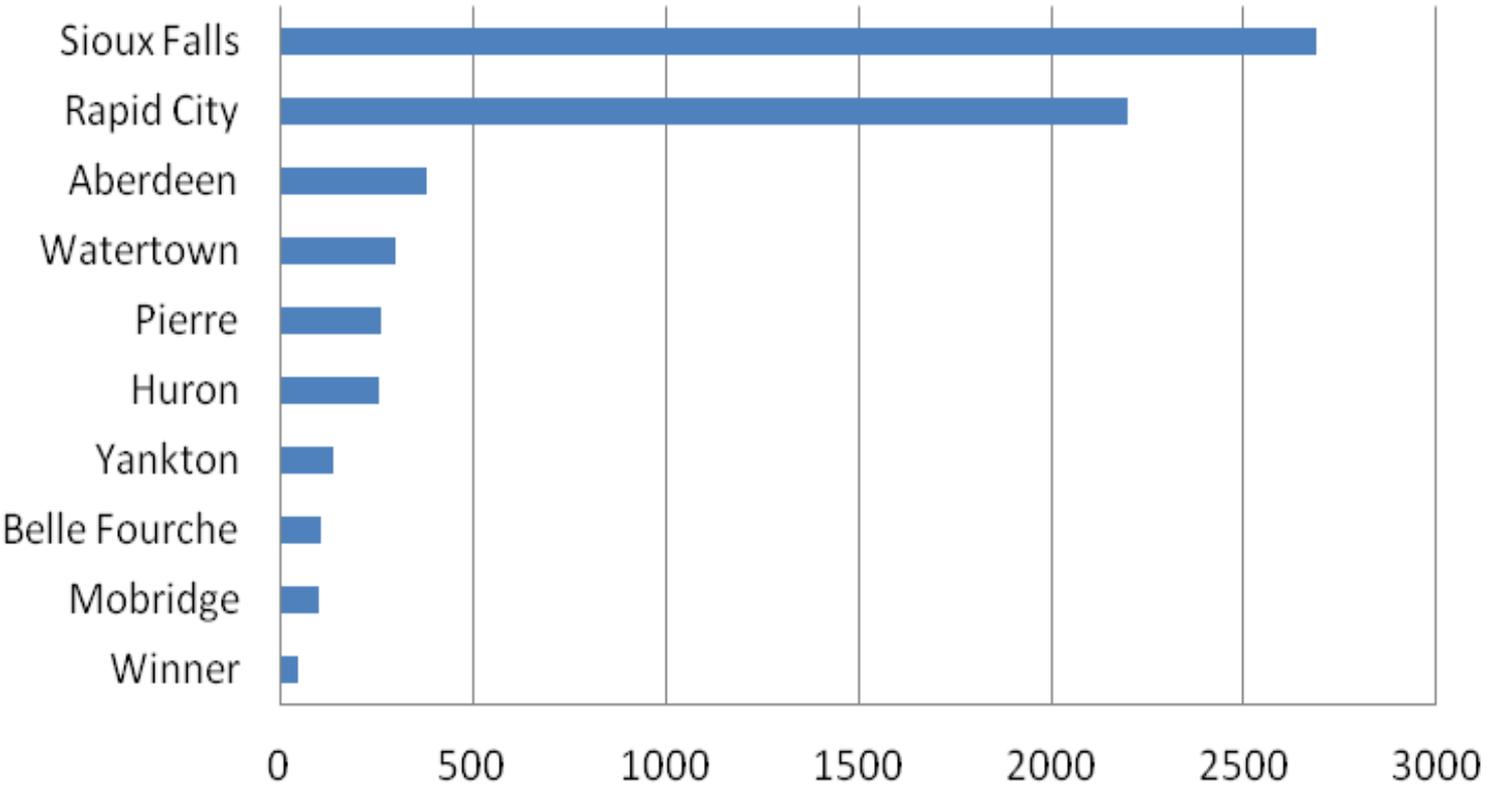




Summary of Data Results

- The following slides provide a summary of the results of the project to date
- As of the end of February 2012,
 - 6,645 women screened
 - 2,240 identified as eligible for brief intervention
 - 924 participated in brief intervention

Frequency by Site



Education

Never attended school

6th grade or less

7th-8th grade

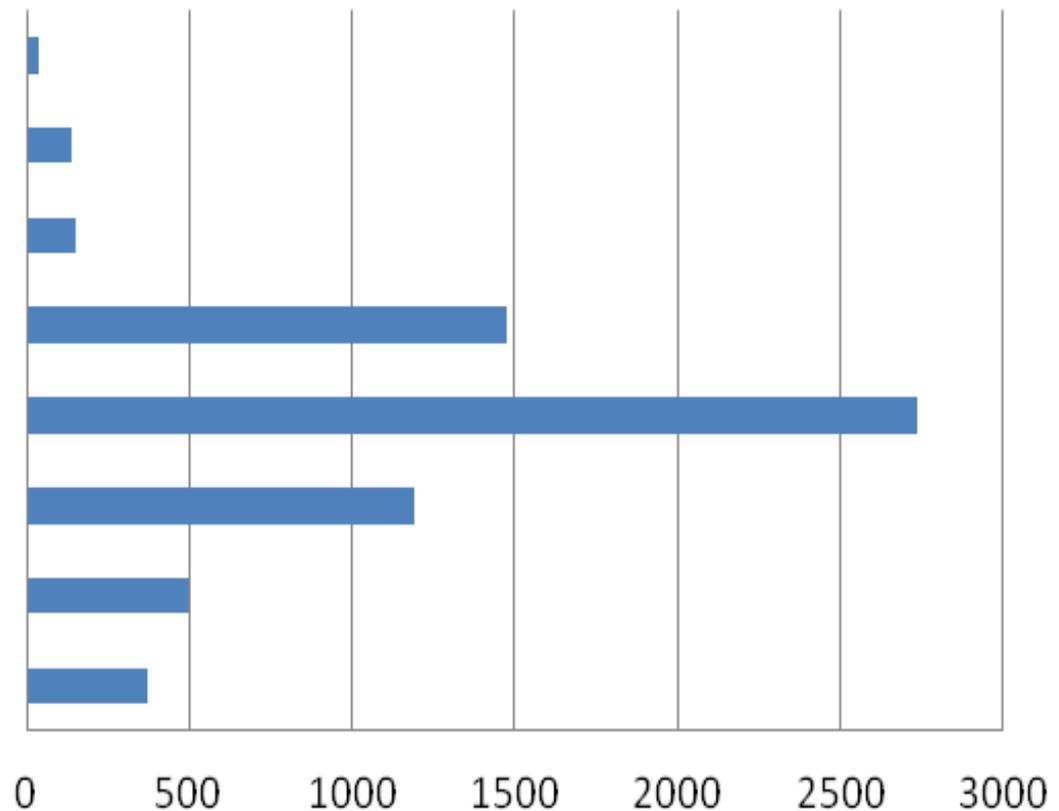
9th-11th grade

12th grade/GED

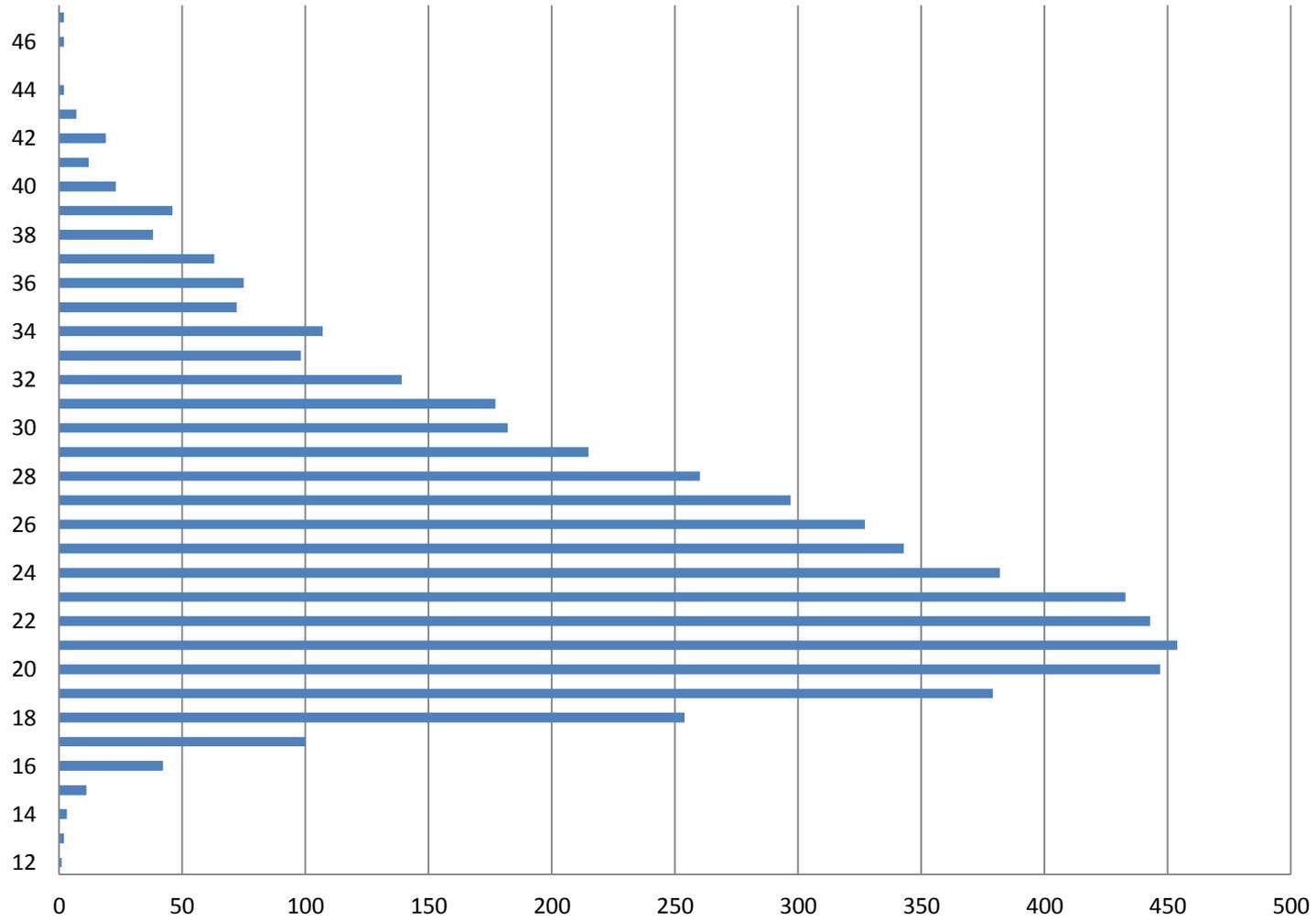
1-2 years ft college

2-4 years ft college

4+ years ft college

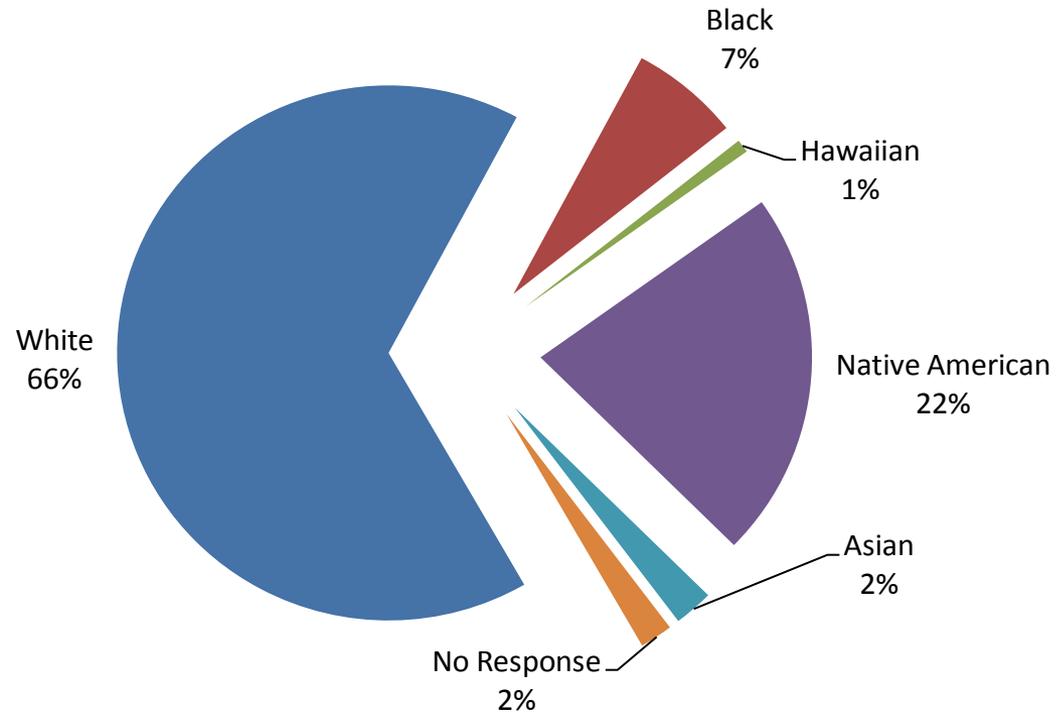


Approximate Age of Participants

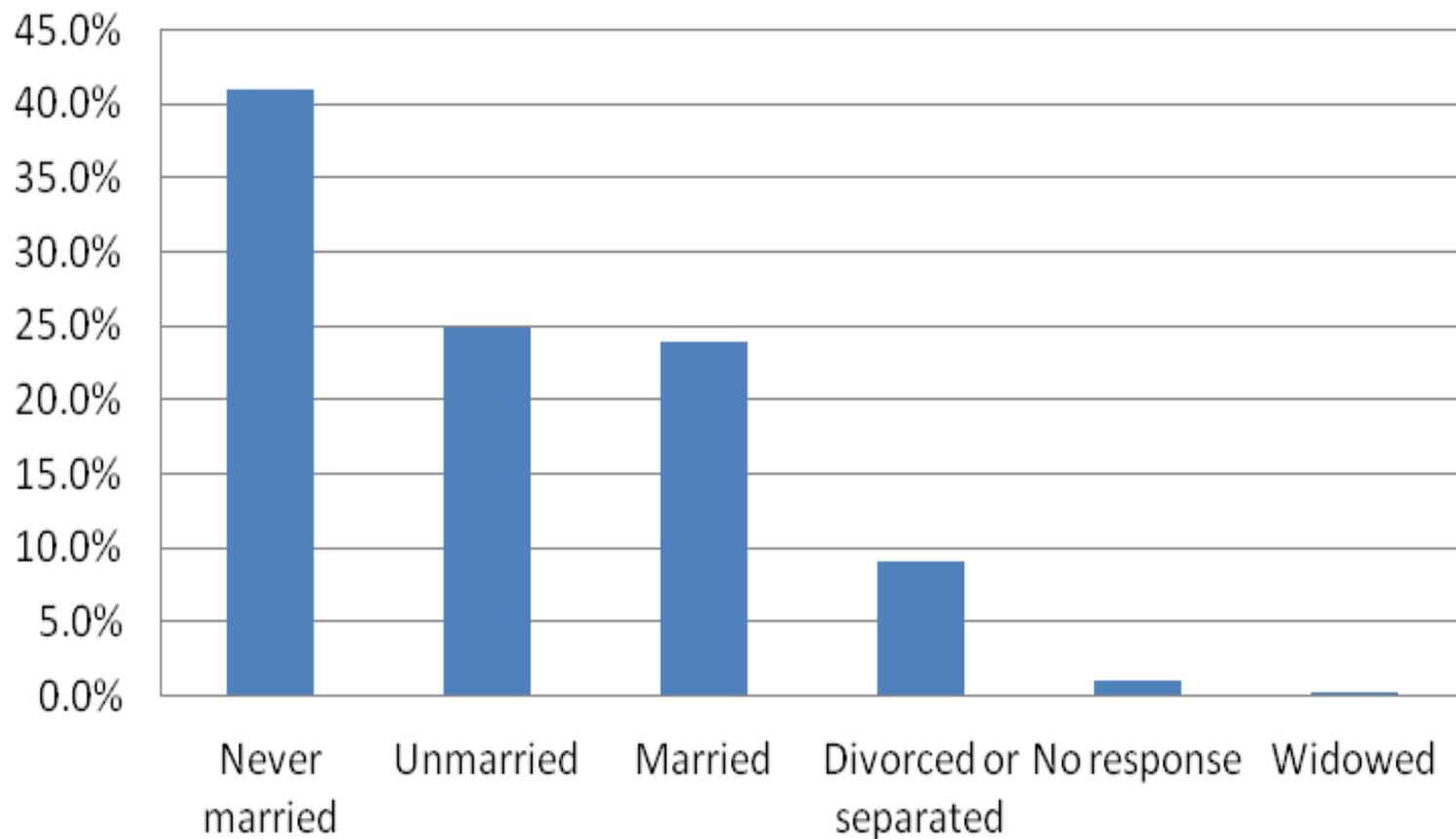


$\mu = 25$
 $\sigma = 5.4$

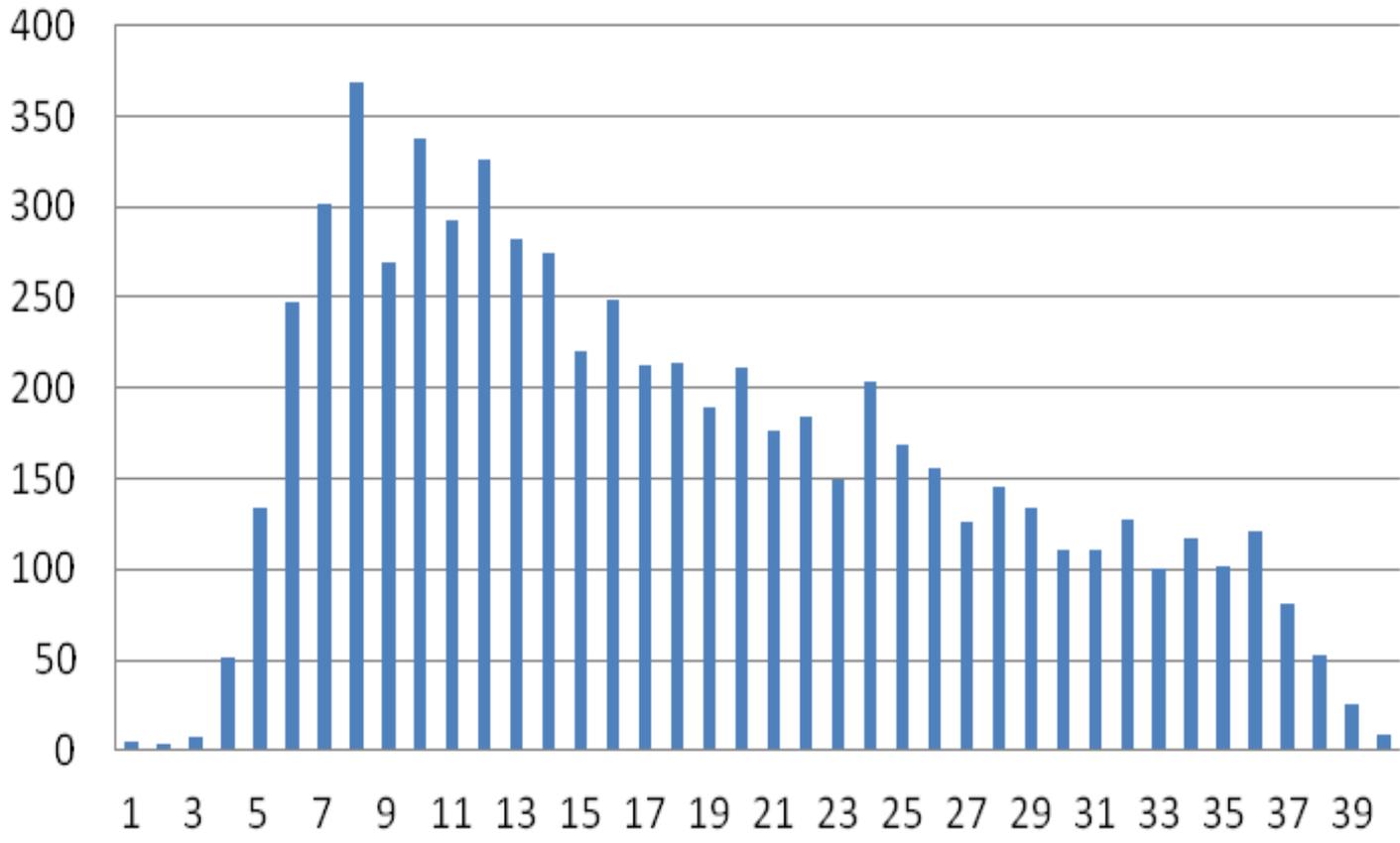
Race of Participants



Marital Status



Weeks Pregnant



Screening Questions

Participants are recommended for the SBIRT based on either:

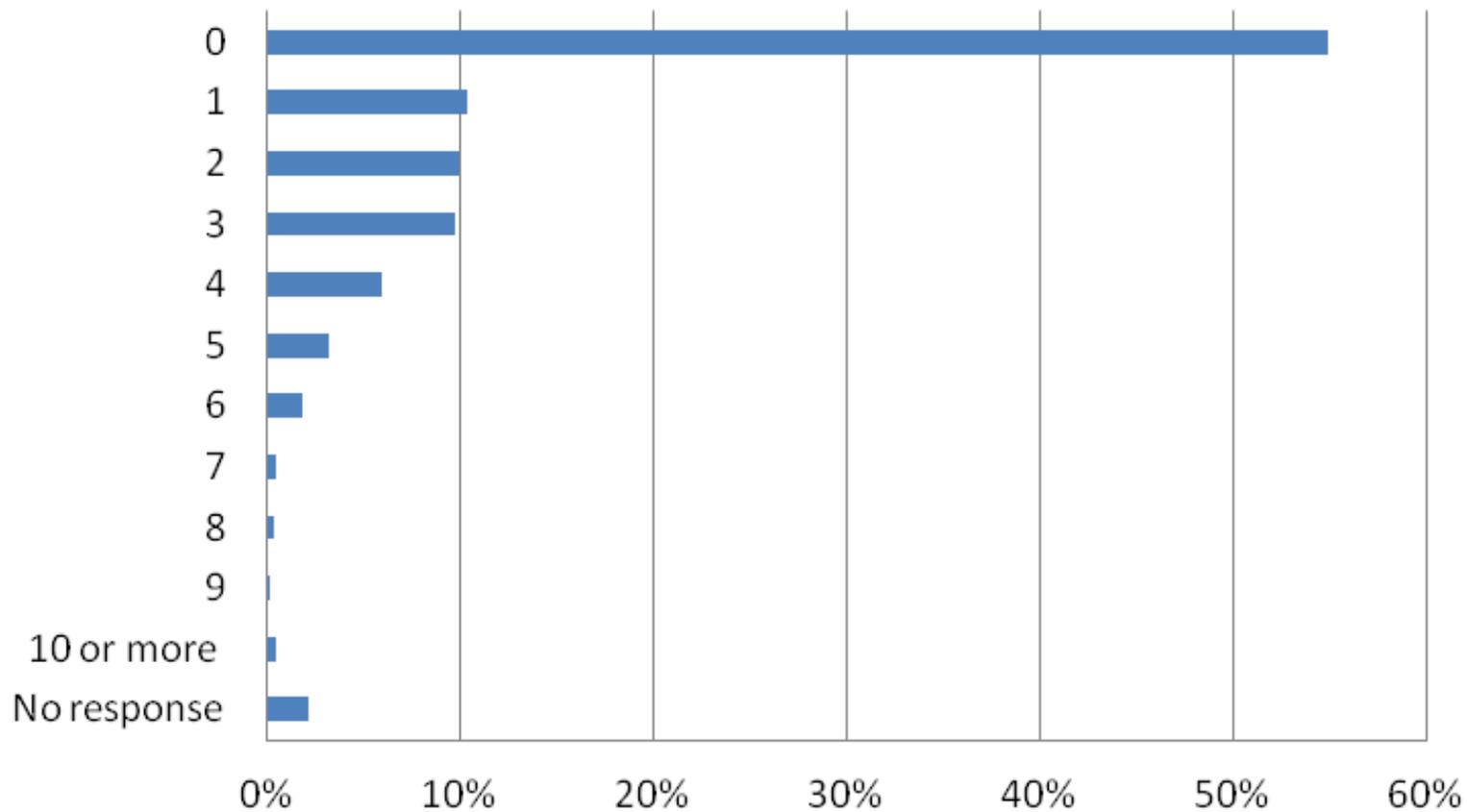
1. Drinking in past 30 Days
2. T-ACE Score of 2 or more
 - Tolerance: *How many drinks does it take to make you feel high? (3 or more drinks = 2 points)*
 - Annoyed: *Have people annoyed you by criticizing your drinking? (1 point)*
 - Cut-Down: *Have you ever felt you ought to cut down on your drinking? (1 point)*
 - Eye-Opener: *Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover? (1 point)*

Question 6 is concerned with the number of days in the past 30 days that a woman drank. By focusing on qualification for brief intervention, we break data into two categories based on having 0 days reported or greater than 0 days reported.

Q6. During the past 30 days, on how many days did you drink one or more drinks of an alcoholic beverage?

Q6	Percentage
0 days	95.2
1 or more days	4.8

How many drinks does it take to make you feel high?

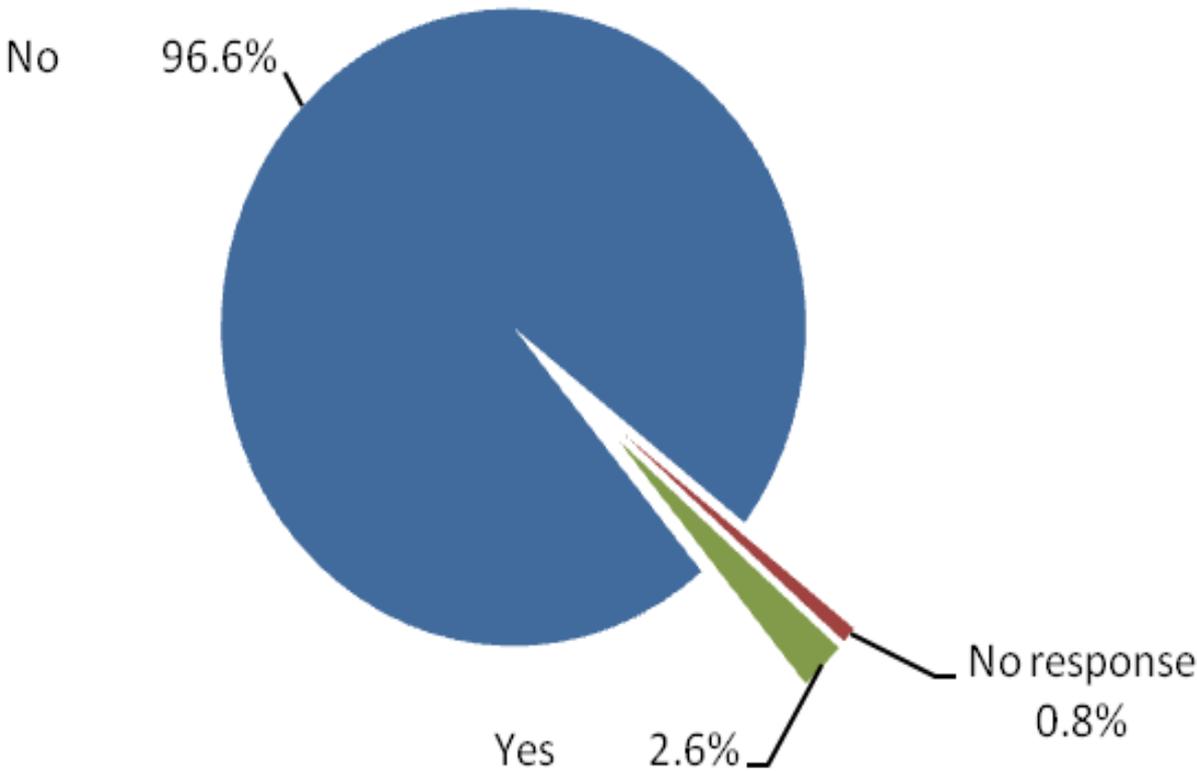


Question 7 is concerned with the number of drinks that a takes for a subject to feel high. Here we break the data into categories based on those reporting less than 2 and those that report 2 or more.

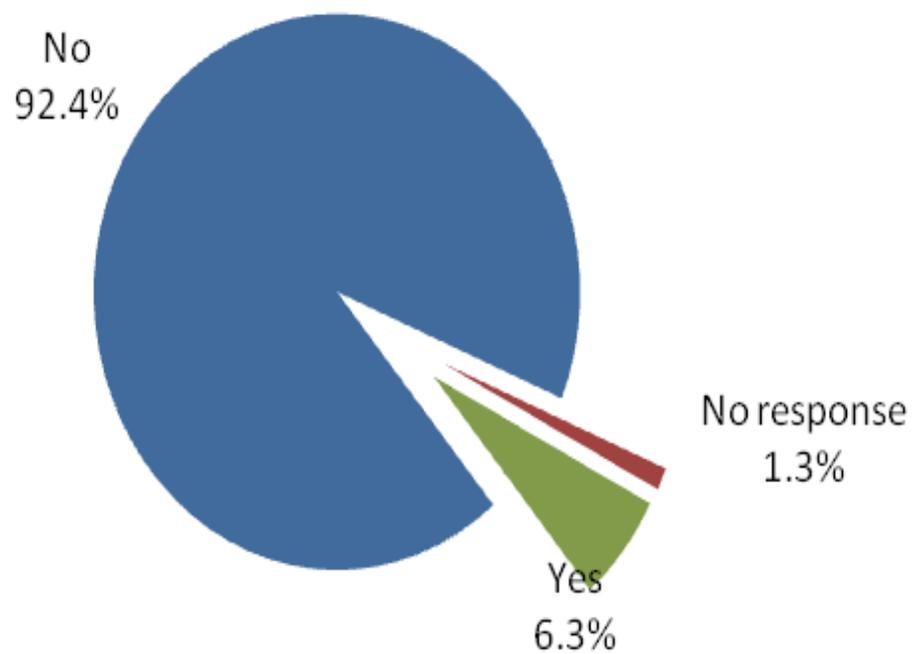
Q7. How many drinks does it take to make you feel high?

Q7	Percentage
One or less	66.8
2 or more drinks	33.2

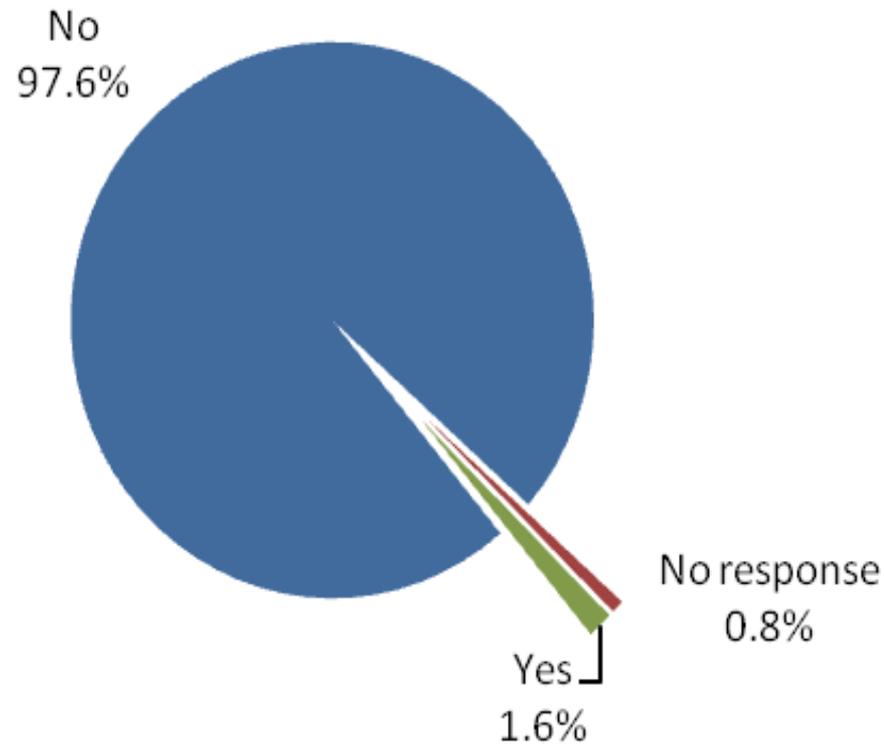
Have people annoyed you by criticizing your drinking?



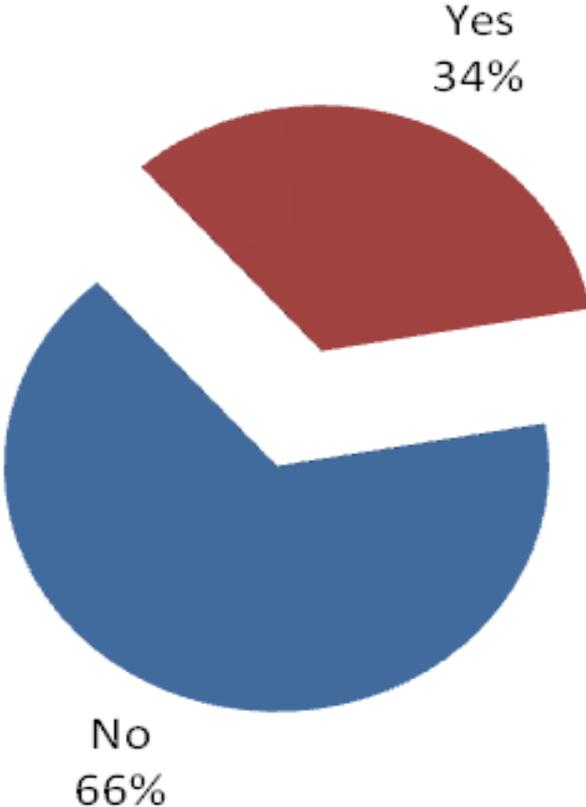
Have you ever felt you ought to cut down on your drinking?



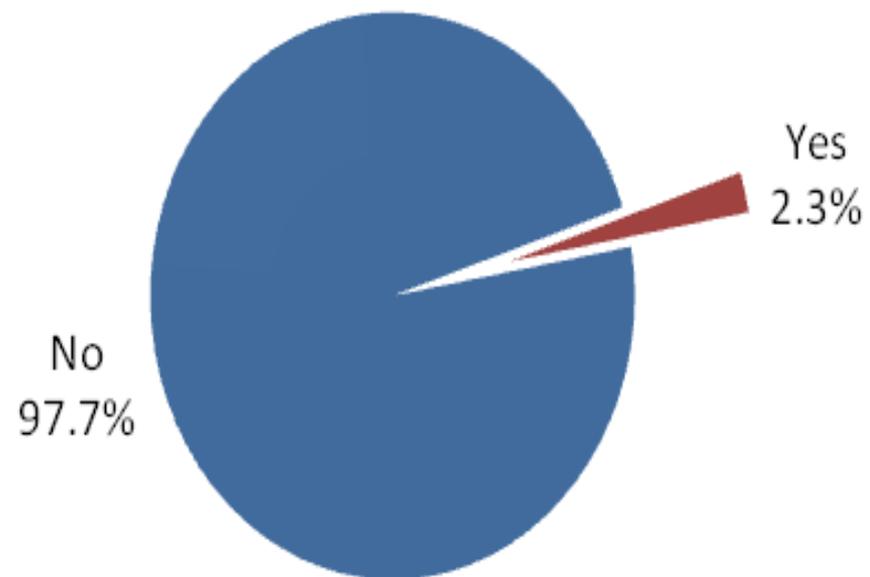
Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover?



Did client qualify for Alcohol Brief Intervention based on T-ACE?



Did client qualify for Alcohol Brief Intervention based on ACE?

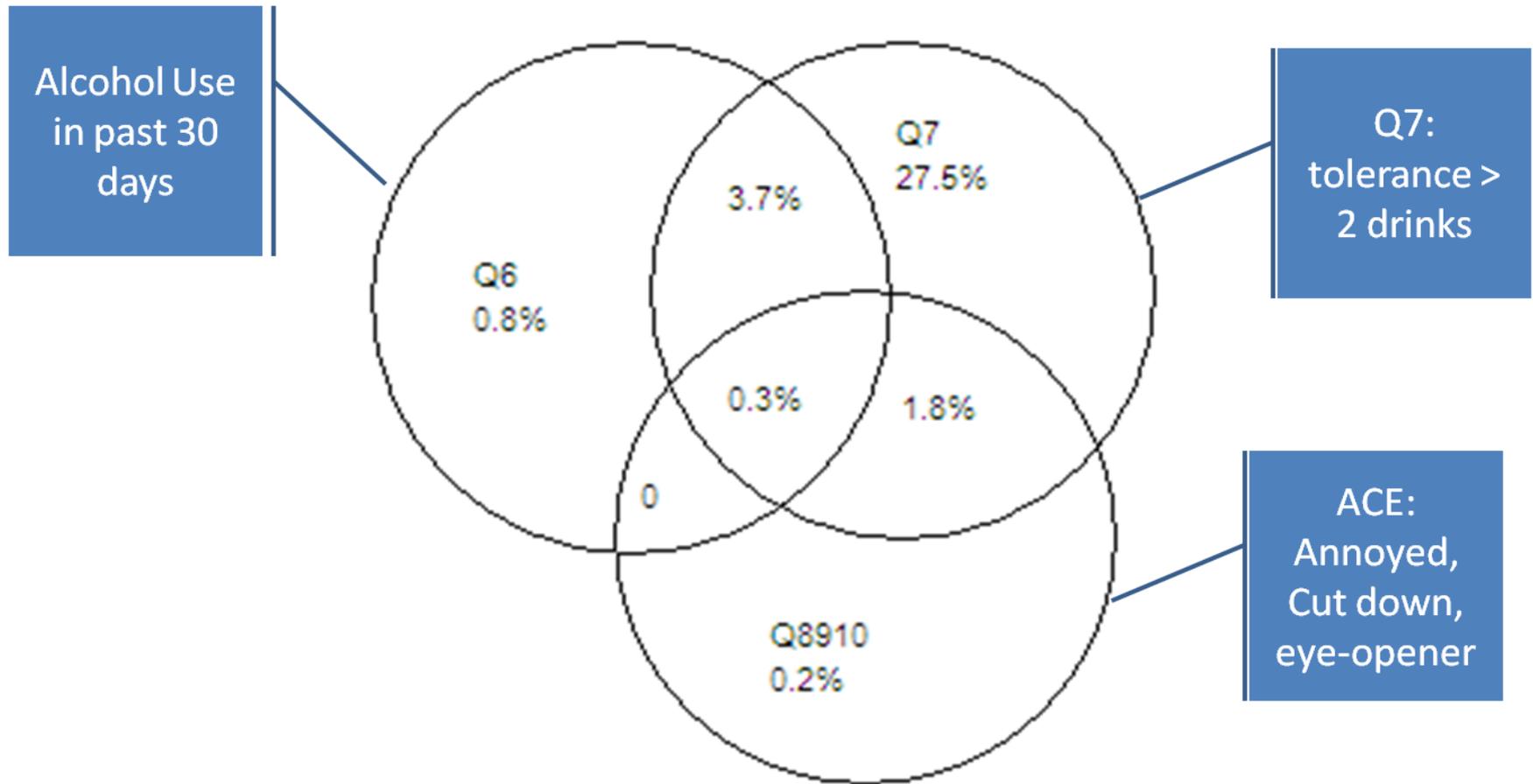


Of the subjects with a TACE of 2 or greater, we see that question 7 had a much greater contribution to qualify these subjects.

TACE \geq 2	
Q7 \geq 2	2097/2112 = 99.3%
Q8 + Q9 + Q10 \geq 2	145/2112 = 6.9%

As expected we see that question 7 identifies many more women for a brief intervention that will later choose to not participate.

Analysis of Screening Questions



Challenges

- Two primary challenges have been identified
 1. Question 7 was screening in a large percent of women who stopped drink before they were pregnant or as soon as they knew they were pregnant and are unlikely to drink during the remainder of their pregnancy
 2. Engaging women in the brief intervention

Continued Need to Reach Women At-Risk

- While the project is concluding, there is still a need to reach those women that continue to be at-risk for drinking alcohol while pregnant.
- Project data indicates that approximately 3-6% of pregnant women continue to be at-risk of drinking while pregnant

Transition Plan

- Integration of Key Questions (ACE questions) into the WIC MIS system
- Avoid over identifying women who already stopped drinking
 - Have people annoyed you by criticizing your drinking?
 - Have you ever felt you ought to cut down on your drinking?
 - Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover?

WIC MIS Questions

1. In the 3 months before you got pregnant, how many alcoholic drinks did you have in an average week?	
Did not drink	Brief intervention not recommended
Number of drinks per week (1-20)	If number in text box is greater than 5, consider brief intervention
21 or more drinks per week	Brief intervention recommended and possibly a referral
Drank, but quantity unknown	
Unknown or refused	Look at answer patten to other alcohol questions

1. Tell me about any alcohol use during your pregnancy.	
Yes, before aware of pregnancy	Brief intervention not recommended
Yes, after aware of pregnancy, but not currently	Brief intervention and possibly a referral
Yes, currently	Brief intervention and referral
None	Brief intervention not recommended

ACE Questions (added to WIC MIS)

1) Have people annoyed you by criticizing your drinking?	If a response of “yes” is given for two or more to the three questions to the left, then give a brief intervention and referral.
2) Have you ever felt you ought to cut down on your drinking?	
3) Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover?	

Transition Plan (continued)

- Training Modules
 - Brief Intervention
 - Process Flow Chart
 - Referrals
 - Motivational Interviewing
 - FASD 101

Discussion & Questions

Thank You

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