#### Alcohol's Role in Marital Conflict and Violence

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> Journey Together September 6, 2023

**Disclosure Statement of Interest** 

Kenneth Leonard, Research Institute on Addictions

#### Sources of Research Support

- 1. NIAAA
- 2. NIDA
- 3. NIJ

#### **Consulting Relationships**

- 1. None
- 2.
- 3.

#### Stock Equity (> \$10,000)

- 1. None
- 2.
- 3.

#### Speaker's Bureau(s)

- 1. None
- 2.
- 3.

#### Outline

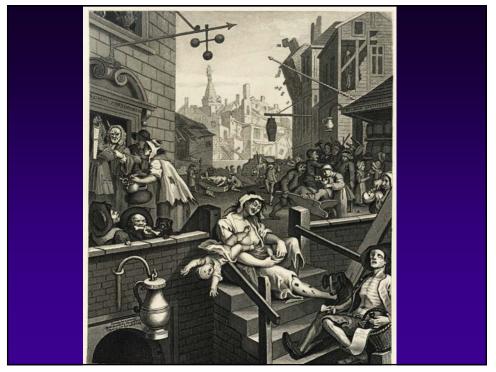
- A very brief history of people's views on alcohol and intimate partner violence
- The "causes" of violence and partner violence
- The distal relationship between alcohol and violence
- The proximal relationship between alcohol and violence
- Alcohol does not increase aggression in everyone
- The multiple thresholds model
- Treatment implications

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#### Netzahualcoyotl of Texcoco



 "It [alcohol] is like a tornado that destroys everything in its path. It is like a hellish tempest that brings with it all evils. Drunkenness ... causes violence among kinfolks. Yelling and brawls are caused by *octli* and its accompanying drunkenness (Soustelle, 1955 cited in Paredes, 1975

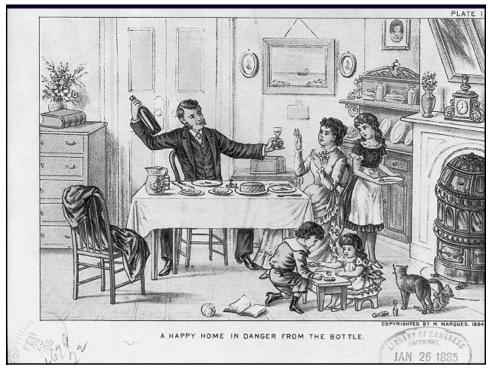


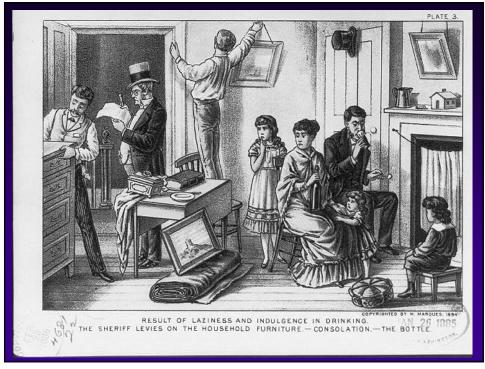


In 1815, Peter Lung of Middletown, Connecticut, beat his wife Lucy to death. There is said to have been a long 2 day, verbal and physical bout, resulting from both spouses' chronic intoxication.

At Lung's trial the presiding judge, Zephaniah Swift stated that "Excessive drinking the prevailing vice and the deepest disgrace of or country, constituted a major source of violence and domestic misery".



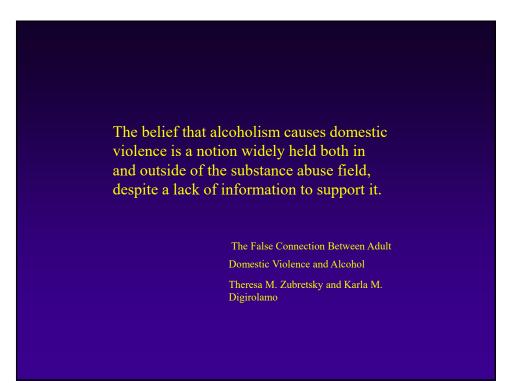






"Evidence from cross-cultural research, laboratory research, blood test of men arrested for wife beating, and survey research all indicates that although alcohol use may be associated with intimate violence, alcohol is not a primary cause of the violence. "

> Gelles, R.J. (1993) Alcohol and other drugs are associated with violence-they are not its cause. in R.Gelles and D. Loseke (Eds). <u>Current Controveries</u> <u>on Family Violence.</u> Newbury Park, CA ; Sage 182-196

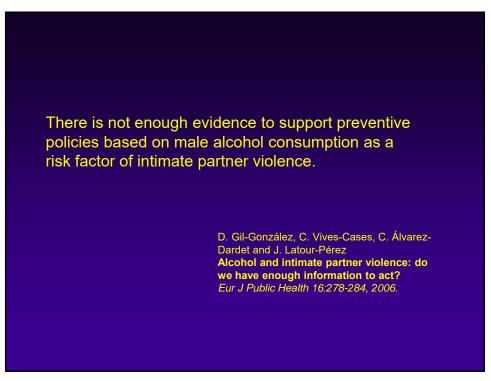




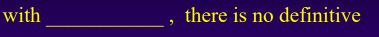
#### What about help for my partner?

What if he stops drinking or using drugs?

Even when men who batter stop drinking or using drugs, their violence most often continues. In fact, many battered women say that the violence got worse during substance abuse recovery. Alcohol and other drug abuse do not cause domestic violence, although batterers often use it as an excuse. Batterers who drink or use drugs have two separate problems— battering and substance abuse—that need to be dealt with separately.

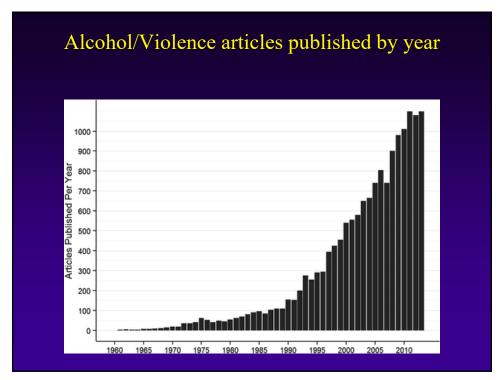


# Contemporary Controversy Although \_\_\_\_\_\_ appears to be associated



evidence that \_\_\_\_\_ causes \_\_\_\_!

In the absence of such causal evidence, it is unwarranted to try and change \_\_\_\_\_.



#### 'What methodology can demonstrate a causal relationship between excessive alcohol use and marital violence?'.

Cross-sectional

 NO- Overlap between excessive drinking and marital violence may occur because some third factor (e.g. hypermasculinity, need to control causes both)

- Sophisticated Longitudinal models
  - NO- even though many possible third factors can be ruled out, there is always the possibility that the critical third variable was omitted.
- Careful analysis of violent events to see if heavy drinking is associated with violent events
  - NO- some third factor could cause the heavy drinking and the violent event (e.g. acute stress).
- Experiments in which we randomly administer alcohol to some but not to others, and measure the outcome.
  - NO- our experiments can not ever be set up so that actual marital aggression is the outcome, there are ethical concerns and practical issues
- Treatment studies may remove or reduce a putative causal factor
  - NO- Simply because treating alcoholism may lead to reduced marital violence does not mean that alcohol caused the marital violence, the cause of a cure is not necessarily directly indicative of the cause of the disorder.

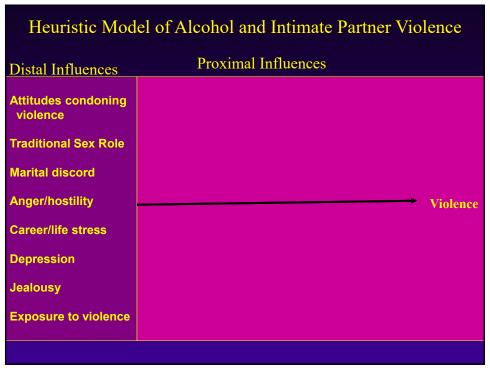
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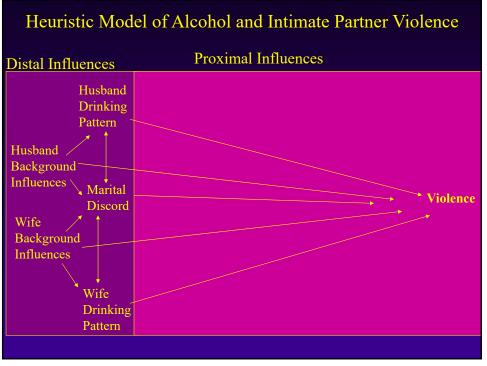
In short, there is no research design that will definitively demonstrate causality, particularly in the case of complex social behavior.

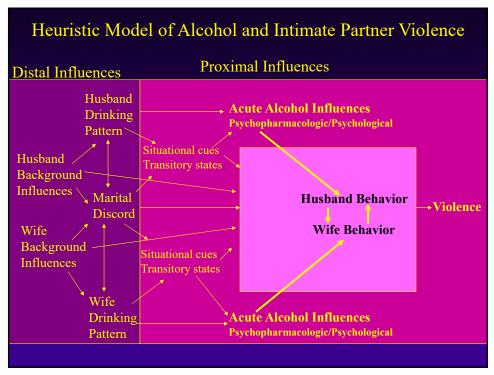
Causality is a judgment that is based on the convergence of evidence drawn from variety of sources, each with different limitations.

# What are the causes of intimate partner violence?

Fazel et al, 2018	OR	Spencer et al, 2020	r
Attitudes condoning violence	3.1 (2.7-3.6)	Approval of violence	.27
Traditional Sex Role	3.0 (2.5-3.6)	Traditional gender roles	.19
Marital discord	2.8 (2.6-3.0)	Relationship satisfaction	26
Anger/hostility	2.7 (2.3-3.1)	Anger	.32
Career/life stress	2.7 (2.0-3.6)	Stress	.16
Depression	2.4 (2.1-2.8)	Depression	.21
Jealousy	1.9 (1.5-2.4)	Jealousy	24
Exposure to violence	1.9 (1.8-2.1)	Witnessed violence/abused	.2425
Fazel, S., Smith, E. N., Chang, Z., & Geddes, J. F		interpersonal violence: an umbrella review of	
meta-analyses. The British Journal of Psychiatry,	213(4), 609-614.		
Spencer, C. M., Stith, S. M., & Cafferky, B. (2019) meta-analysis. Aggression and violent behavior, 4		al intimate partner violence victimization: A	







#### Epidemiological Criteria for Causality

- consistency of association
- strength of association
- dose-response
- temporality
- experiment
- plausibility and coherence



# Multi-country studies find alcohol a major risk factor

 Profiling Domestic Violence- Kishor and Johnson-Demographic and Health Surveys

- Nine countries- nearly 164,000 women
  - Asia- India, Cambodia
  - Africa-Egypt, Zambia
  - South America-Columbia, Peru
  - Central America- Nicaragua, Dominican Republic, Haiti
- "the relationship between the experience of violence by wives and the frequency of drunkenness among men who consume alcohol is ...highly significant in all countries where data on drunkenness are available."

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### Multi-country studies find alcohol a major risk factor

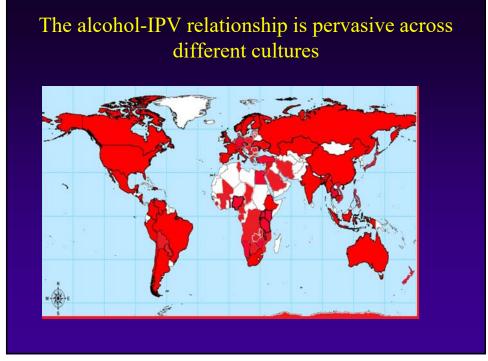
- WHO multi-country study of women's health and domestic violence- Abramsky et al (2011)
  - Eleven countries- 24,000 women
    - Asia- Bangladesh, Japan, Samoa, Thailand
    - Africa-Ethiopia, Namibia, Tanzania
    - South America-Brazil, Peru
    - Europe-Serbia, Montenegro
  - "Problematic alcohol use, among both women and their partners, is consistently and strongly associated with IPV."

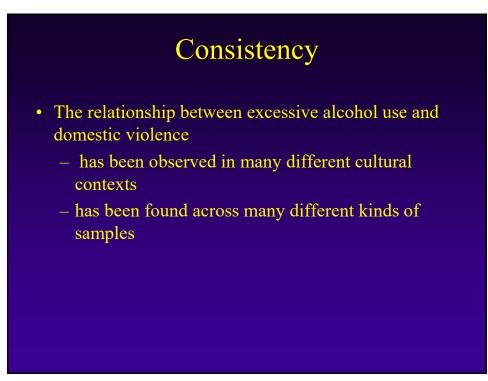
# Multi-country studies find alcohol a major risk factor

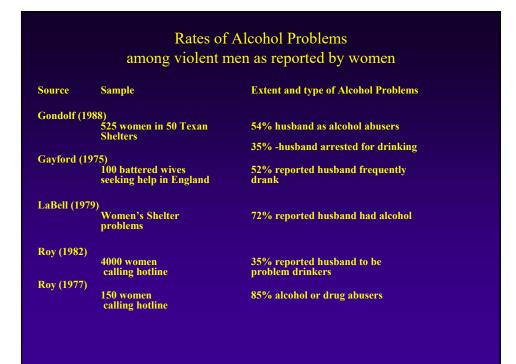
- Violence against women: An EU-Wide survey
  - 42,000 women across 28 EU member states
    - Violence among men who never get drunk 5%
    - Violence among men who get drunk monthly 23%
    - "The survey did find heavy alcohol use by perpetrators of domestic violence, but further analysis is needed to understand the relationship between alcohol and other factors that contribute to violence."

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# Multi-country studies find alcohol a major risk factor Kiwuwa-Muyingo and Kadengye, 2022 Demographic and Health Surveys from 2014-16 Six East Africa countries- nearly 33,646 women Burundi, Uganda, Ethiopia, Tanzania, Rwanda, Kenya "Women whose partners got drunk often were found to be up to nine times more likely to experience IPV compared to those whose partners did not drink."



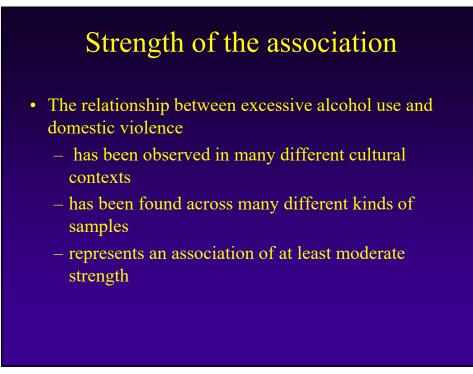




Violence in Alcoholic Populations			
Report	Sample	Percent Violent	
Scott (19	974)		
	100 married male alcoholics	45% ever	
Powers a	at al (1983)		
	77 VA inpatients in New Jersey	68% ever	
Gertenz	ang (1986)		
	44 VA and private hospital patients	93% past year	
Stith et a	al (1991)		
	52 alcohol treatment patients	59% past year	
Gondolf	& Foster (1991)		
	218 VA inpatients	39% past year	
Murphy	& O'Farrell (1994)		
	107 alcoholics in couples therapy	65% past year	







#### Strength of cross-sectional associations

- Lipsey, Wilson, Cohen, and Derzon 1997
  - 34 studies of domestic violence including child abuse
  - Effect size .22
- Stith, Smith, Penn, Ward, & Tritt, 2004
  - 22 studies of partner violence and alcohol use
  - Effect size .24
- Foran and O'Leary, 2008
  - 50 studies of partner violence and alcohol
  - Effect size .23

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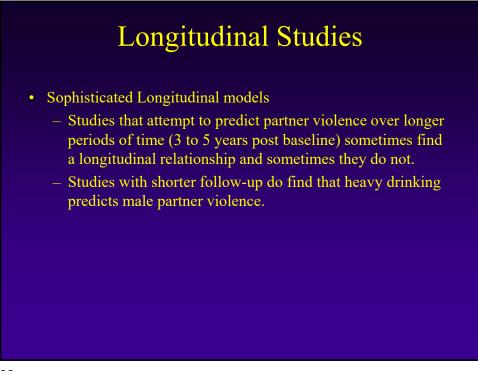
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Exposure to violence	1.9 (1.8-2.1)	Witnessed violence/abused	.2425
Alcohol use in perpetrator	4.6 (3.3-6.4)	Alcohol Use	.22

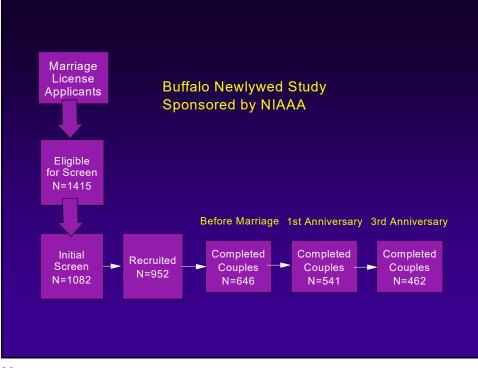
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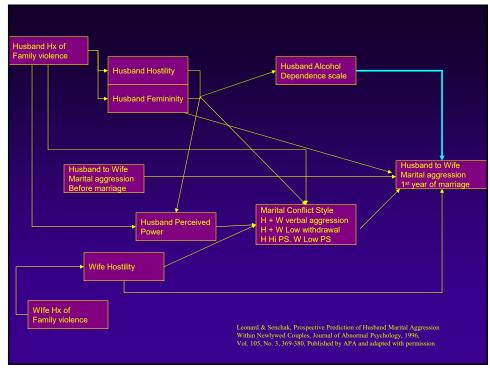
Spencer, C. M., Stith, S. M., & Cafferky, B. (2019), Risk markers for physical intimate partner violence victimization: A meta-analysis. Aggression and violent behavior, 44, 8-17.

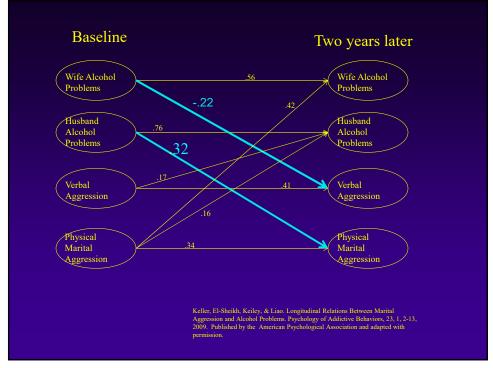
#### Key aspects of the alcohol/ domestic violence relationship.

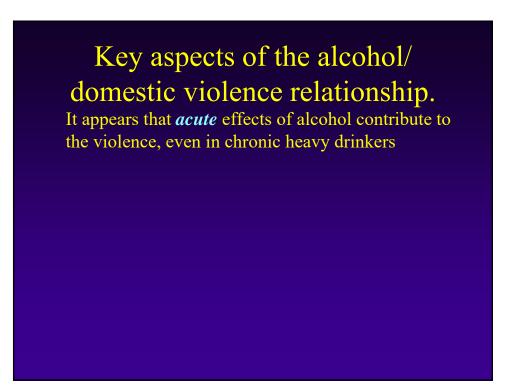
- The relationship between excessive alcohol use and domestic violence
  - has been observed in many different cultural contexts
  - has been found across many different kinds of samples
  - represents an association of at least moderate strength
  - observed in prospective studies

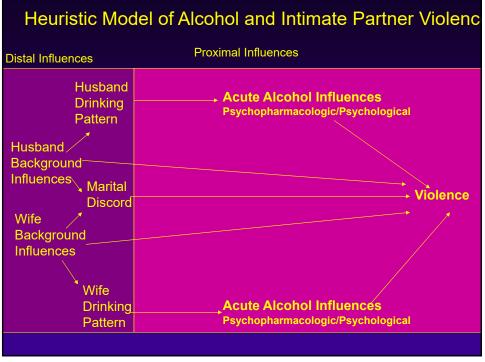




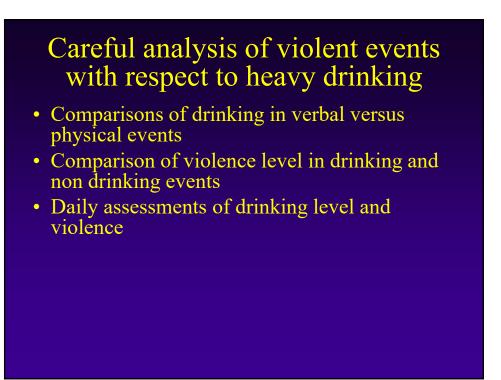




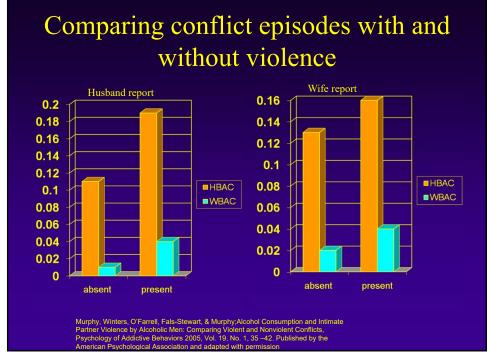


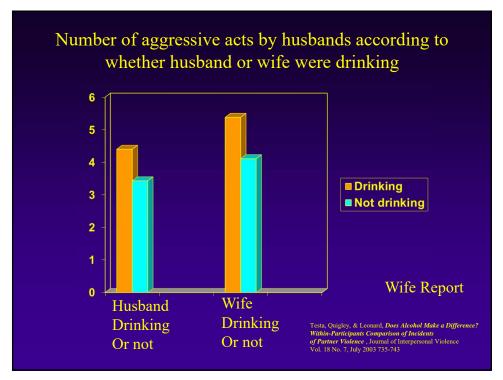










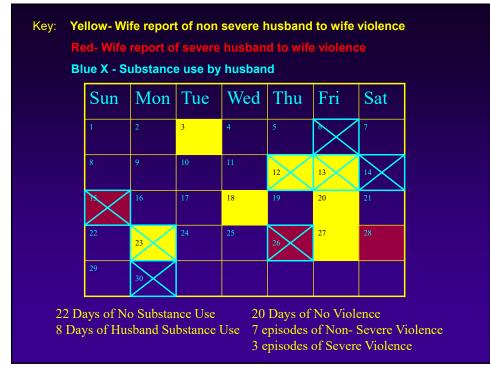


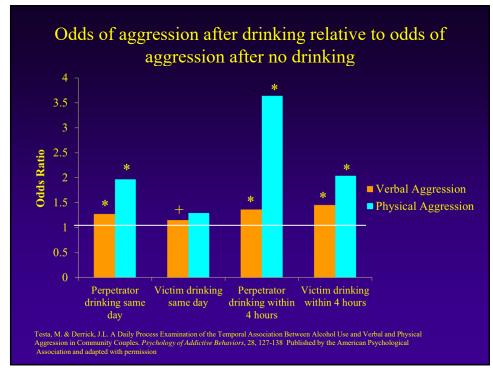
#### Alcohol involvement in Police-Citizen Encounters

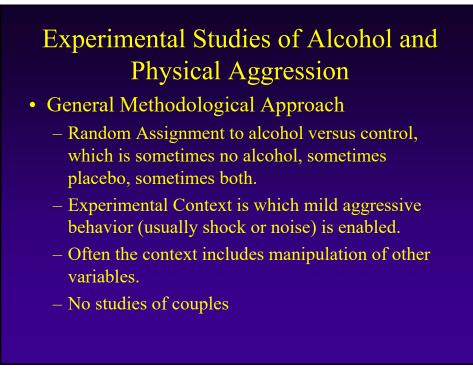
Crime Type	Percent Alcohol involved	Odds Ratio	Ν
Violent crime/sexual assault	43.3	2.5	250
Spousal Assault	43.4	2.5	103
Robbery	39.1	2.1 ns	36
Public order, vandalism	46.1	2.8	250
Nonviolent crimes	23.4		597

	Enco	unte	ers		
	Suspects		Victims		
Crime Type	Percent Intoxicated	n	Percent Intoxicated	n	OR
Violent Crime/sexual Assault	26.5	119	15.3	127	2.0
Spousal Assault	25.0	49	6.4	55	4.9
Robbery	14.8	14	18.0	28	.8 ns
Public order/vandalism	38.2	157	4.6	84	12.9
Nonviolent crimes	16.5	205	3.0	225	6.3

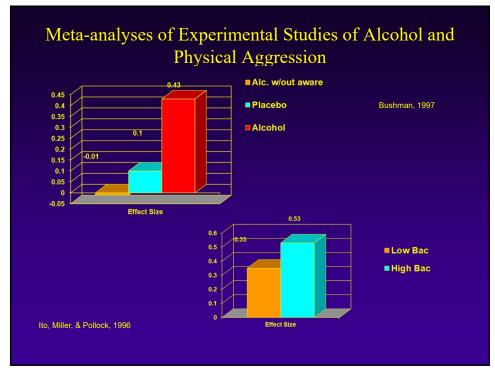










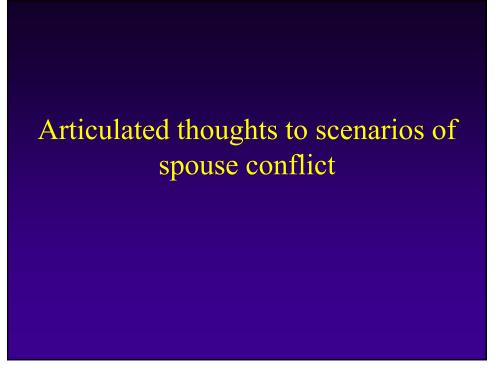


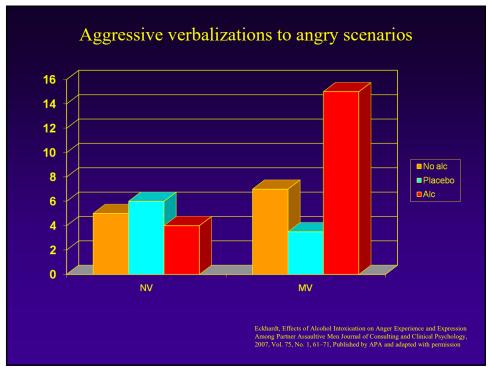


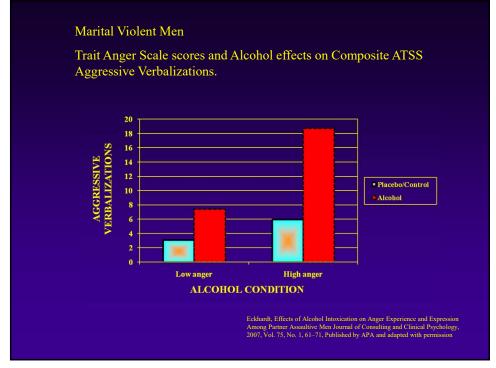
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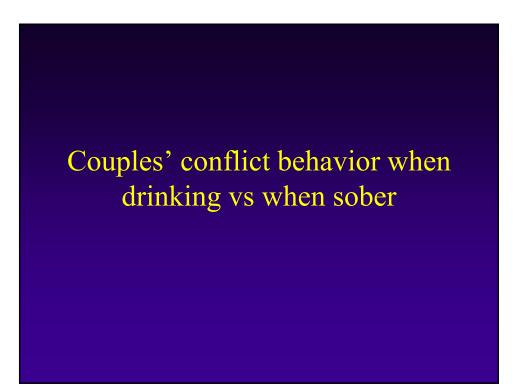
#### Experimental Studies of Alcohol and Aversive Verbal Behavior

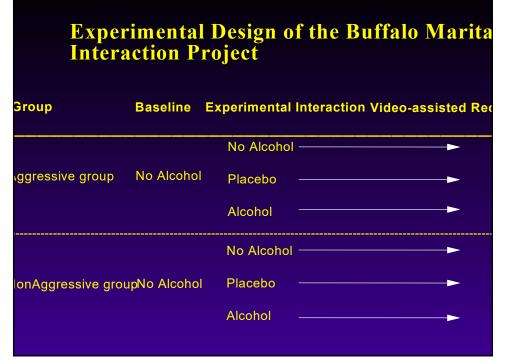
- Seen as more ecologically valid than other aggression paradigms
  - Less artificial than reaction time or teacher learner.
  - Verbal aggression more natural response than setting shock
  - Links between verbal aggression and physical aggression
  - Primarily has been used in studies of intimate partners.



















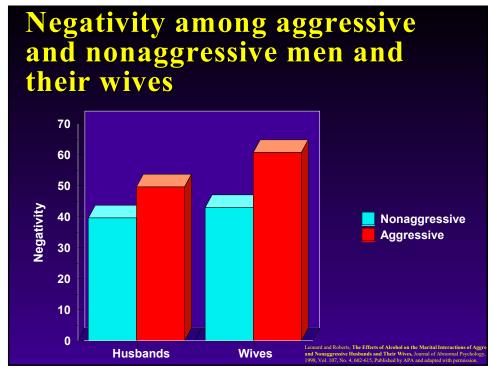


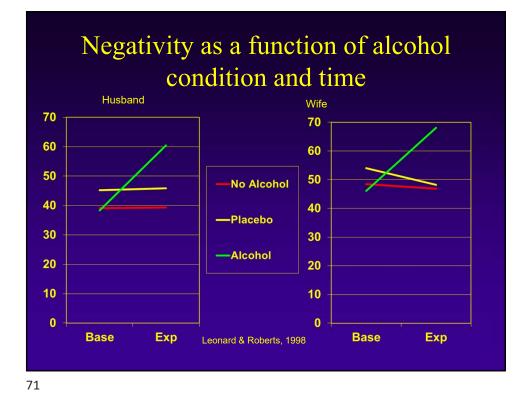
#### Marital Interaction Coding System

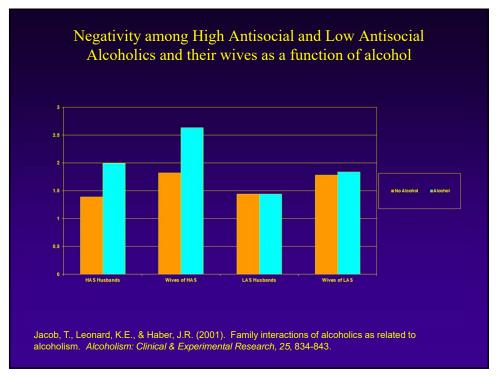
Negativity: Interrupt, Turn off, Disagree, Disapprove, Mindread Negative, Put Down, Command, Criticize, Noncomply

Problem Solving: Problem description, Question, Positive Solution, Negative Solution, Compromise

Postivity: Smile/Laugh, Humor



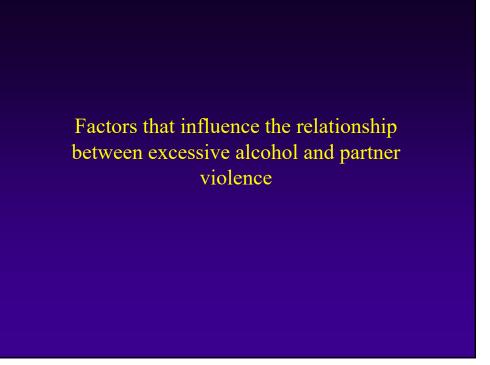


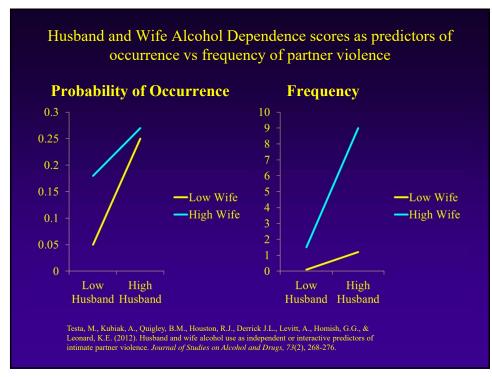


#### Key aspects of the alcohol/ domestic violence relationship.

- Alcohol contributes to the occurrence and severity of partner aggression
- But, alcohol does not increase violence for everyone, and it does not increase aggression every time it is consumed.
- The challenge for causality and intervention is to explain to identify when alcohol leads to aggression and when it does not, and to explain this.

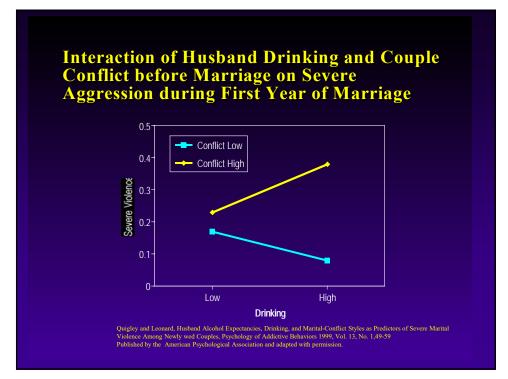


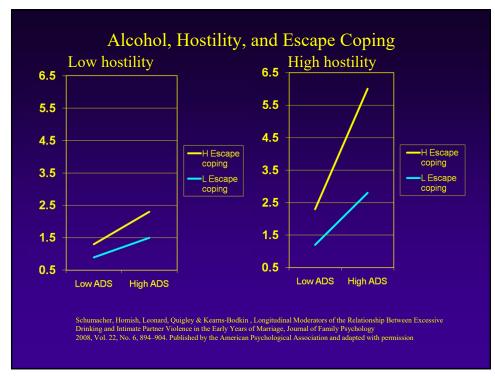




### Factors that increase the impact of alcohol on aggression

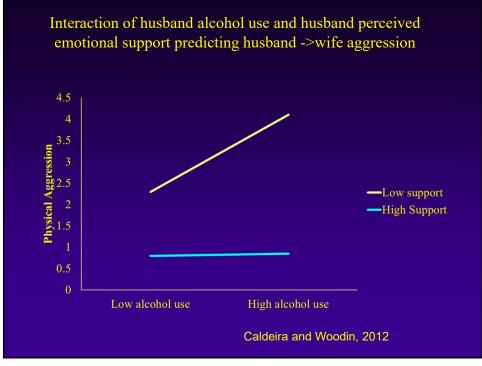
- Hostility (Leonard & Blane, 1992)
- Verbal aggression (Quigley and Leonard, 1999)
- Life stress (Margolin, John ,& Foo,1998)
- Negative affect (Leonard & Blane, 1992)
- Jealousy (Foran & O'Leary, 2008)
- Trait Displaced Aggression (Denson, White, & Warburton, 2009)
- Childhood Physical Abuse (Maldonado, Watkins, & DiLillo, 2015)

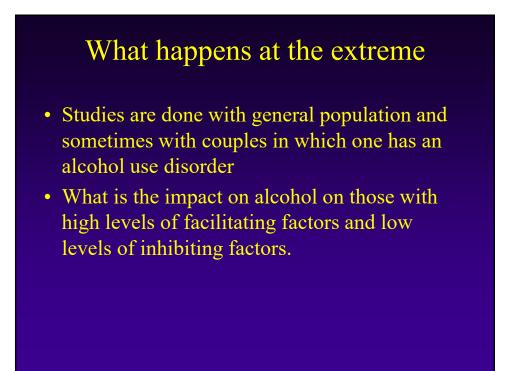


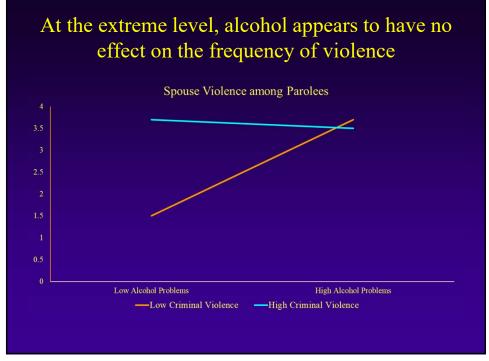


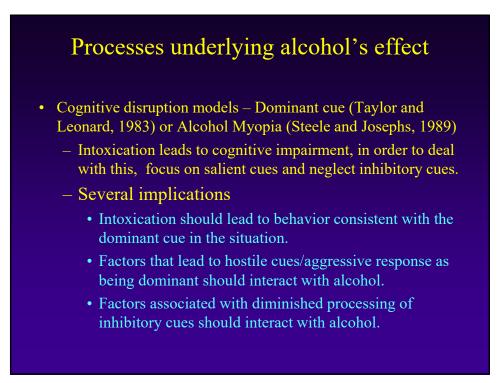
## Factors that decrease the impact of alcohol on aggression

- Marital satisfaction (Leonard & Blane, 1992)
- Social Support (Caldeira and Woodin, 2012)
- Mindfulness (Gallagher, Hudepohl, & Parrott, 2010)
- Cognitive Reappraisal Ability (Stappenback & Fromme, 2013)
- Impulse Control (Watkins, Maldonado, & DiLillo 2014)



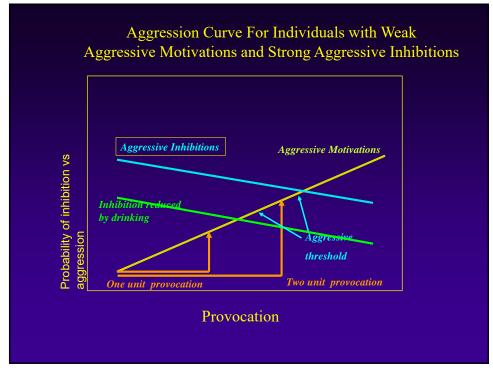


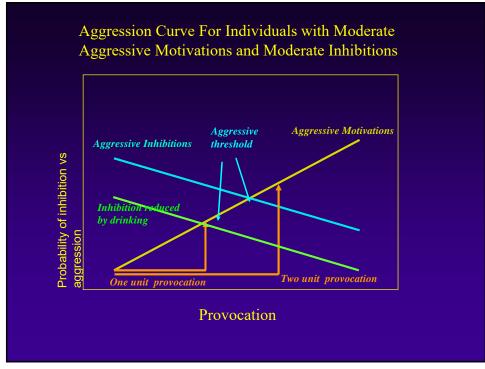


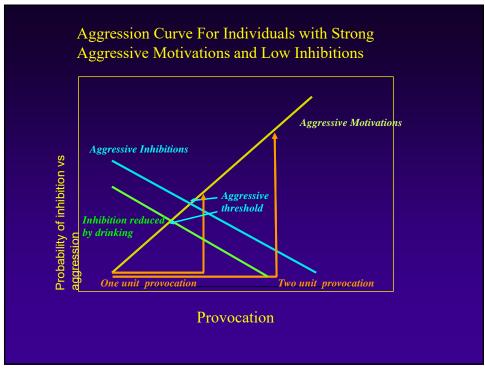


#### Multiple Thresholds Model: A consideration of the total load of instigatory and inhibitory factors

- Aggression occurs as a function of external provocations, aggressive motivations, and inhibitory processes.
- Provocation increases aggressive motivations and decreases aggressive inhibitions.
- The model assumes IPV occurs when an individual's aggression threshold is exceeded; that is, when the strength of the aggressive motivations exceeds the strength of the inhibitions.
- There may be multiple thresholds, e.g. moderate and severe aggression or a threshold and then a linear effect.
- Intoxication is hypothesized to lower these aggression thresholds by impairing inhibitions through its effect on cognitive functioning







#### Conclusions about factors that influence the causal impact of alcohol on violence

- Individuals with low aggressive motivations and high levels of inhibition are unlikely to be aggressive when drinking, unless there are high levels of provocation.
- Individuals with high aggressive motivations and low inhibition are aggressive even under low provocations, and alcohol does not impact the occurrence of aggression (although they may be more severe).
- Individuals with moderate aggressive motivations and moderate inhibitions are the most impacted by alcohol intoxication

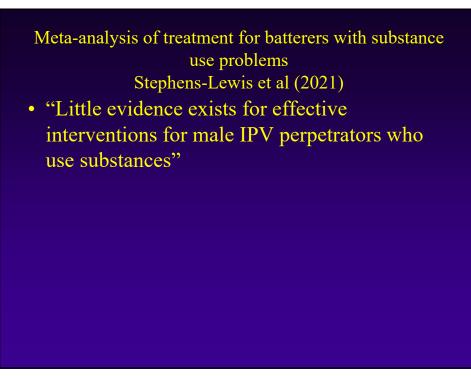


#### Meta-analysis of Treatment Studies of Batterers Babcock, Green, & Robie (2004)

Based on the experimental studies, the effect size (d) due to treatment is 0.09 and 0.12, based on victim report and police records, respectively. ....

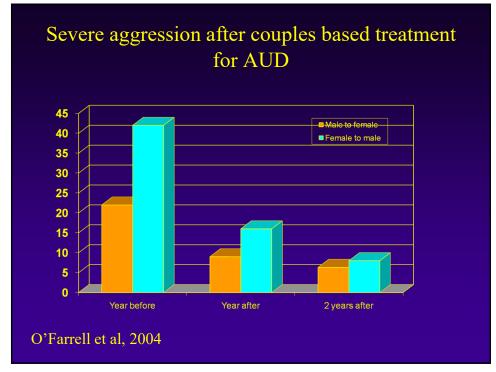
To a clinician, this means that a woman is 5% less likely to be reassaulted by a man who was arrested, sanctioned, and went to a batterers' program than by a man who was simply arrested and sanctioned.

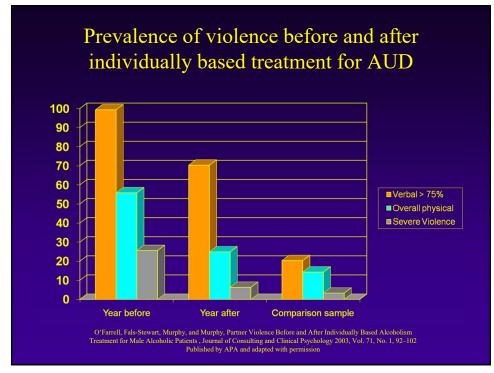
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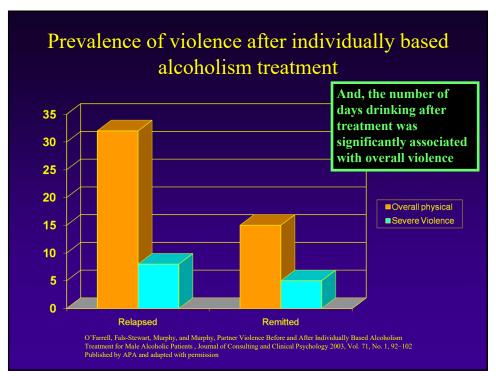


# What are the implications for treatment

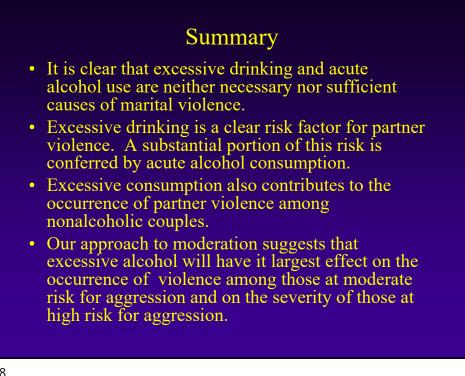
- These studies are based on largely on men referred to treatment for battering.
- However, there is some evidence that married individuals who present for treatment for alcohol problems reduce their aggressive behavior –if they maintain their sobriety.







What are the implications for treatment for individuals presenting for AUD or SUD treatment?



#### Acknowledgements

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