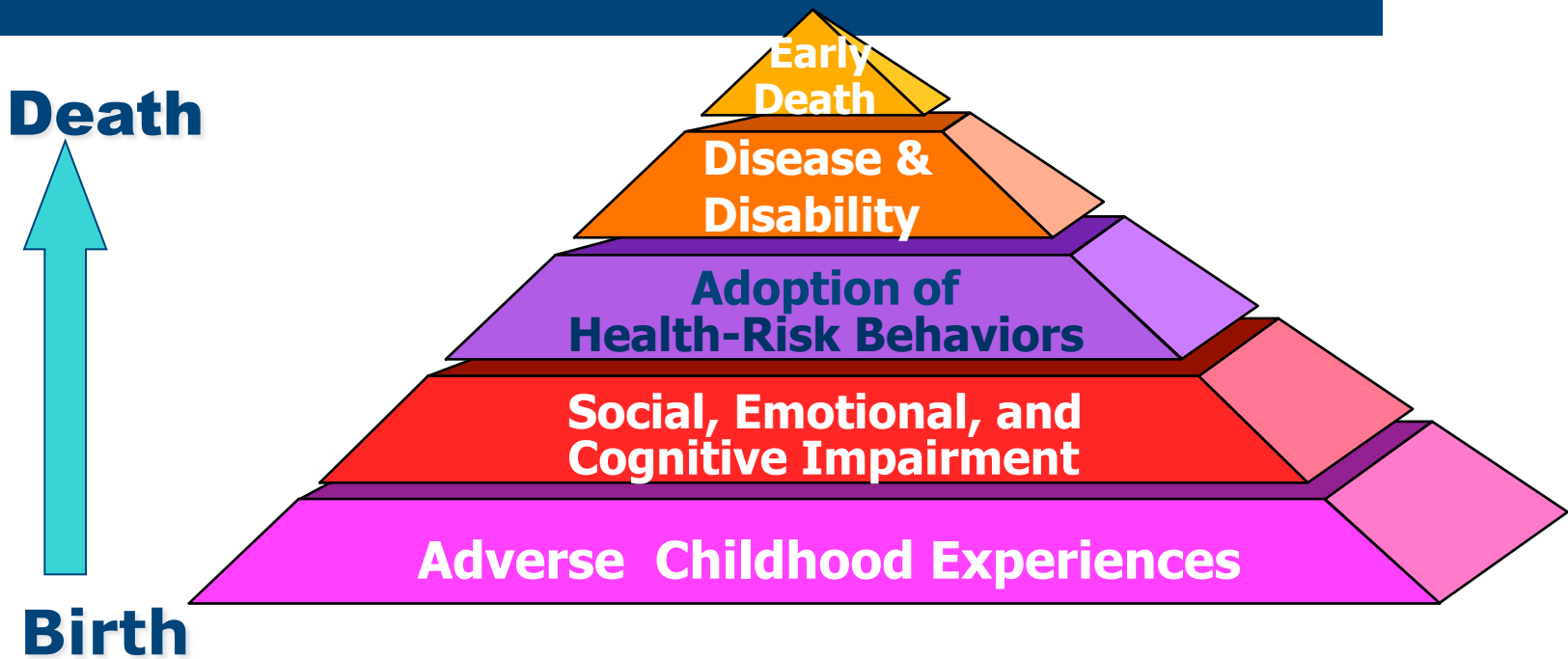


# **Adverse Childhood Experiences (ACE)**

## **Results of Lake County 2009-2010 Survey**

Ferron & Associates for  
Children's Council of Lake County  
May 19, 2010

# The True Nature of Preventive Medicine (Dr. Vincent J. Felitti, MD)



Mechanisms By Which  
Adverse Childhood Experiences  
Influence Adult Health Status

# Surveys Completed

Total of 479 responses from Lake County residents:

- 310 written surveys completed (65%)
  - LFRC 148
  - AODS 83
  - CWS 47
  - New Beginnings 13
  - Redwood Children's Services 12
  - Other 7
- 169 online survey responses (35%).

# Results of ACE Survey

- Demographics including age, gender, ethnicity, marital status, number of children in home, employment status, education level, medical home, health insurance and zip code
- Chronic health conditions and behavioral issues
- 10 ACE questions

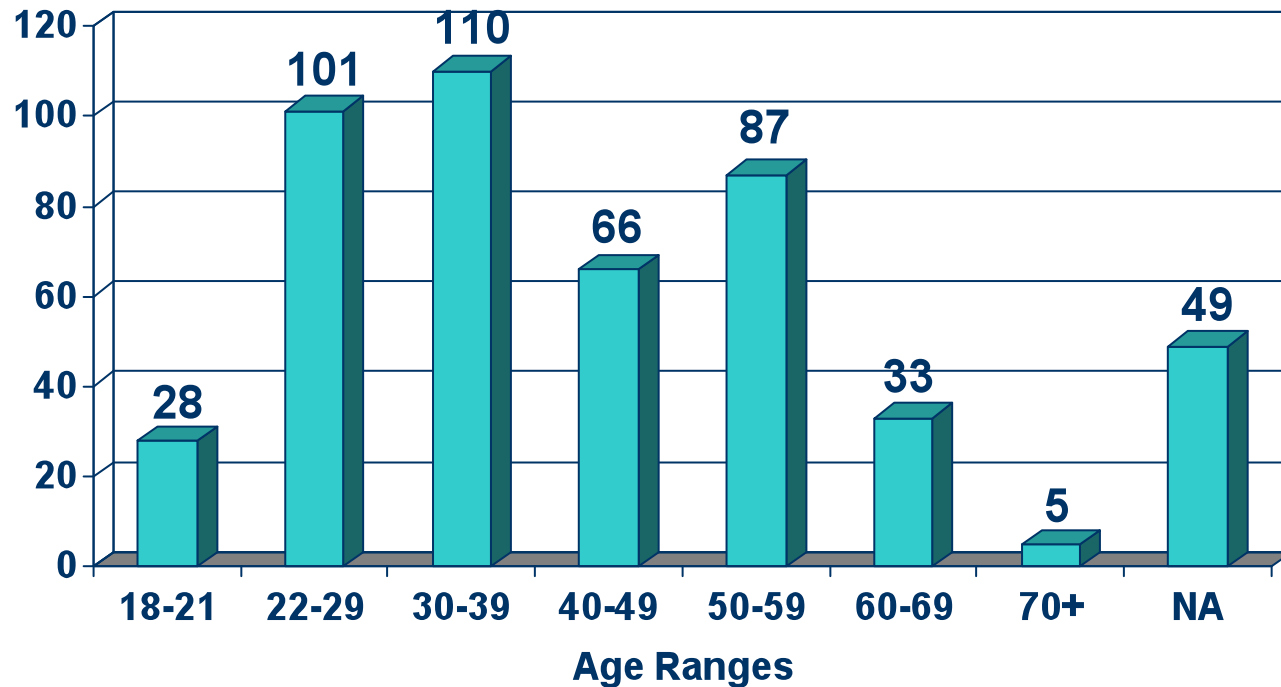


# Results of ACE Survey

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## Demographics of Survey Respondents

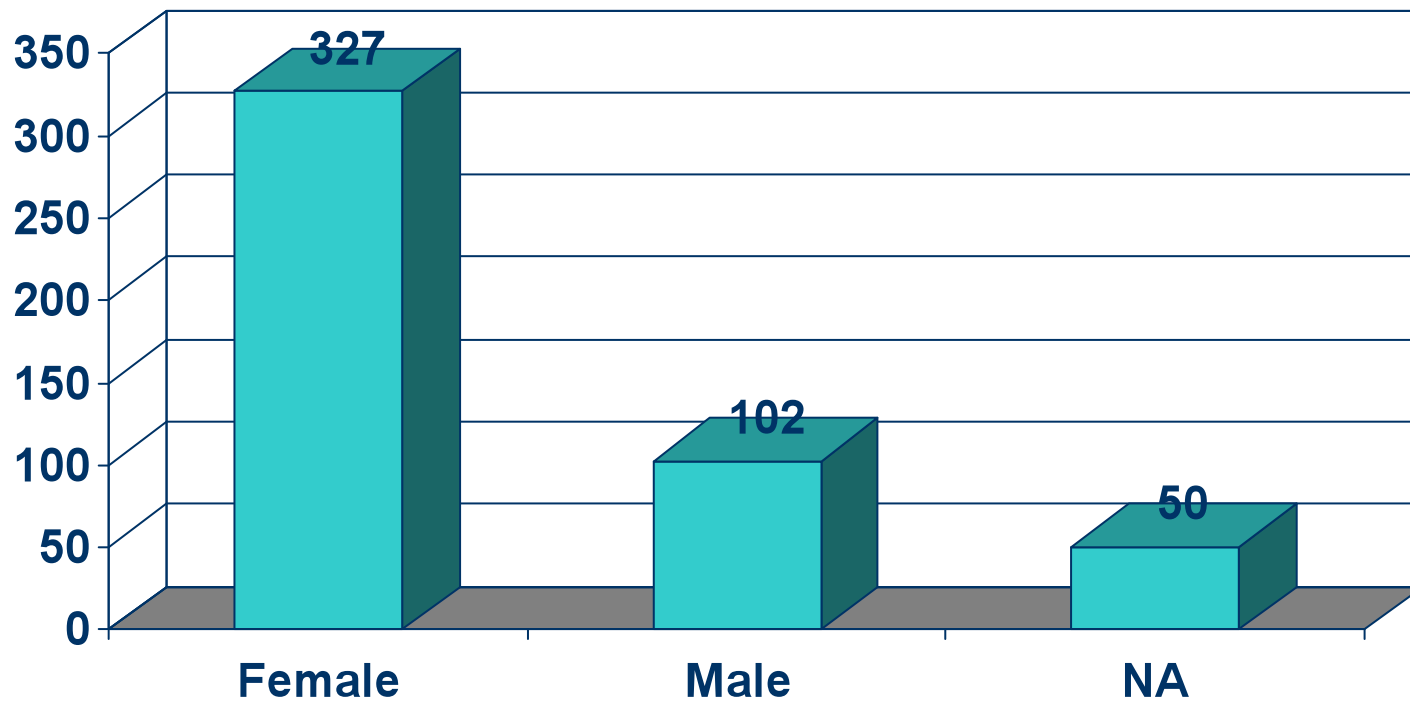
# Age of ACE Survey Respondents



## Comparison of ACE Respondents to Countywide: Age Distribution

Years	ACES Respondents	Countywide
18-29	30%	16%
30-59	61%	44%
60 and older	9%	40%

# Gender of ACE Survey Respondents



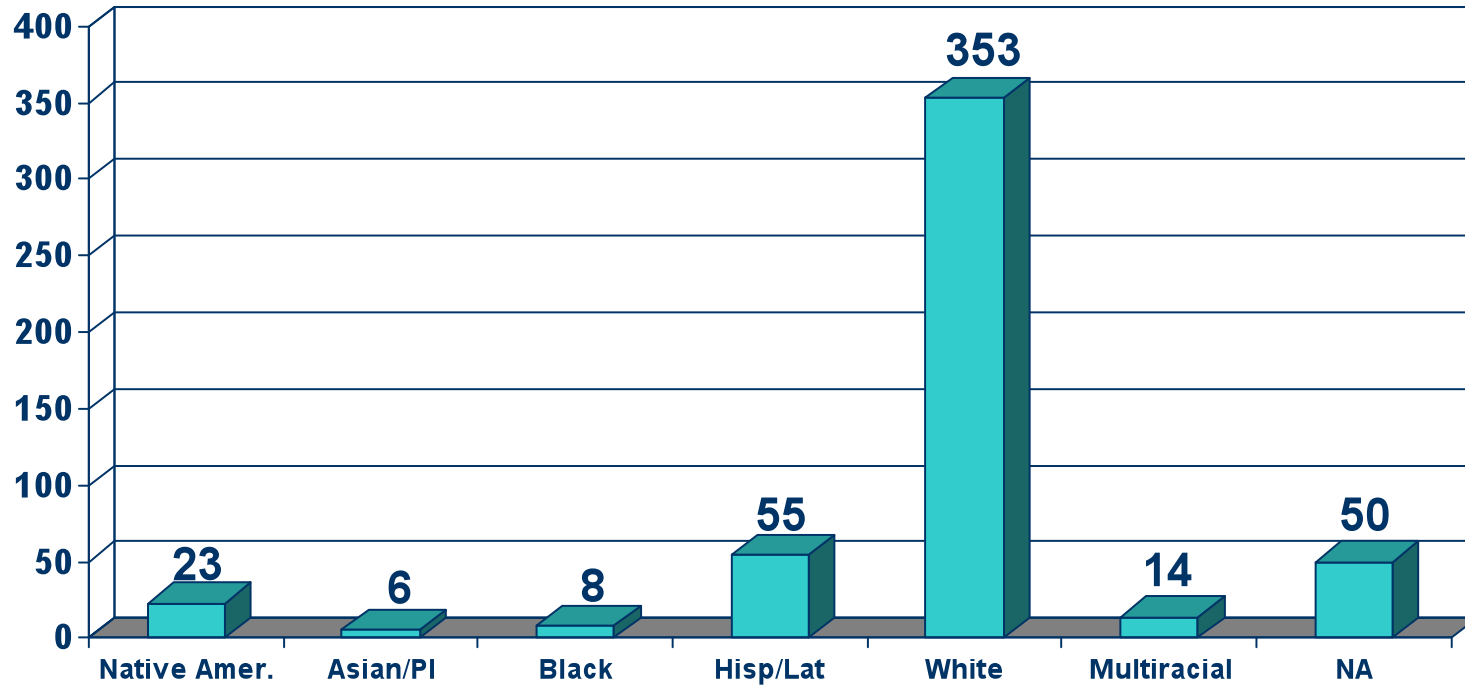


## Comparison of ACE Respondents to Countywide: Gender

	ACES Respondents	Countywide*
Female	76%	49.7%
Male	24%	50.3%

\*US Census, American Factfinder, 2006-2008 American Community Survey for Lake County

# Race/Ethnicity of ACE Respondents

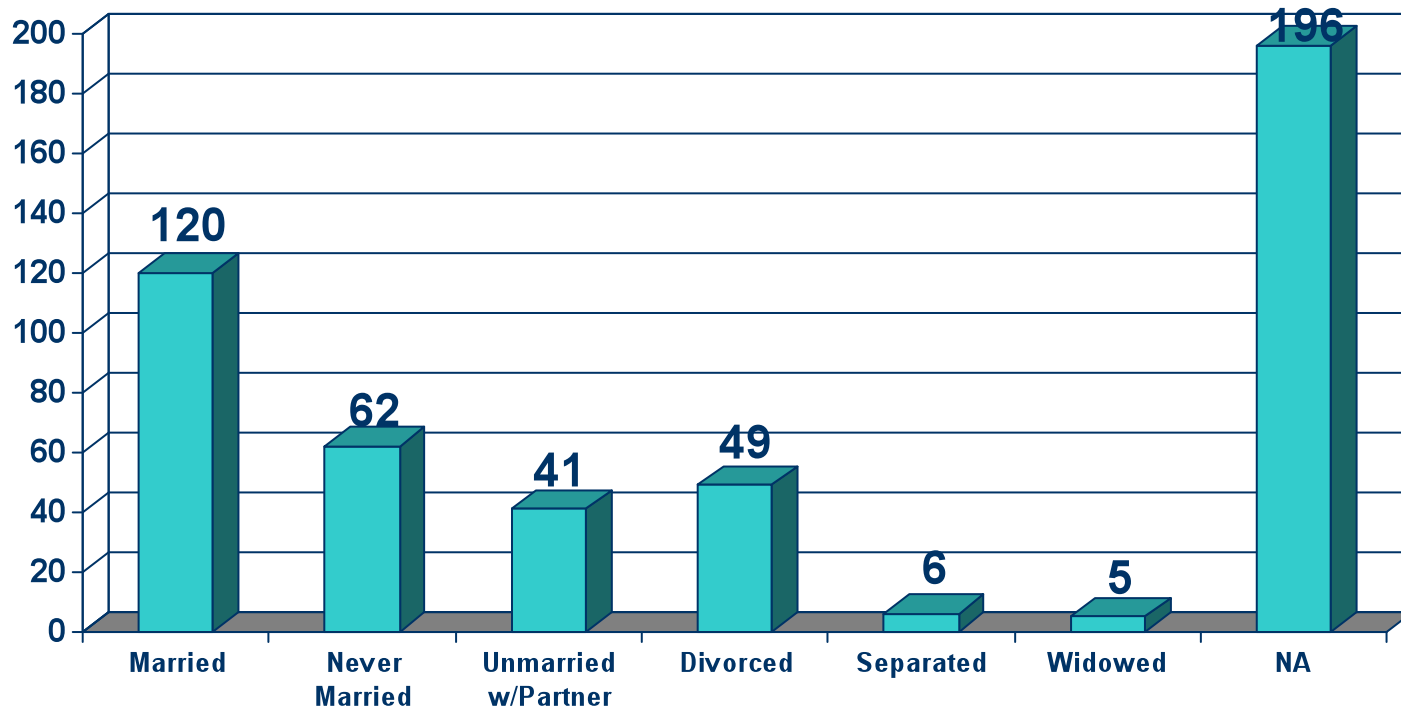


## Comparison of ACE Respondents to Countywide: Ethnicity/Race

	ACE Respondents	Countywide*
Native American	5%	2.2%
Asian/Pac.Islander	1%	1.3%
Black	2%	2.4%
Hispanic/Latino	12%	15.4%
White	77%	75.9%
Multiracial	3%	2.8%

\*US Census, American Factfinder, 2006-2008 American Community Survey for Lake County

# Marital Status of ACE Survey Respondents



## Comparison of ACE Respondents to Countywide: Marital Status

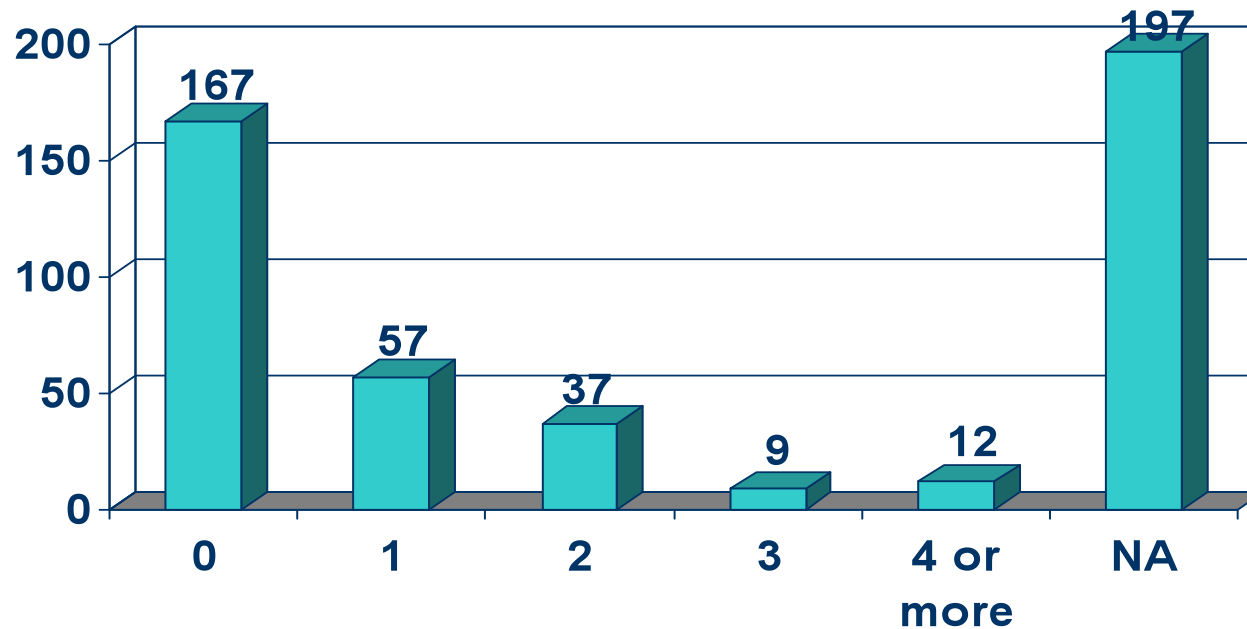
	ACE Respondents	Countywide*
Married**	57%	28.4%
Never Married	22%	45.2%
Separated	2%	3.2%
Divorced	17%	15.6%
Widowed	2%	7.6%

\*US Census, American Factfinder, 2006-2008 American Community Survey for Lake County

\*\*Includes Unmarried, but living with a partner.

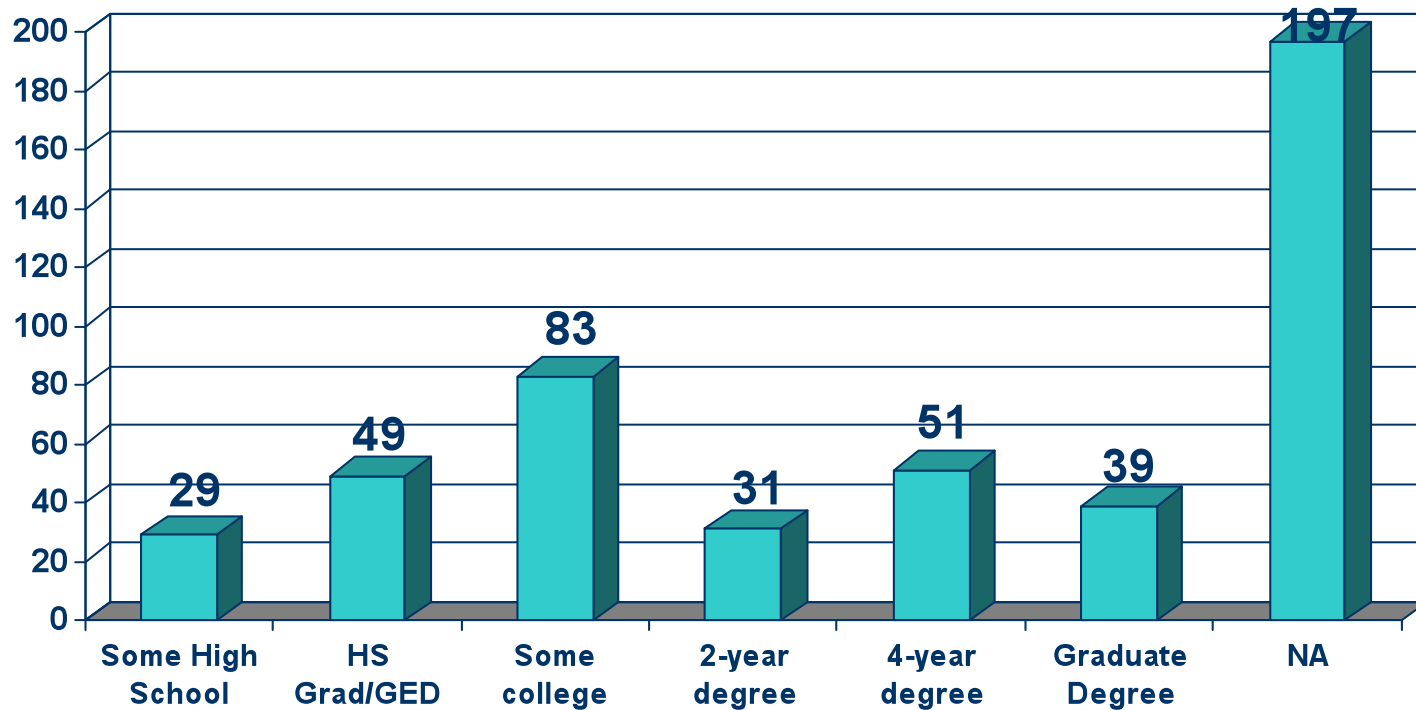
# Children in home of ACE Survey Respondents

41% of survey respondents said they had one or more children under 18 living in their home, compared with 34% county-wide\*.



\*US Census, American Factfinder, 2006-2008 American Community Survey for Lake County).

# Educational Status of ACE Survey Respondents



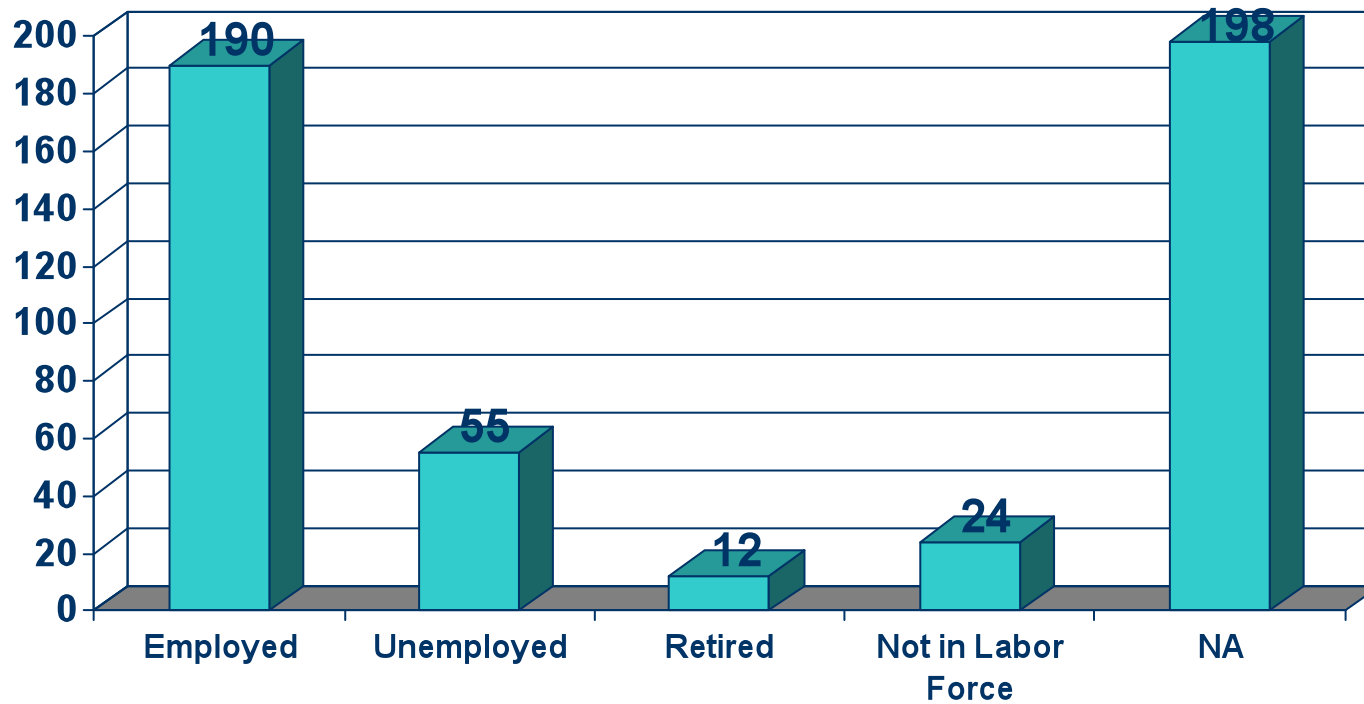
## Comparison of ACE Respondents to Countywide: Educational Status

	ACE Respondents	Countywide*
Some HS	10%	14.1%
HS Grad/GED	17%	36.6%
Some college	30%	26.5%
2-yr degree	11%	7.6%
4-year degree	18%	10.9%
Graduate degree	14%	4.4%

\*US Census, American Factfinder, 2006-2008 American Community Survey for Lake County



# Employment Status of ACE Survey Respondents

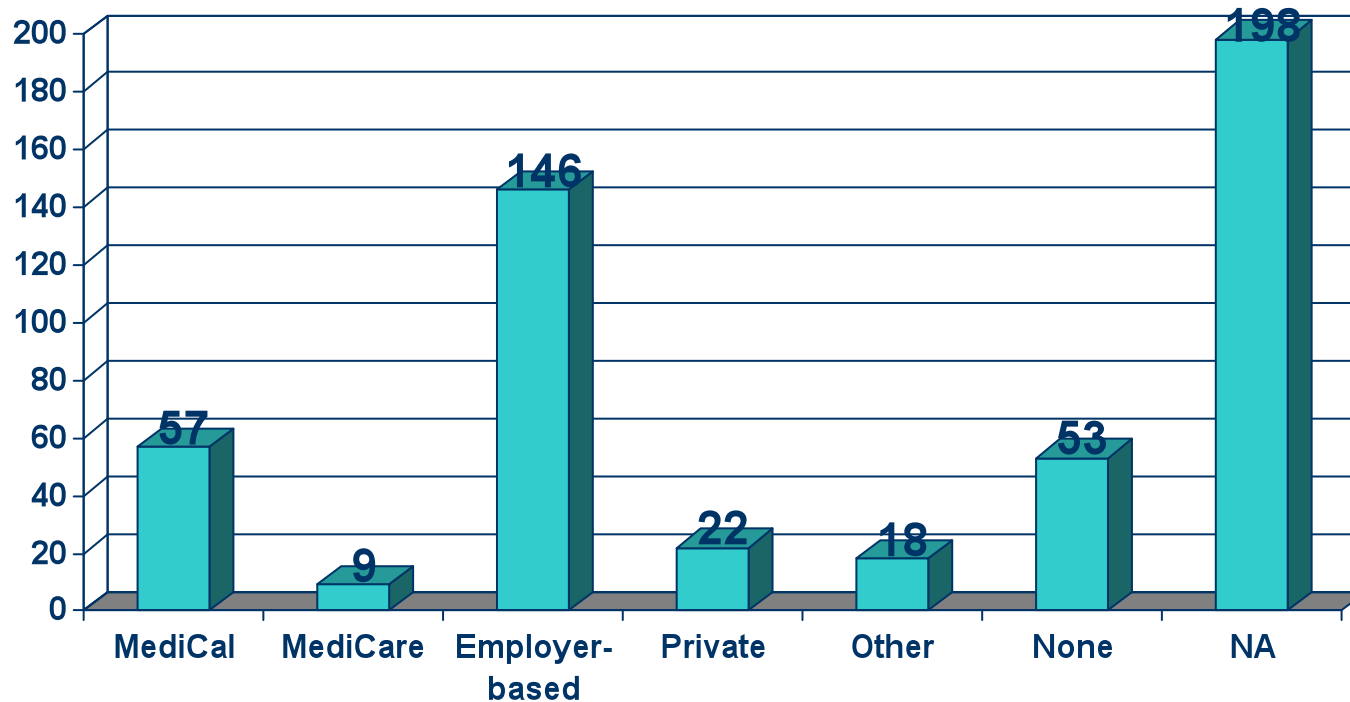


## Comparison of ACE Respondents to Countywide: Employment Status

	ACE Respondents	Countywide*
Employed	67%	52%
Unemployed	20%	6%
Not in Labor Force	13%	42%

\*US Census, American Factfinder, 2006-2008 American Community Survey for Lake County

# Health Insurance Status of ACE Survey Respondents

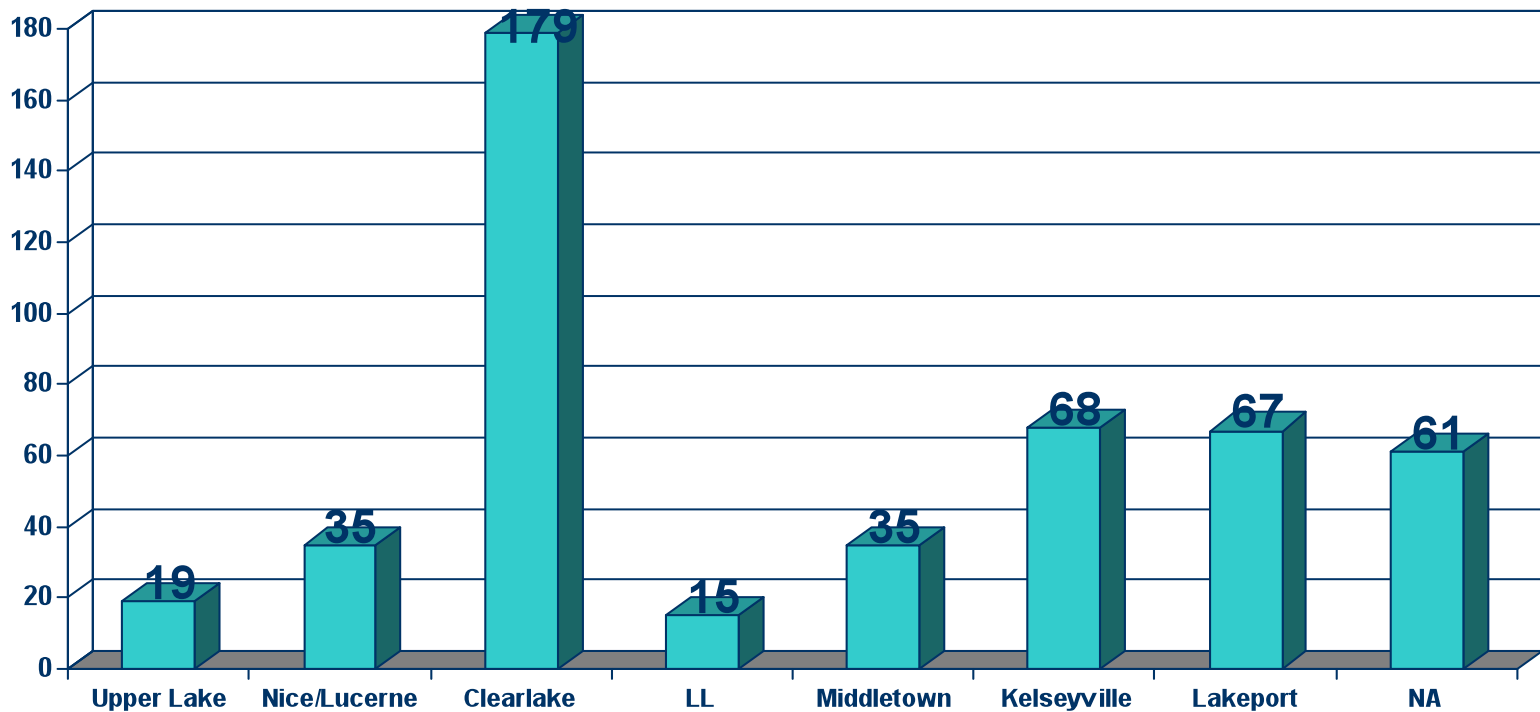


62% of those responding said they had a medical home.

## Zip Code/Cities included in ACE Survey

City	Zip Code
Upper Lake	95485, 95493
Nice/Lucerne	95464, 95458
Clearlake/Glenhaven	95422, 95423, 95424, 95443
Lower Lake	95457
Middletown/Cobb/ Hidden Valley Lake	95461, 95426, 95467
Kelseyville	95451
Lakeport/Finley	95453, 95435

# Zip Code/Cities of ACE Survey Respondents



## Comparison of ACE Respondents to Countywide: Zip Code/City

Areas	ACE Respondents	Countywide*
Upper Lake	5%	4%
Nice/Lucerne	8%	9%
Clearlake	43%	30%
Lower Lake	4%	5%
Middletown/Cobb/HVL	8%	16%
Kelseyville	16%	17%
Lakeport	16%	19%

\*US Census, 2000

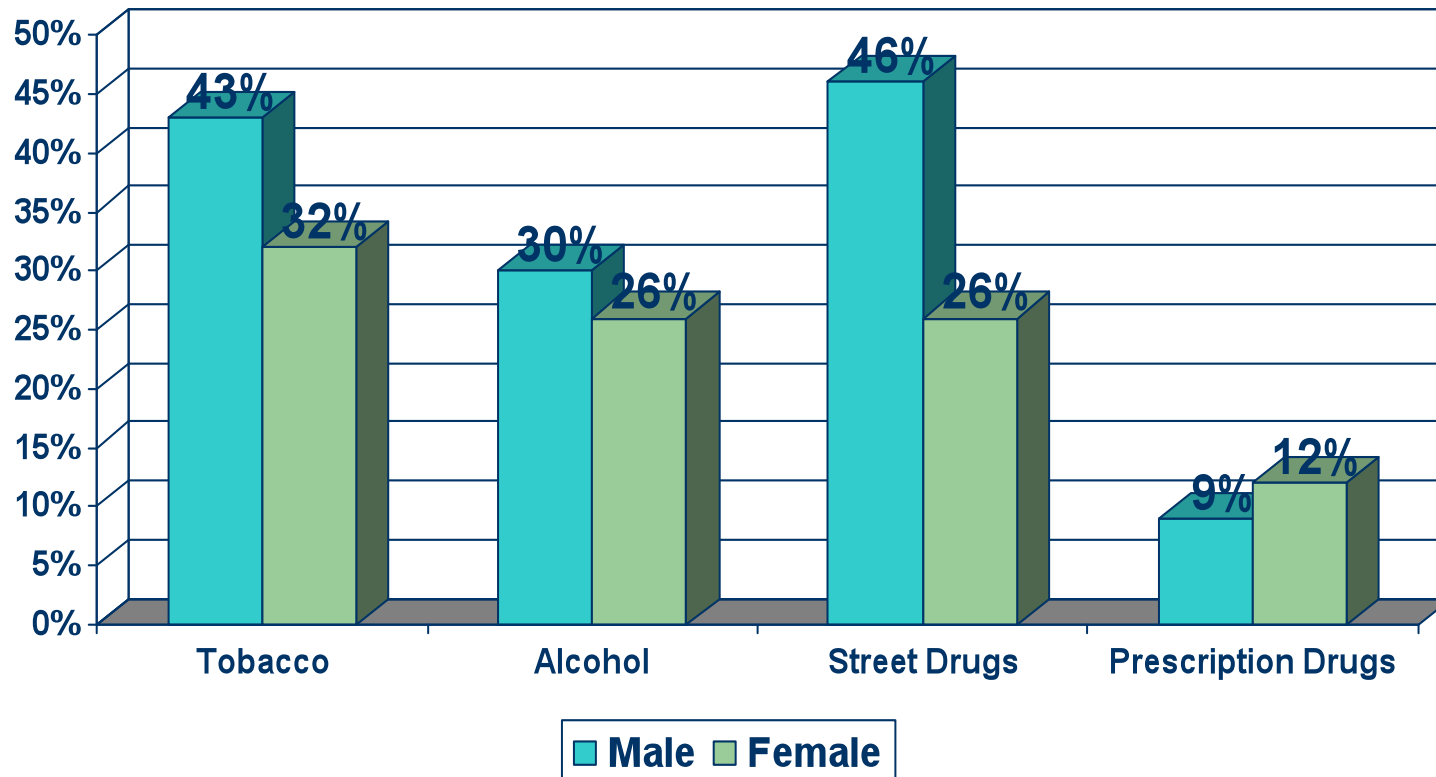


# Results of ACE Survey



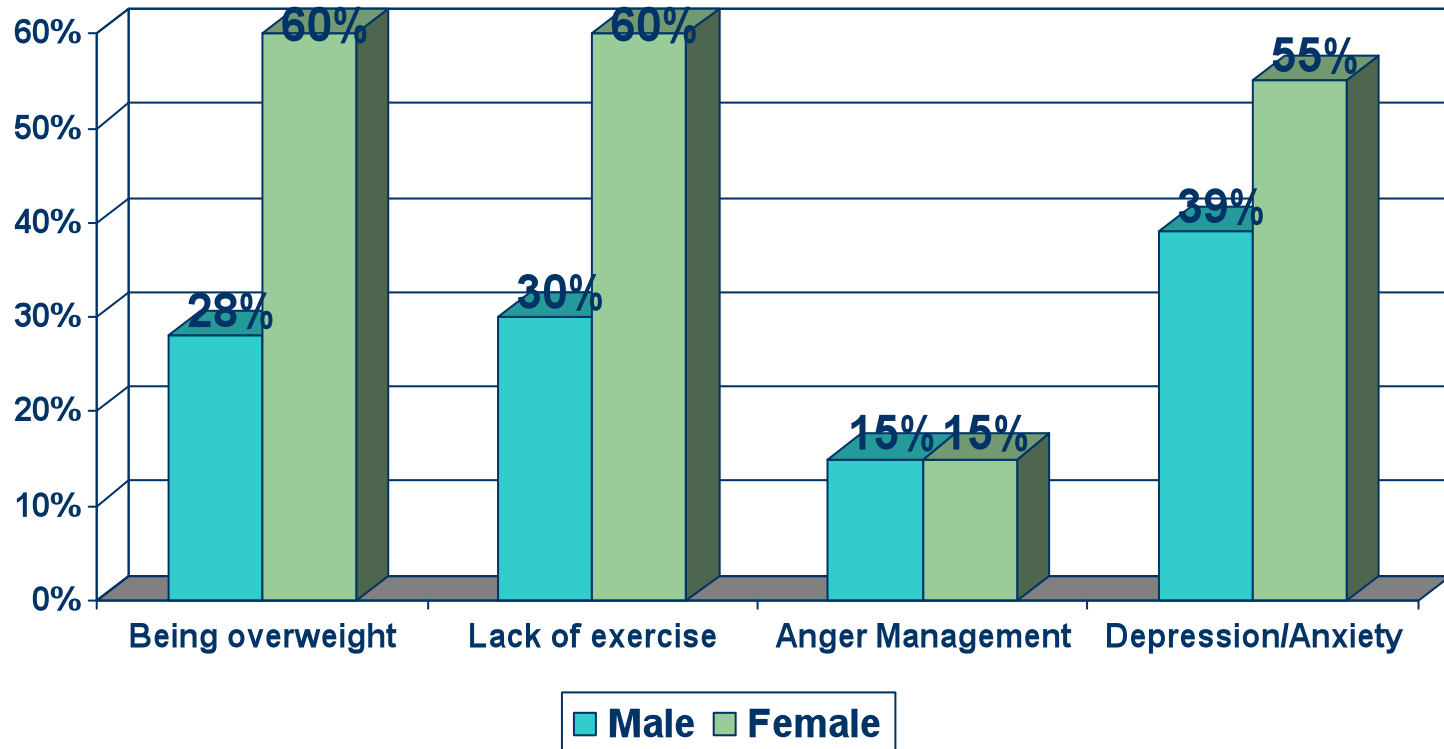
Chronic Health Conditions  
and Behavioral Issues

# Chronic Behavioral Issues of ACE Survey Respondents

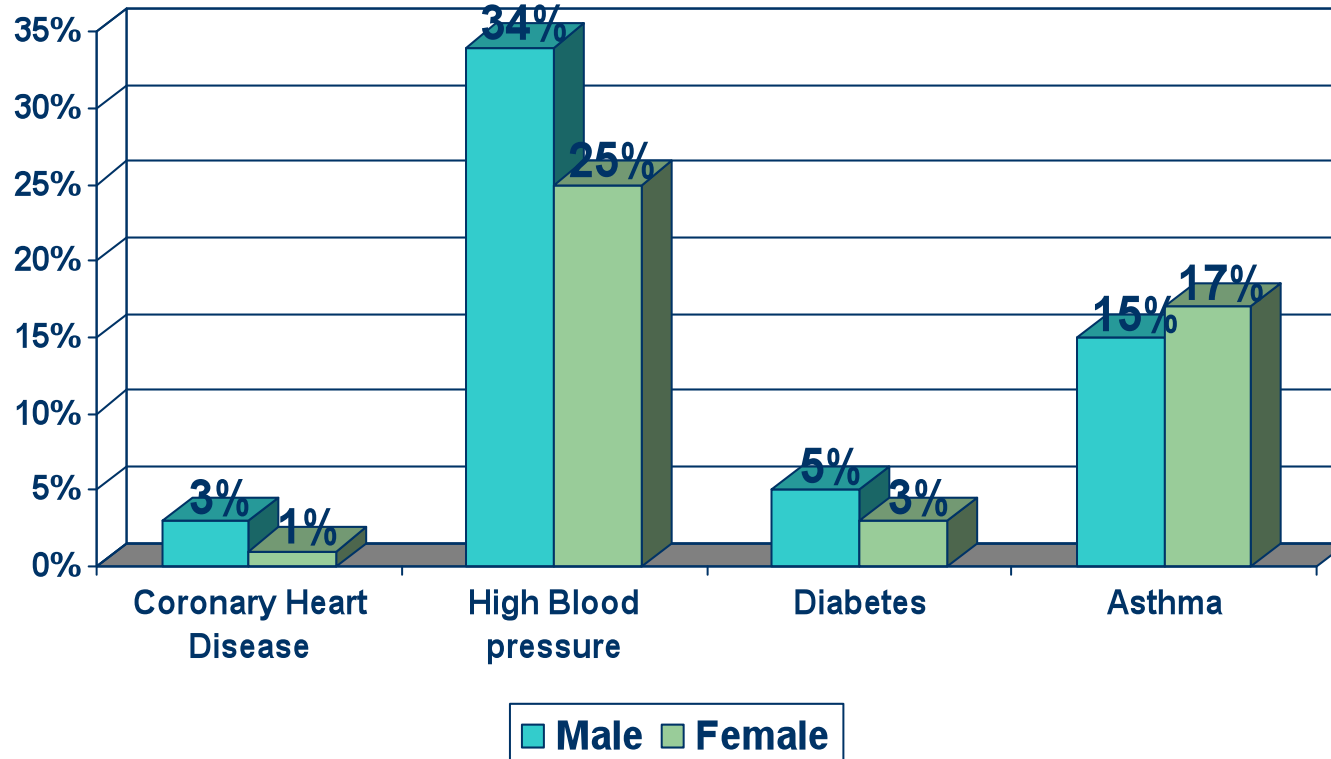




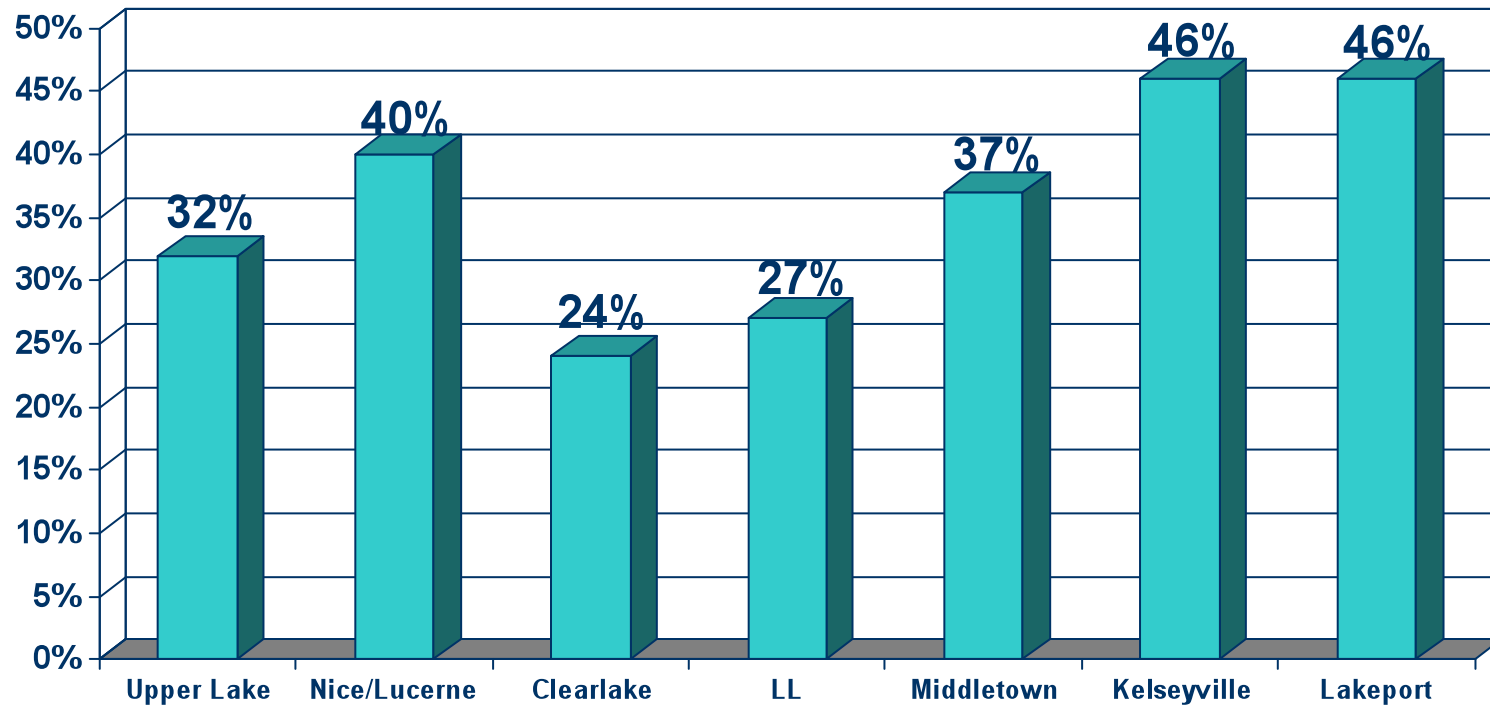
# Chronic Mental Health/Behavioral Issues of ACE Survey Respondents



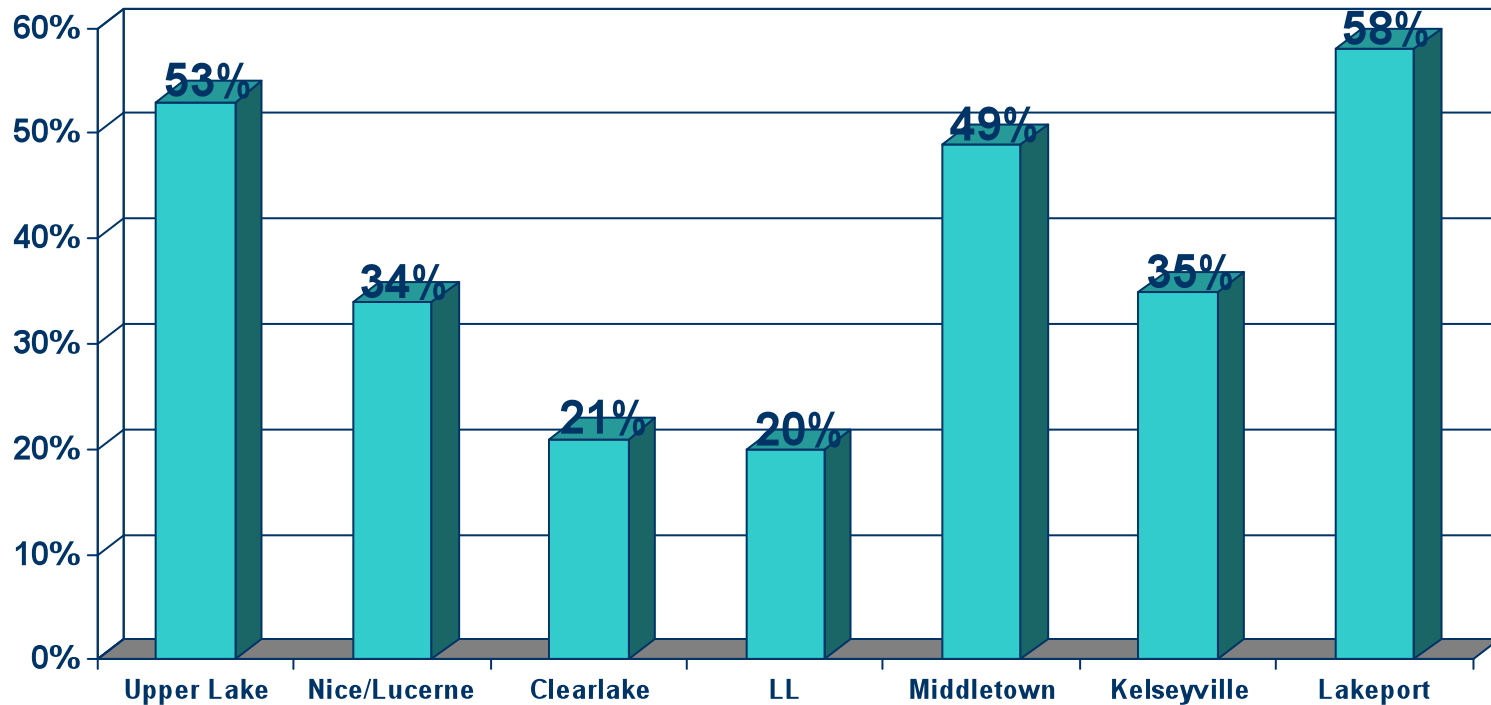
# Chronic Health Conditions of ACE Survey Respondents



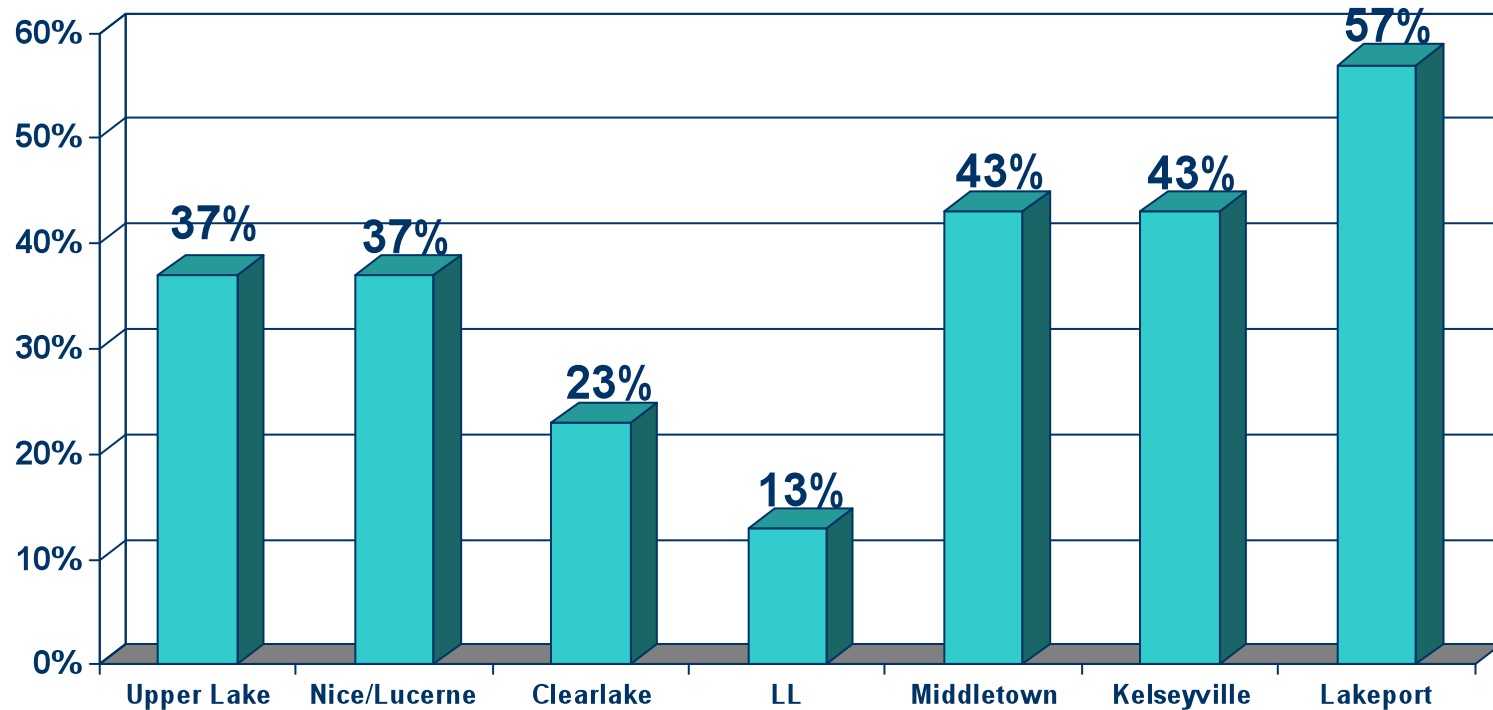
# ACE Survey Respondents who Experienced Depression: By Area



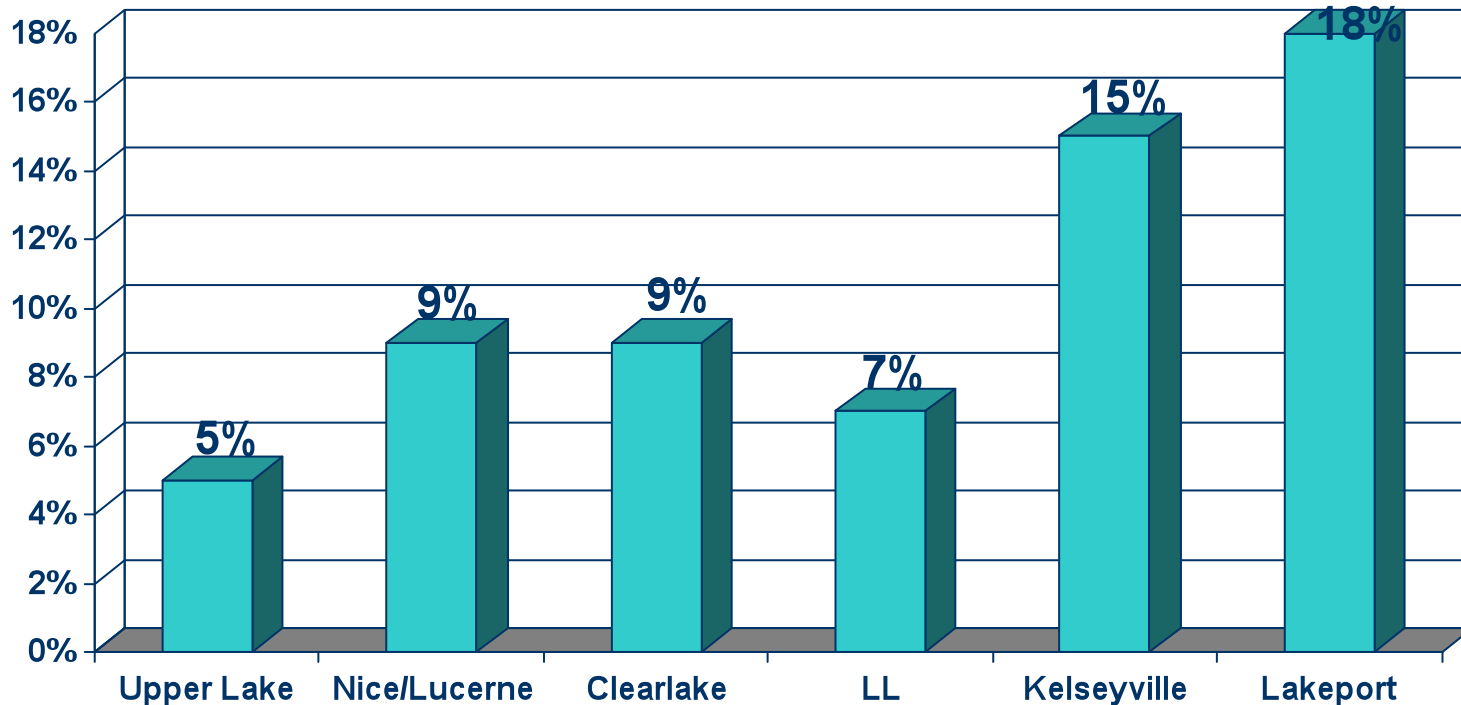
# ACE Survey Respondents who Experienced Being Overweight: By Area



# ACE Survey Respondents who Experienced Lack of Sufficient Exercise: By Area

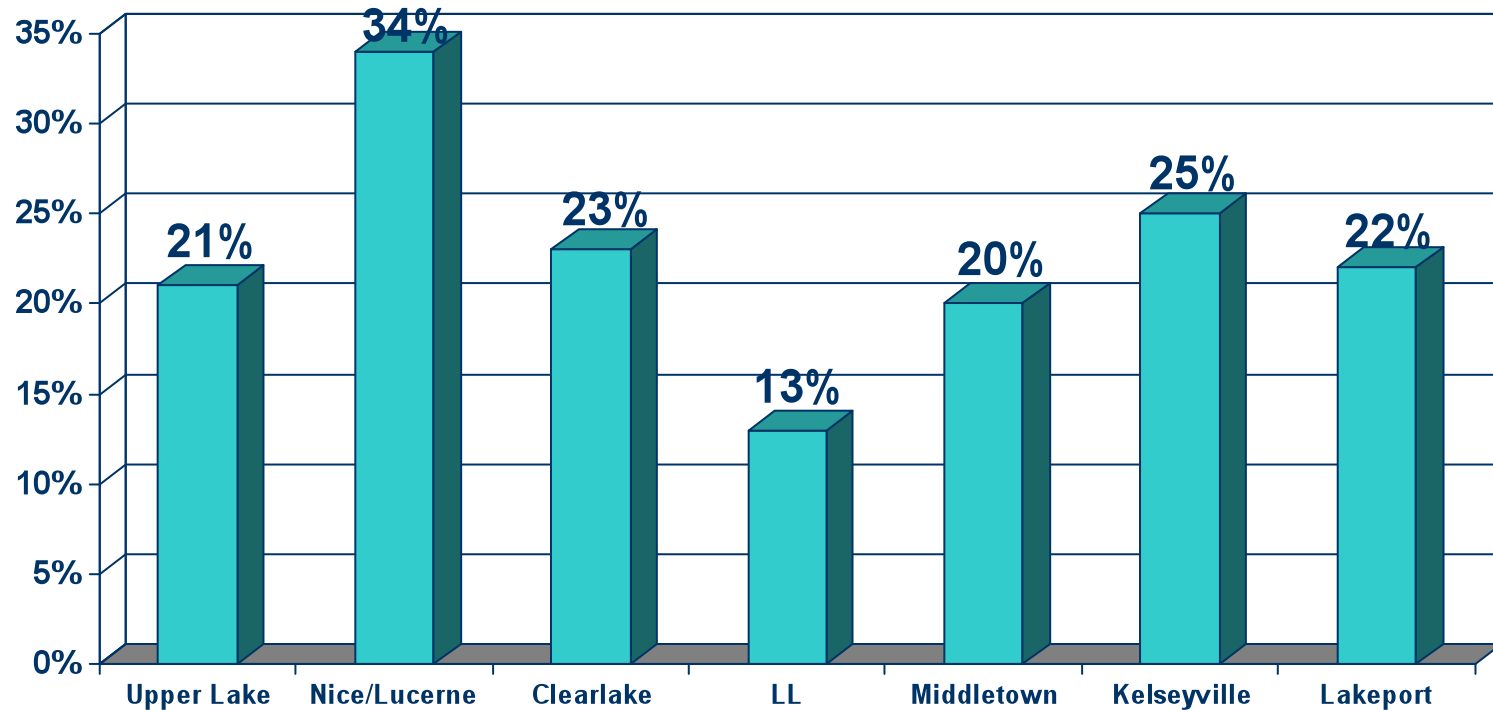


# ACE Survey Respondents who Experienced Difficulty with Anger Management: By Area

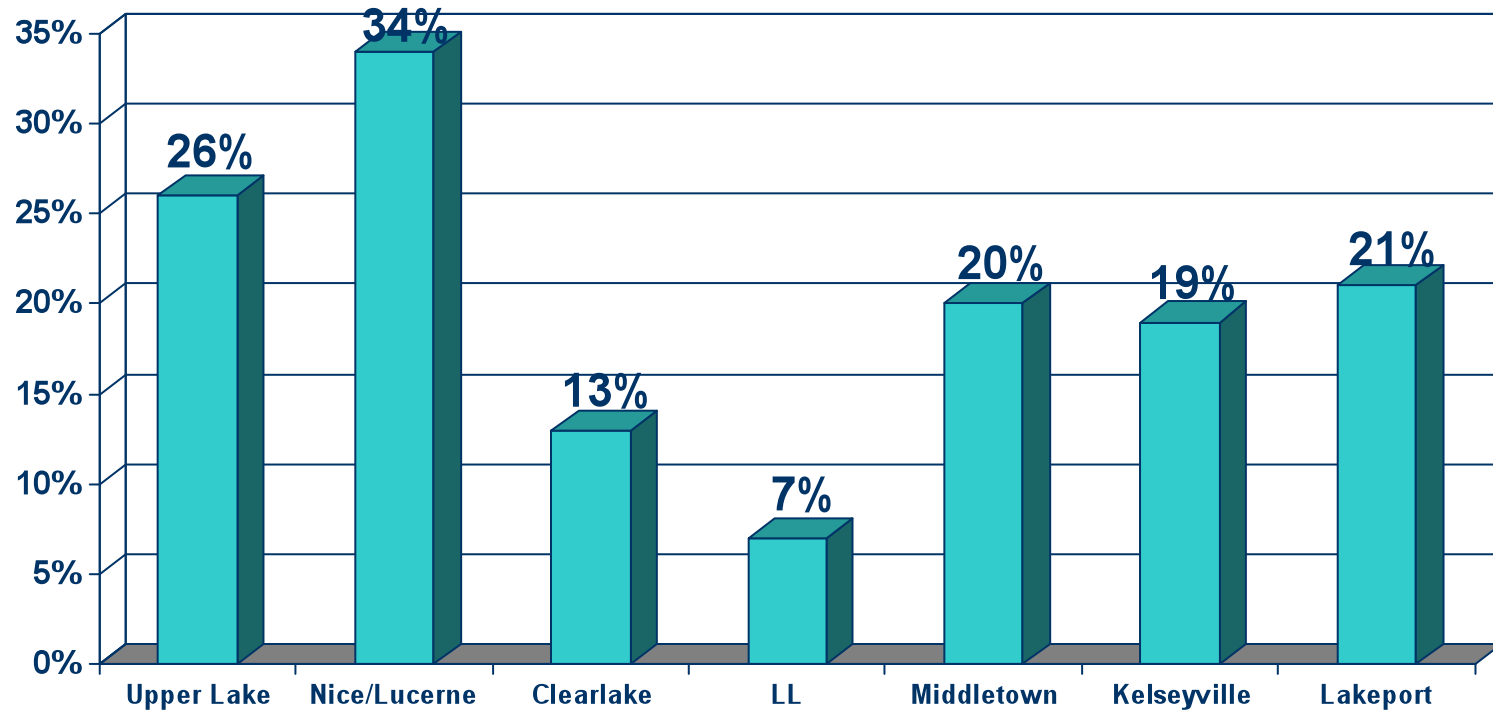


Note: Middletown/Cobb area had 0% of survey respondents who said they had experienced difficulty with anger management.

# ACE Survey Respondents who Experienced Difficulty Quitting Tobacco: By Area

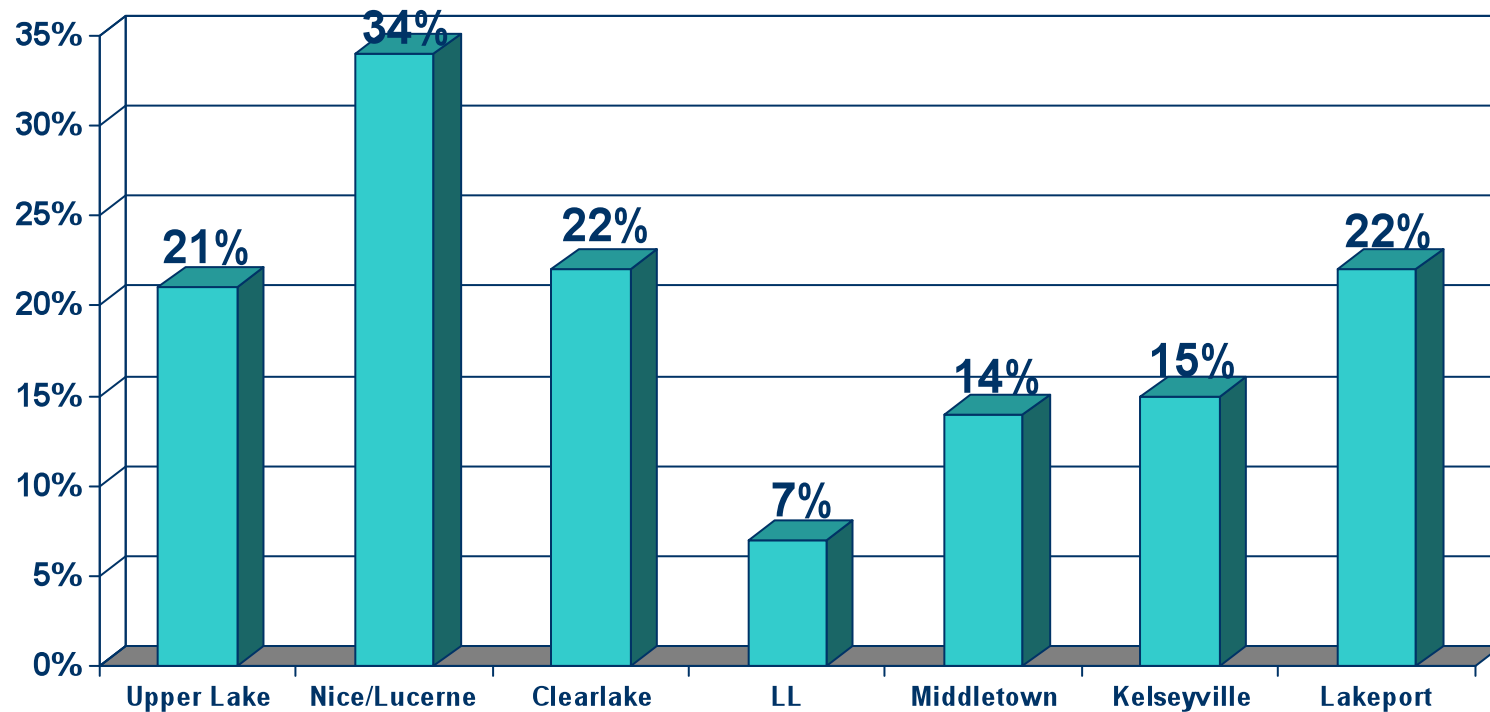


# ACE Survey Respondents who Experienced Overuse of Alcohol: By Area

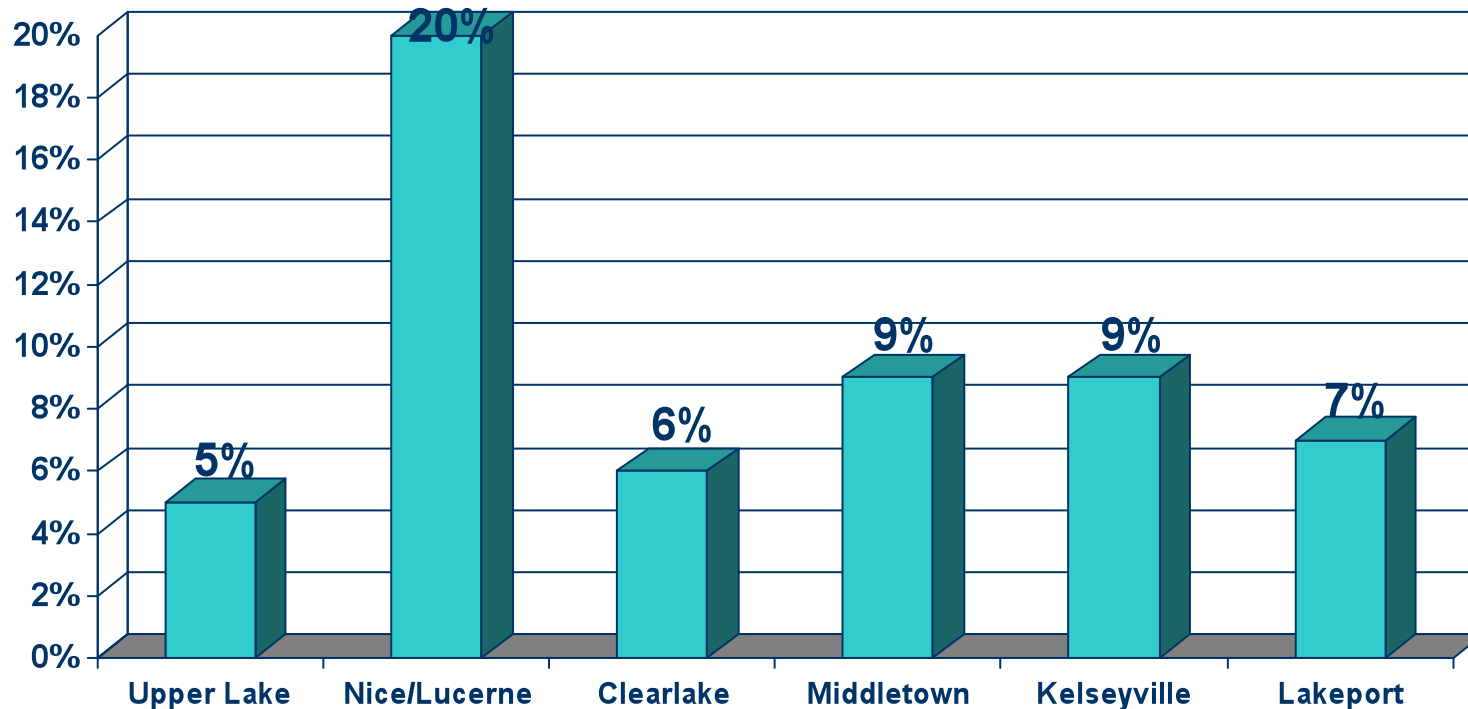




# ACE Survey Respondents who Experienced Street Drug Use: By Area

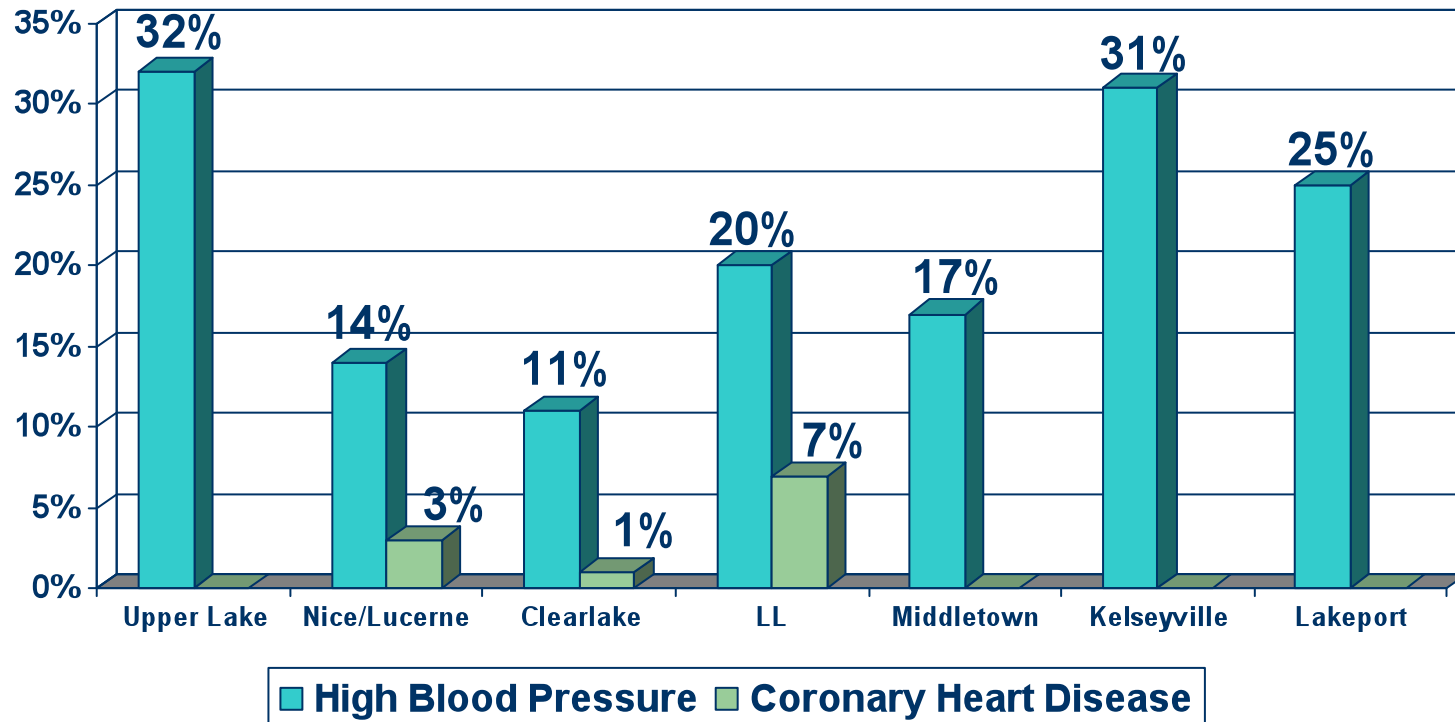


# ACE Survey Respondents who Experienced Overuse of Prescription Drugs: By Area

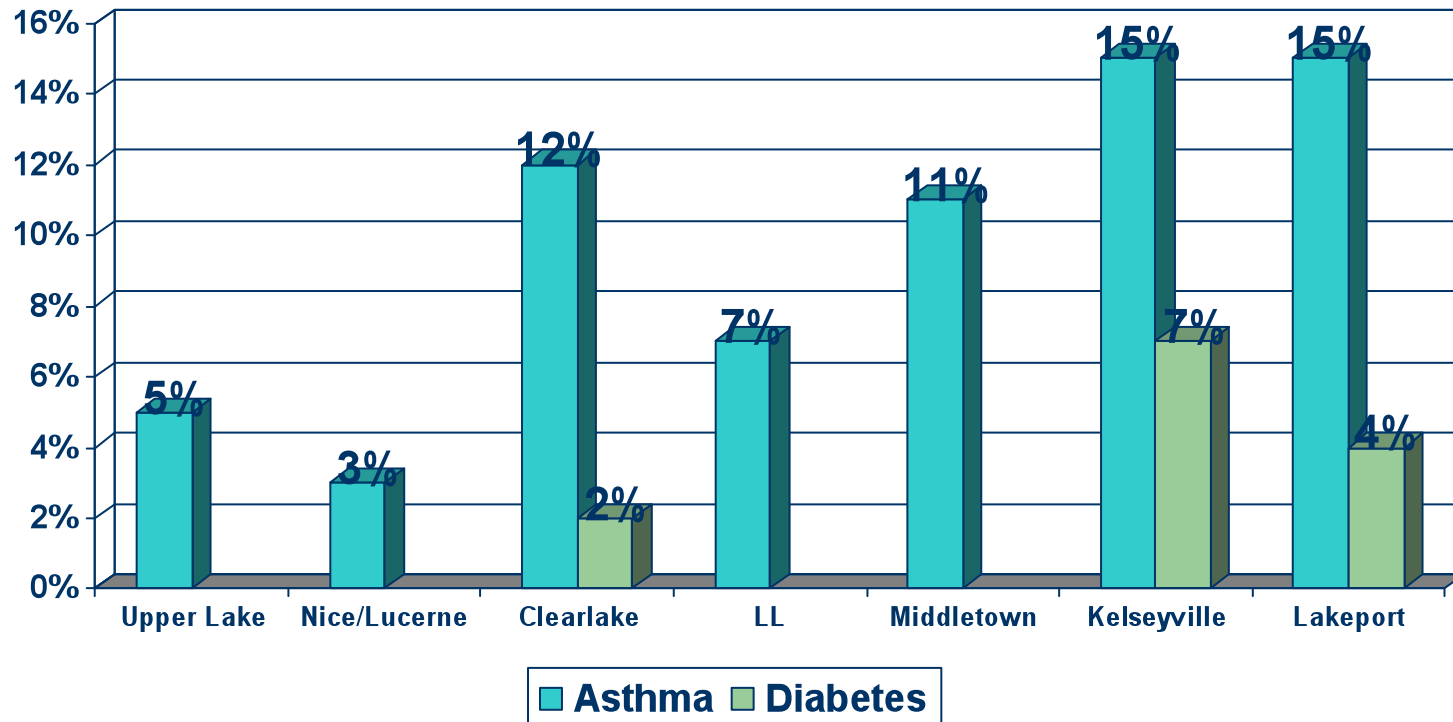


Note: Lower Lake area had 0% of survey respondents who said they had experienced overuse of prescription drugs.

# ACE Survey Respondents who Experienced Coronary Heart Disease or High Blood Pressure: By Area



# ACE Survey Respondents who Experienced Diabetes or Asthma: By Area



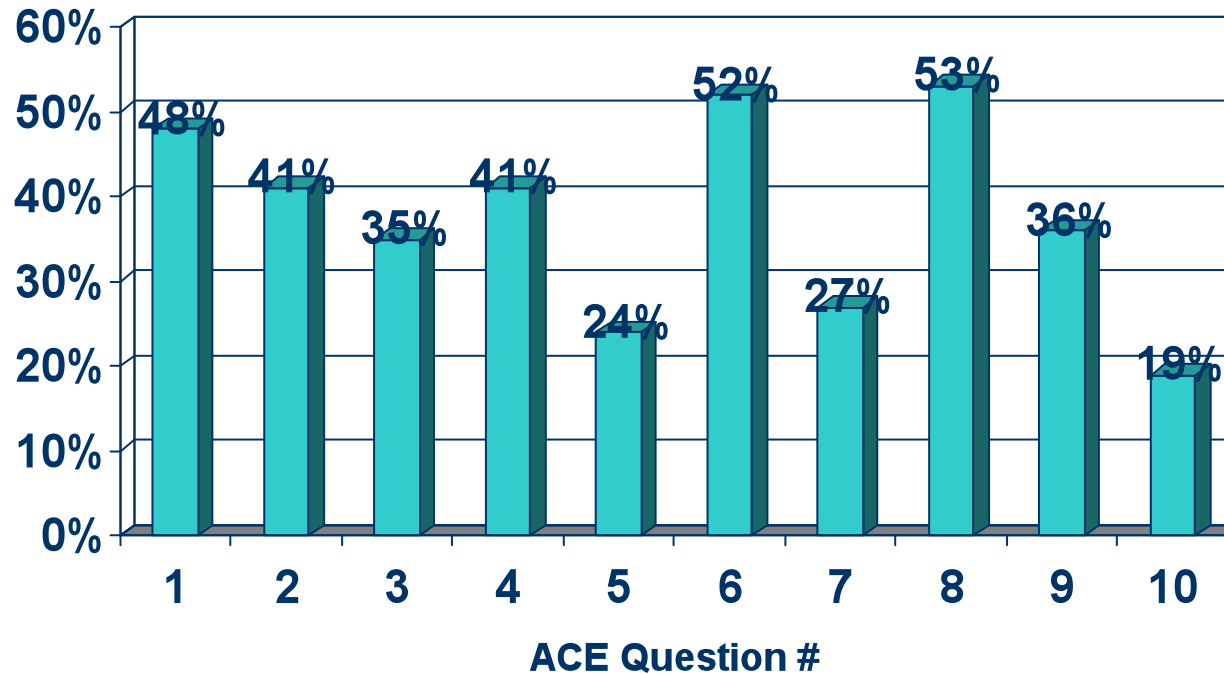


# Results of ACE Survey

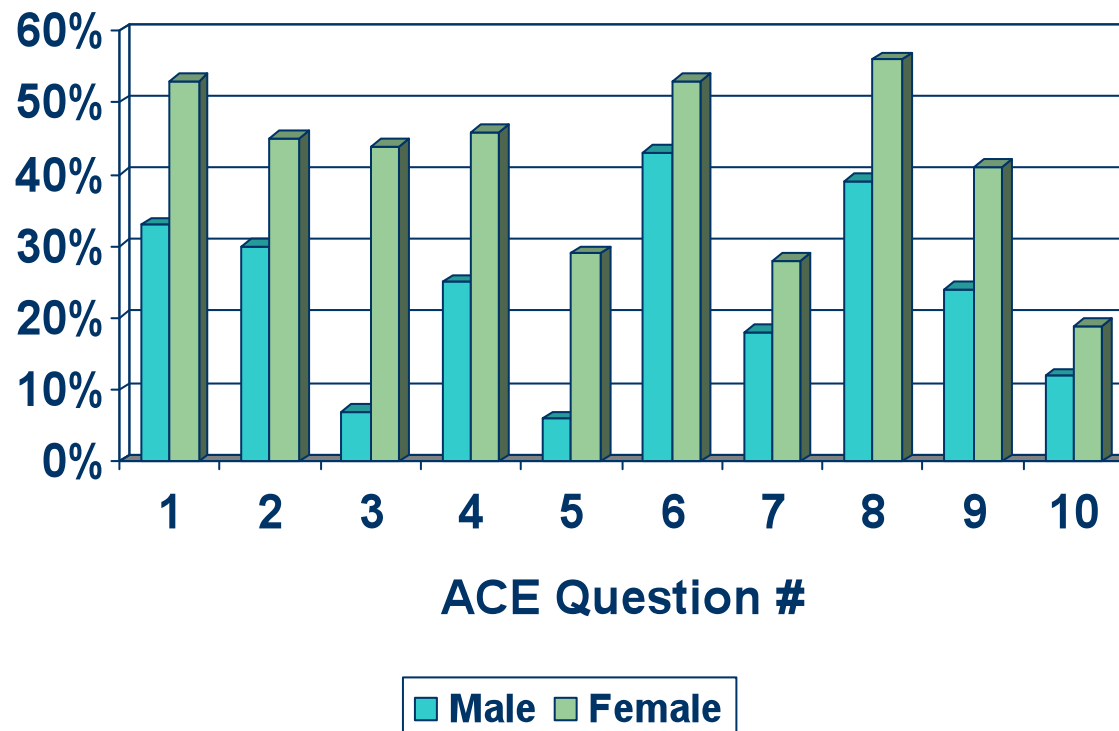
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Responses to  
10 ACE Questions

# Percent of Respondents Indicating “Yes” to Questions #1-10

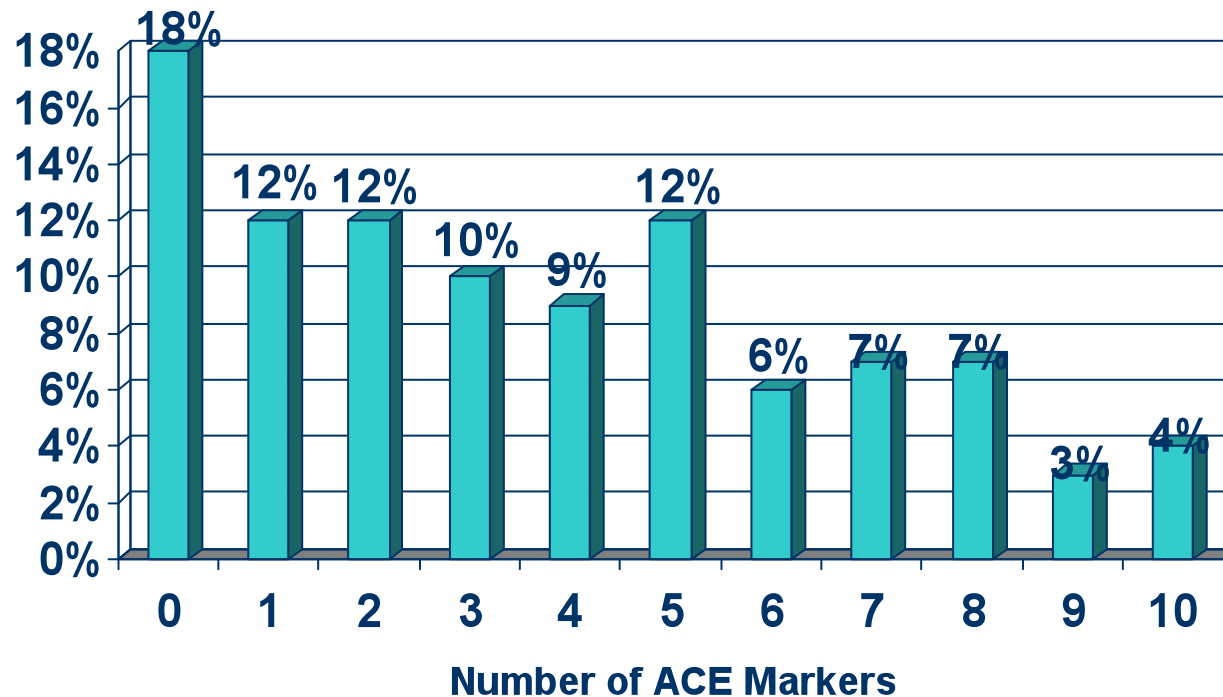


# Percent of Male & Female Respondents Indicating “Yes” to Questions #1-10



# Frequency of ACE Markers in Survey Respondents

39% of respondents had 5 or more ACE markers.



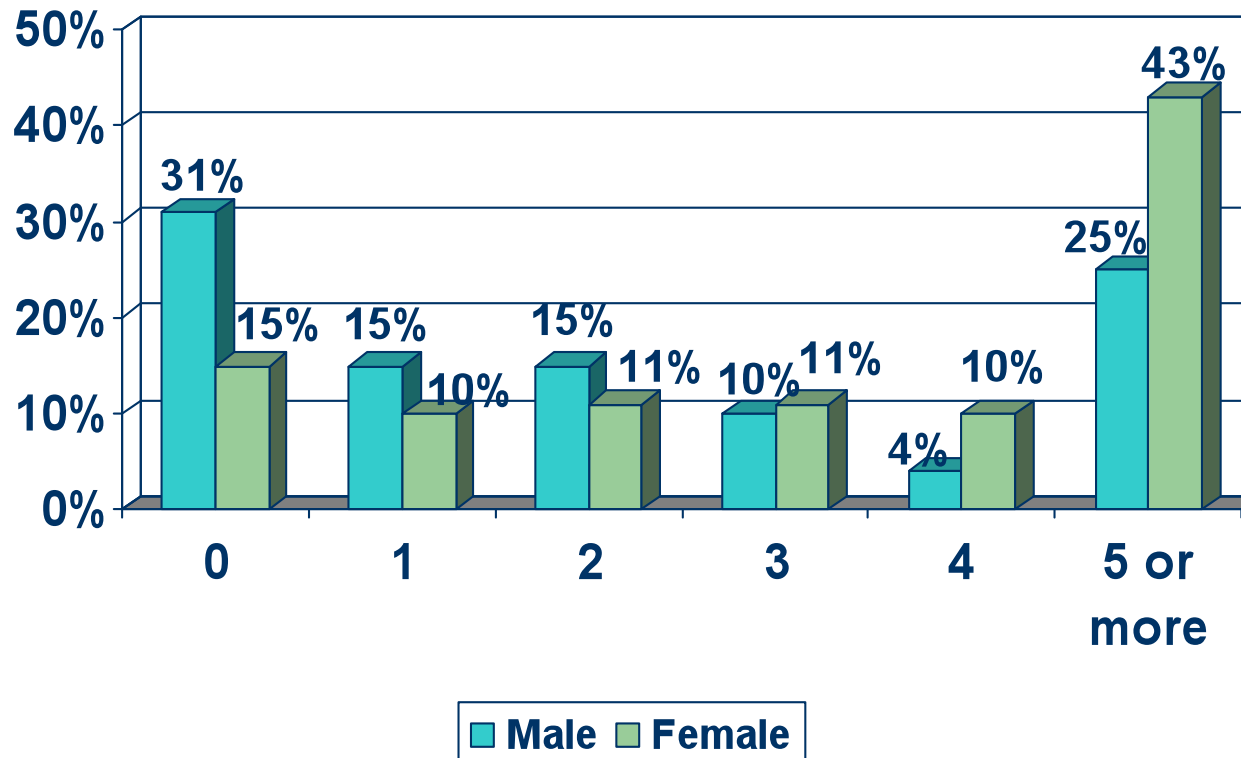


## Frequency of ACE Markers in Survey Respondents

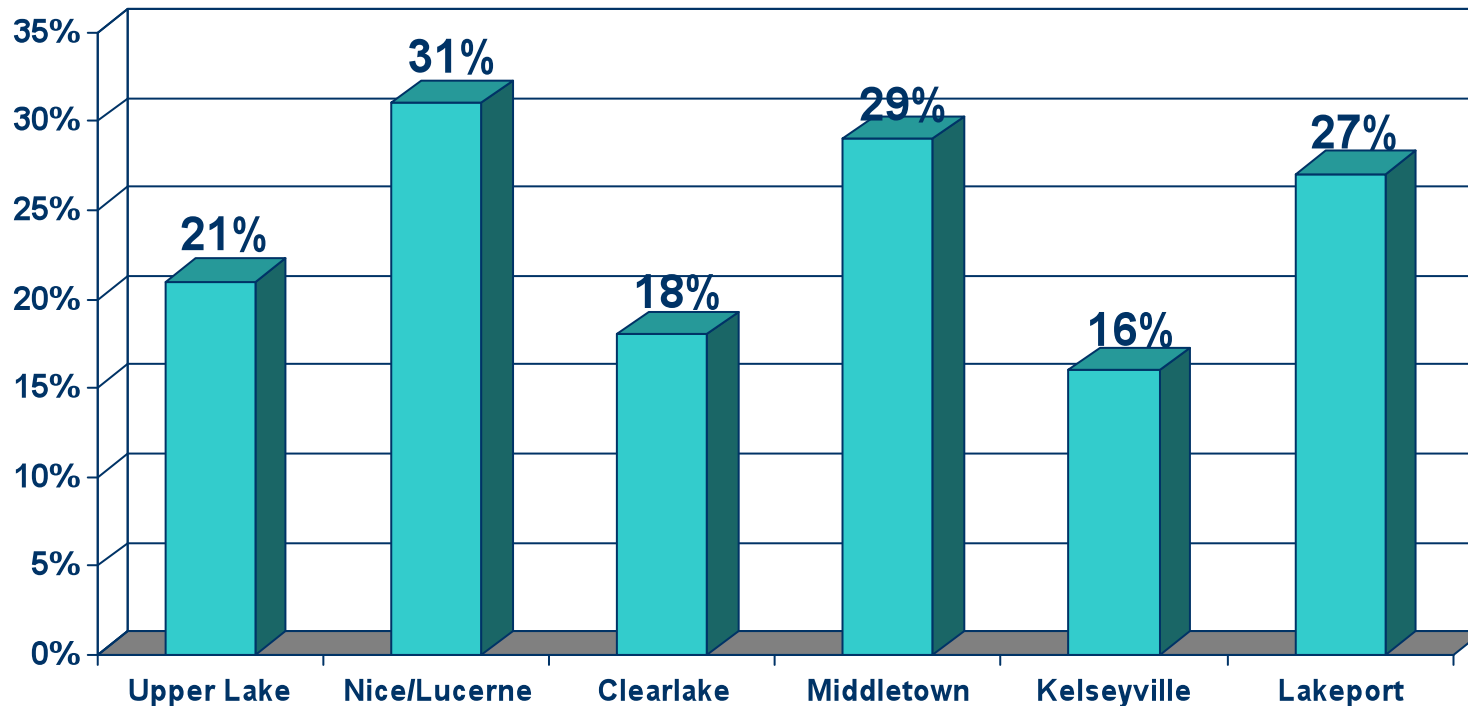
Source* of Completed Survey	Percent with 5 or more ACE Markers
AODS	27%
Online	30%
Redwood Children's Services	33%
CWS	45%
LFRC	54%
New Beginnings	62%

\*Note: Program Staff and participants completed surveys.

# Frequency of ACE Markers in Male & Female Survey Respondents



# Frequency of ACE Markers by Area: Survey Respondents with 5 or more



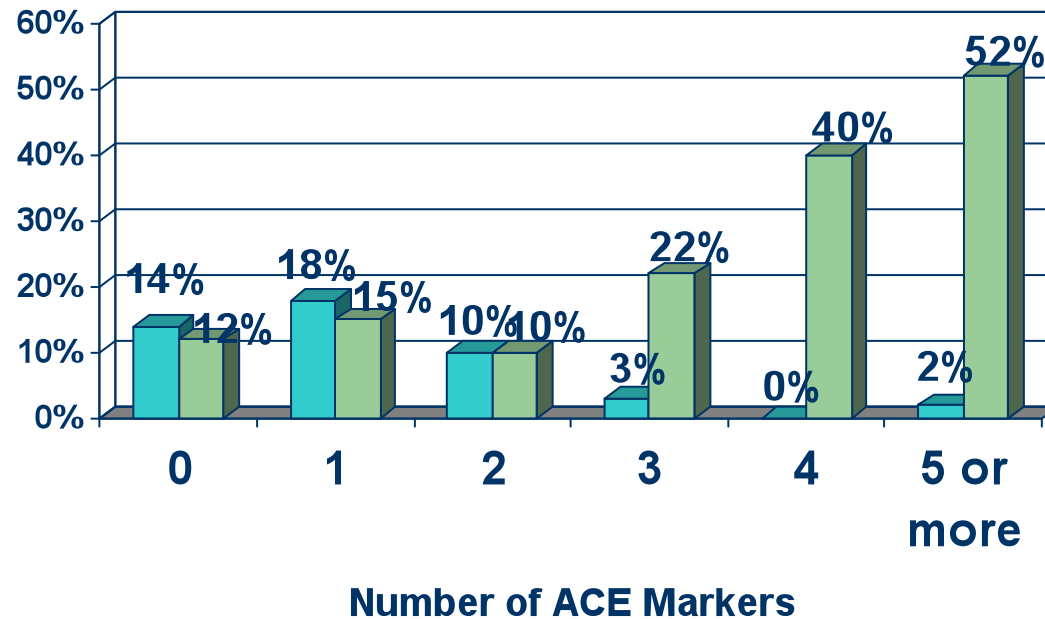
Note: Lower Lake had 0% of its survey respondents with 5 or more ACE markers.

# Results of ACE Survey



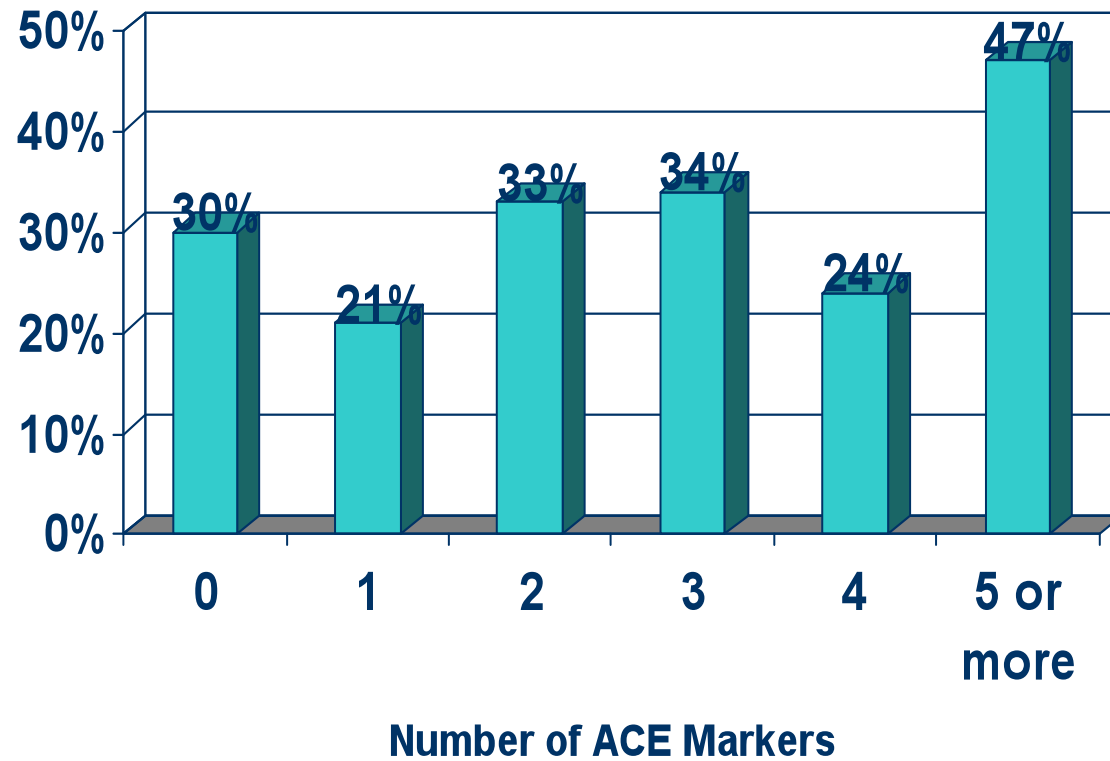
Relationship Between  
ACE Markers and  
Chronic Health Conditions  
and Behavioral Issues

# Number of ACE Markers Vs. Number of Health/Behavioral Conditions

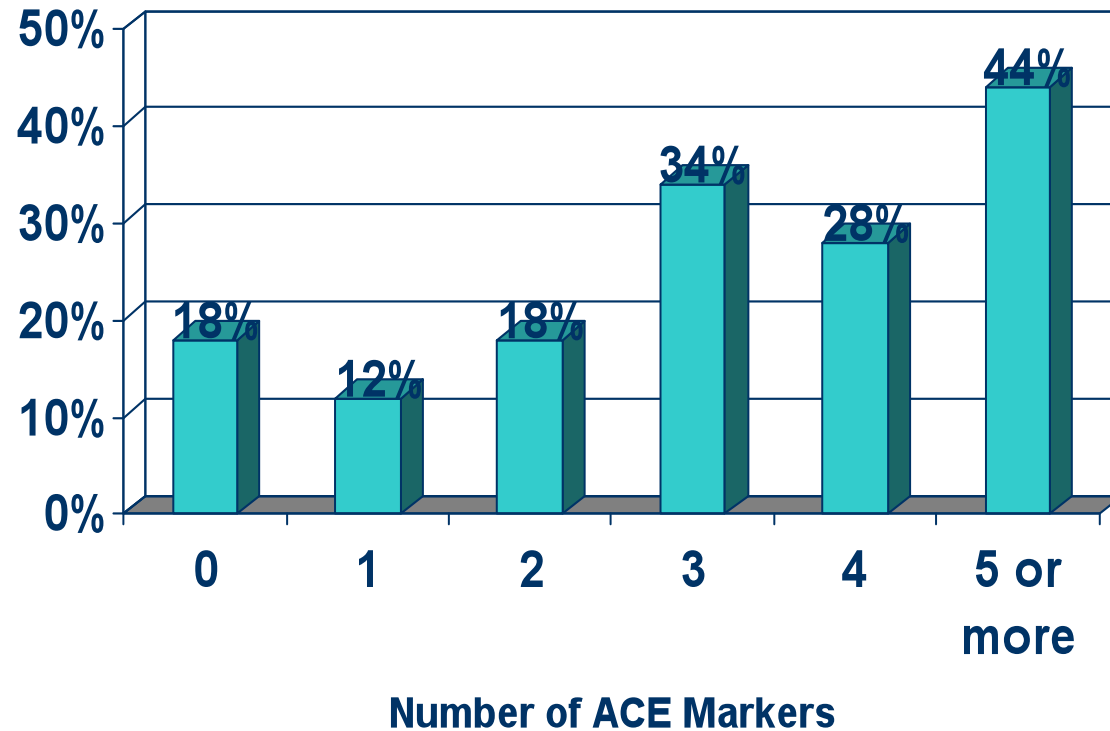


■ Zero Health/Behavioral Conditions ■ 5 or more Health/Behavioral Conditions

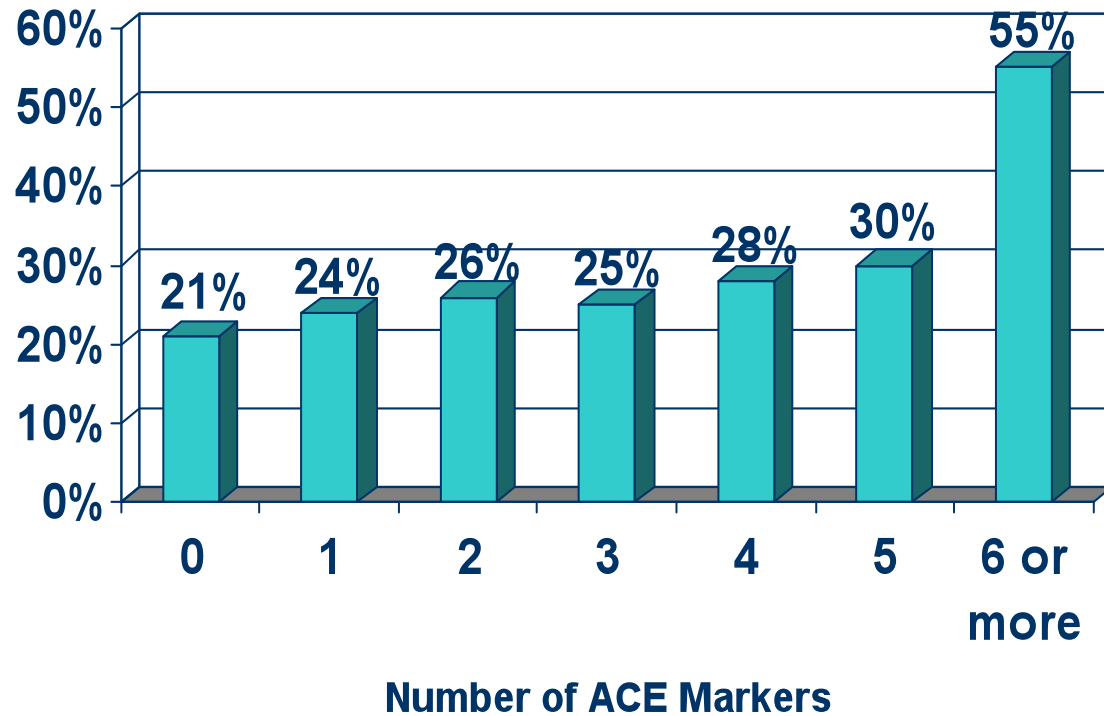
# Number of ACE Markers Vs. Difficulty Quitting Smoking



# Number of ACE Markers Vs. Overuse of Alcohol

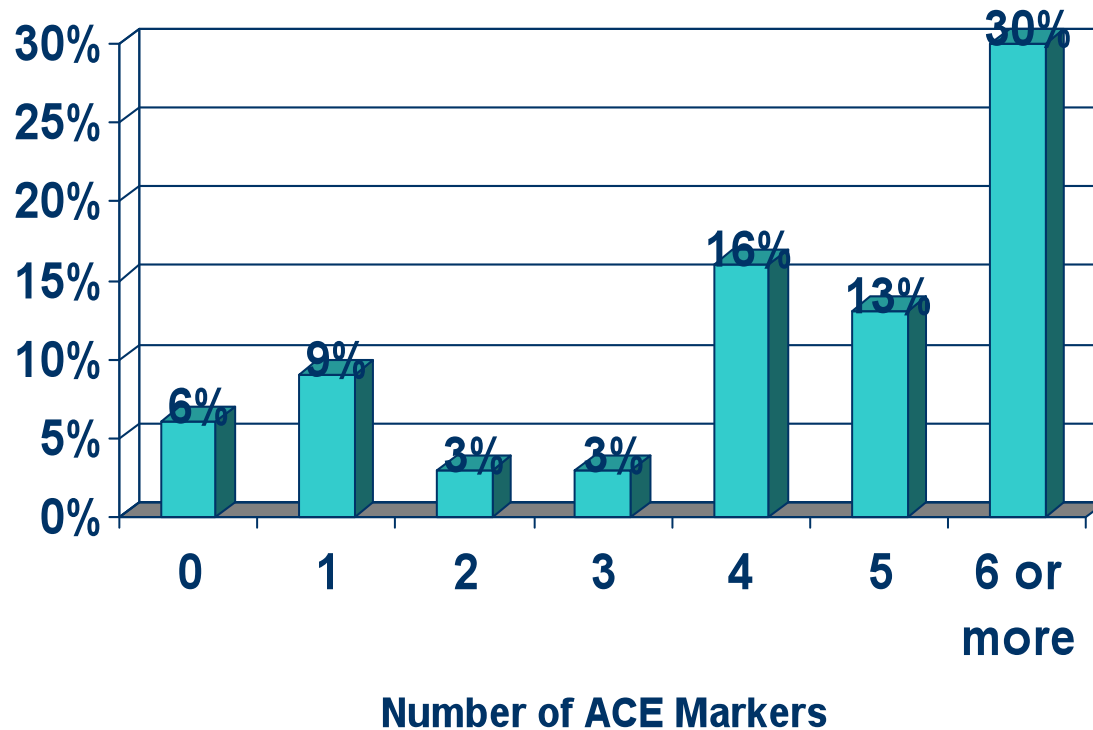


# Number of ACE Markers Vs. Street Drug Use

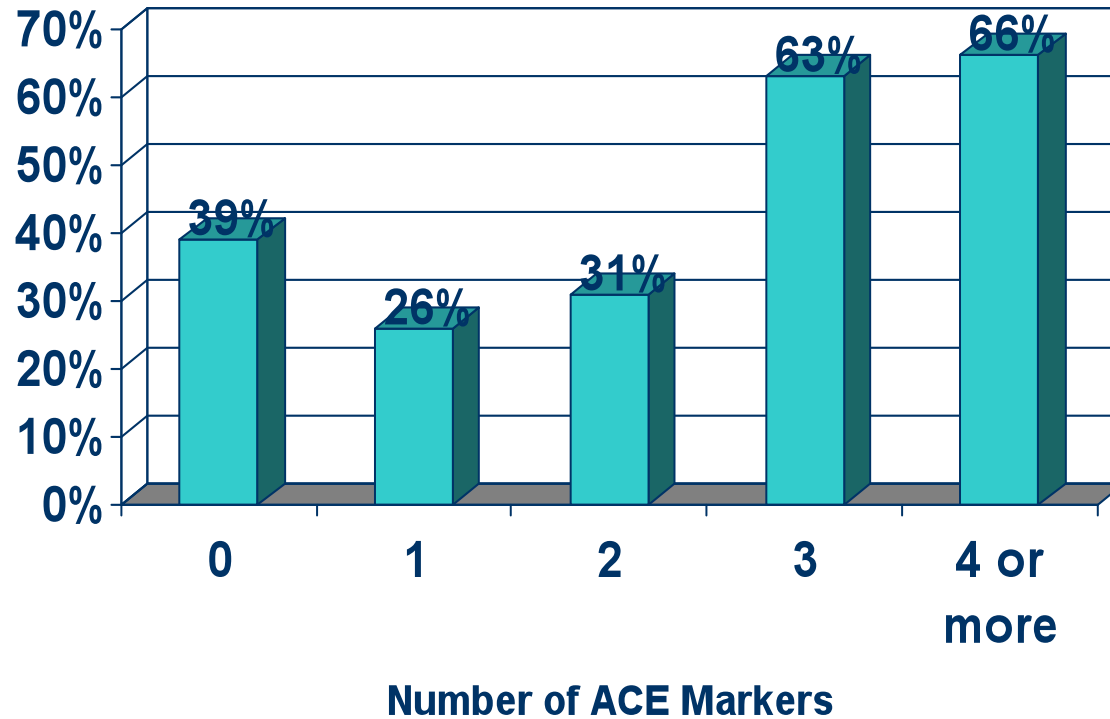




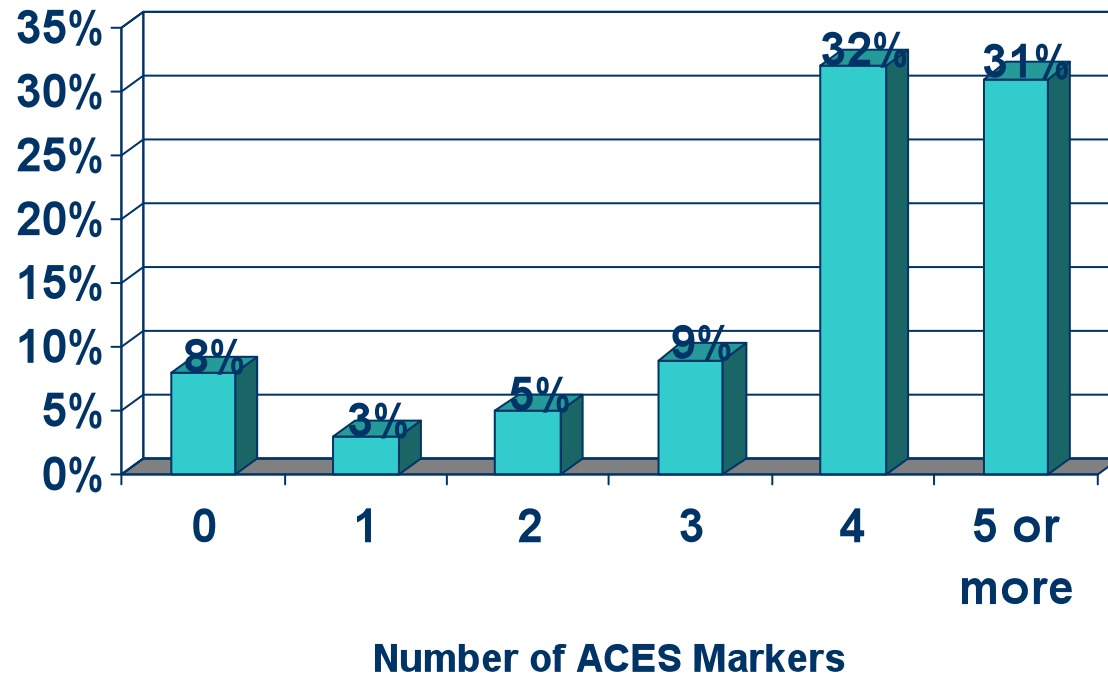
# Number of ACE Markers Vs. Overuse of Prescription Drugs



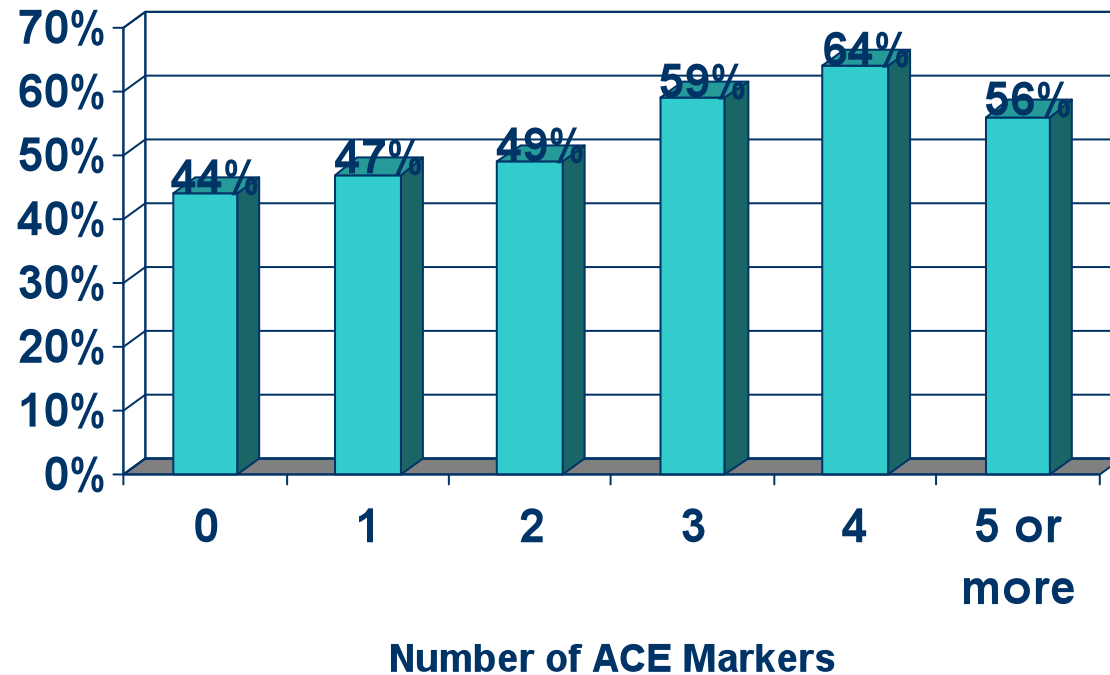
# Number of ACE Markers Vs. Depression



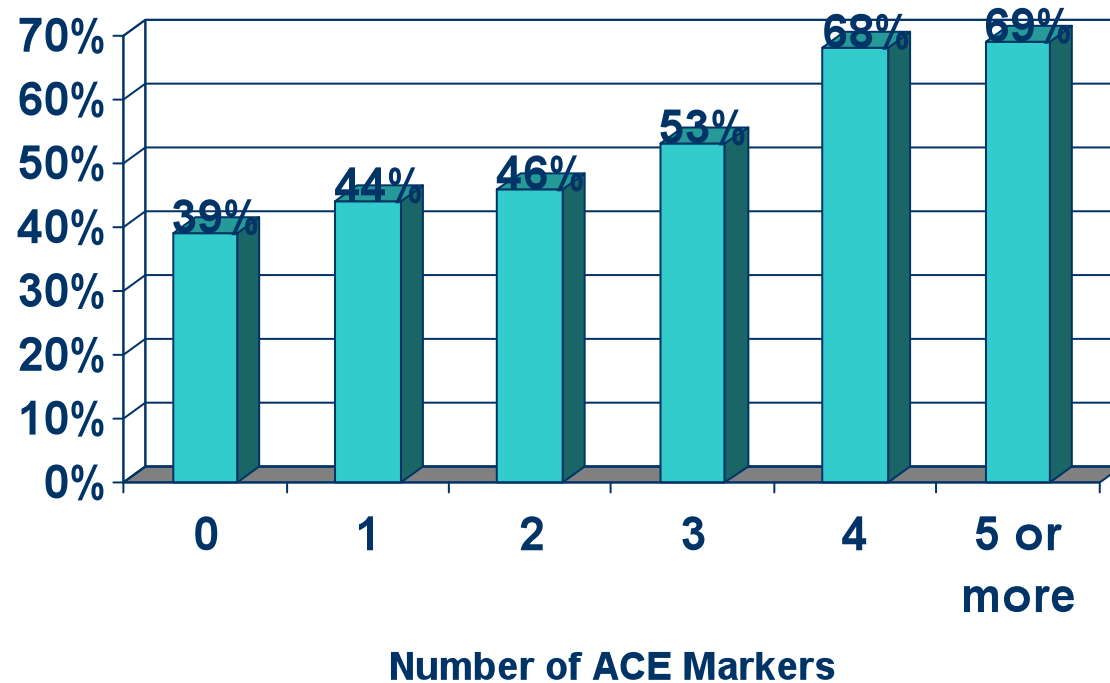
# Number of ACE Markers Vs. Difficulty with Anger Management



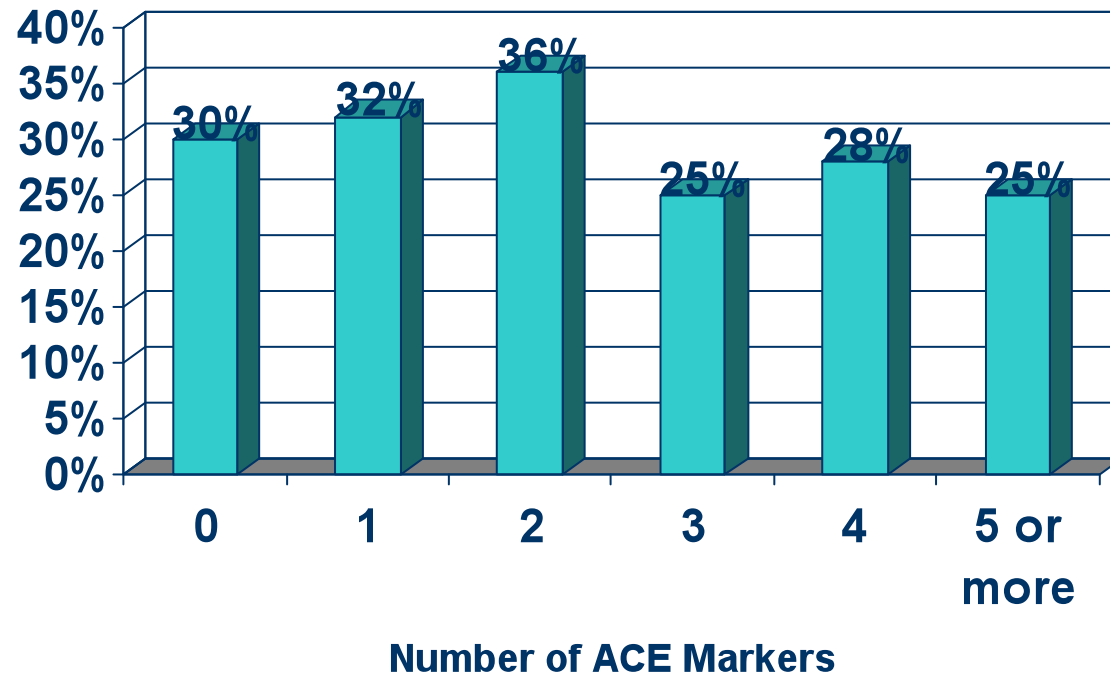
# Number of ACE Markers Vs. Being Overweight



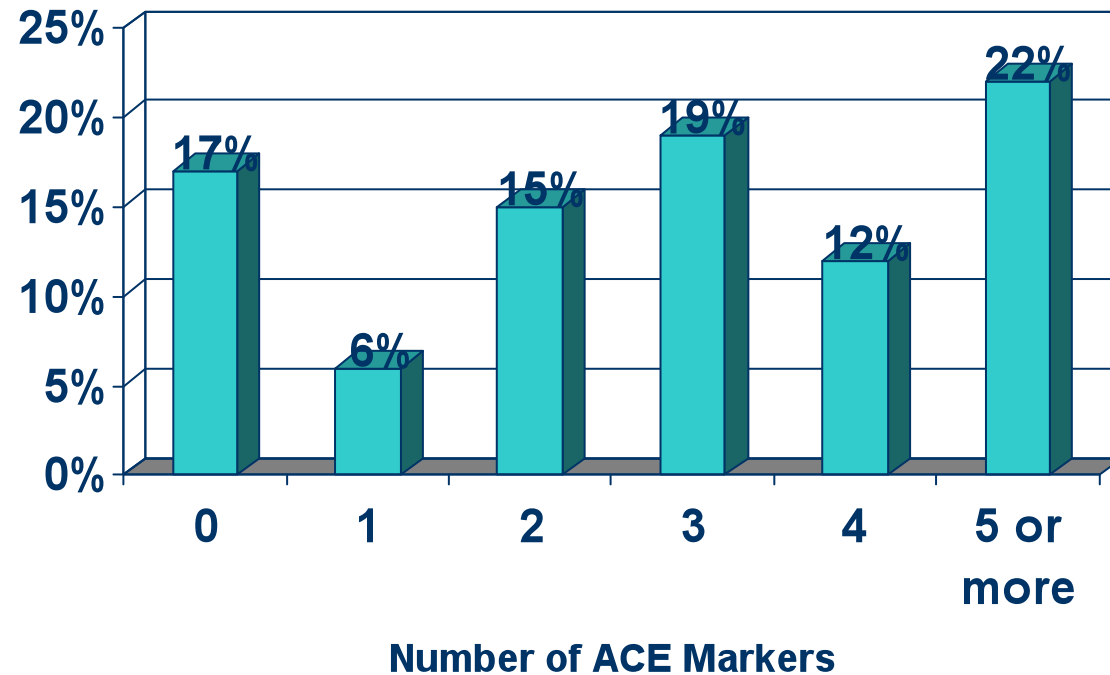
# Number of ACE Markers Vs. Lack of Sufficient Exercise



# Number of ACE Markers Vs. Coronary Health Disease & High Blood Pressure



# Number of ACE Markers Vs. Asthma



# Conclusions

- Surveys responses from a higher number of females, married individuals, younger age groups, and more highly educated than is represented in county as whole.
- Geographic spread of health conditions and individuals with 5 or more ACE markers around county.
- Difficult to see relationship between chronic health conditions and ACE in this data.
- Relationship can be seen between behavioral and mental health issues and ACE across respondents.



## Next Steps

Consider utilizing results to:

- Provide more education to the community about ACE.
- Plan prevention services.
- Plan intervention services.
- Work with medical community.

# Results of ACE Survey



Questions or Comments?

Ferron & Associates

May 19, 2010