Sexual Minority Disparities in Interpersonal Violence and Co-occurring Disorders Among Women

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Presenter Disclosures

Sherry Lipsky, PhD, MPH

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No relationships to disclose

Sexual Minority Health

Healthy People 2020 and Institute of Medicine report on LGBT health stress need for research on alcohol use, violence, and other social influences affecting LGBT health





Why Sexual Minorities?

- ☐ Sexual minorities susceptible to stigma-related stressors ("minority stress")
 - > External Factors
 - Stigma/Discrimination/Prejudice
 - Internal processes
 - Expectations of rejection, internalized homophobia
 - Maladaptive copingEmotion dysregulation
 - ➤ Other Social Factors

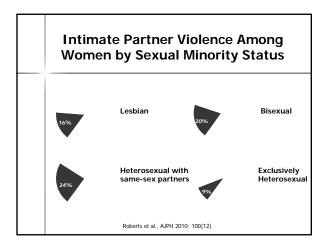
 - Social isolation/Low social supportSocial disadvantage
- ☐ Stressors increases risk for mental health problems (Meyer, 2003)
- ☐ Internal processes may mediate relationship between external factors and psychopathology (Hatzenbuehler, 2009)

Sexual Minority Health Among Women

- □ Elevated rates of
 - > Interpersonal violence (Roberts et al., 2010)
 - > Hazardous drinking/AUD (Cochran & Mays , 2000; Wilsnack et al., 2008)
 - > Psychiatric disorders (Bostwick et al., 2010; Cochran et al., 2003; Roberts et al., 2010)
- ? Increased risk of co-occurring psychiatric disorders (Cochran et al., 2003)

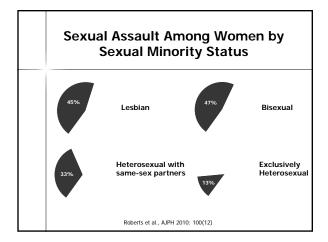
Intimate Partner Violence

- ☐ IPV likely functions as an acute or chronic stressor
 - > | PTSD, depression, PTSD/depression (Coker et al., 2002; Creamer et al., 2005; Golding, 1999; Kessler et al., 1995; Lipsky et al.,
 - ➤ | AUD (Coker et al., 2002; Golding, 1999)
- ☐ IPV more than twice as likely to occur among sexual minority women (Roberts et al., 2010)



Sexual Assault

- One of the most severe of traumatic experiences (Kessler et al., 1995)
- ☐ May cause long-term negative outcomes:
 - ➤ PTSD, depression, and generalized anxiety (Campbell et al., 2009; Temple et al., 2007; Clum et al., 2000)
 - Co-occurring PTSD & depression or problem drinking (Taft et al., 2009)
 - ➤ Alcohol use problems/problem drinking (Ullman et al., 2005)
- 2-3 times more likely among sexual minority women



Mood & Anxiety Disorders Among Women by Sexual Minority Status

	Any Lifetime Mood Disorder	Any Lifetime Anxiety Disorder
	Odds Ratio (95% CI) ¹	Odds Ratio (95% CI) ¹
Sexual Identity		
Lesbian	1.5 (1.01, 2.3)	1.4 (0.9, 2.1
Bisexual	2.6 (1.8, 3.8)	2.7 (1.8, 4.0)
Heterosexual	Reference	Reference
Lifetime Sexual Partn	iers	
Only females	0.6 (0.4, 0.9)	0.6 (0.4, 1.0
Females & males	2.3 (1.8, 2.9)	2.0 (1.5, 2.5
Only males	Reference	Reference

¹ Adjusted for race, age, educational status, employment status, marital status, and health insurance Adapted from Bostwick et al., AJPH 2009; 99(10)

Past Year Heavy Drinking and Alcohol Dependence Among Women by Sexual Minority Status

	Past Year Heavy Drinking	Past Year Alcohol Dependence
	Odds Ratio (95% CI)1	Odds Ratio (95% CI)1
Sexual Identity		
Lesbian	1.6 (0.9, 2.9)	3.6 (1.8, 7.3)
Bisexual	1.6 (1.0, 2.6)	2.9 (1.6, 5.5)
Heterosexual	Reference	Reference
Lifetime Sexual Par	tners	
Only females	1.7 (0.9, 3.4)	1.3 (0.5, 3.1)
Females & males	1.8 (1.3, 2.4)	2.7 (1.7, 4.1)
Only males	Reference	Reference
1		

¹ Adjusted for race, age, education, personal income, employment, relationship status, health insurance, geographic location, MSA, age at alcohol orset, and family history of substance use problems.
Adapted from McCabe et al., Addition 2009, 104.

Past Year Co-Occurring Disorders¹ Among Women by Sexual Minority Status

	Lesbian/ Bisexual	Heterosexual	
	%	%	Odds ratio (95% CI) ²
At Least 1 Disorder	43.7	24.6	1.86 (0.75–4.57)
2 or More	23.5	7.7	2.88 (1.02–8.15)

- ¹ Major depression, generalized anxiety disorder, panic disorder, alcohol dependence,
- other drug dependence

 2 Adjusted for age, level of education, relationship status (married/cohabiting vs. not), and race

Adapted from Cochran et al., J Consulting Clinical Psychology, 2003: 71(1)

Co-Occurring Alcohol Use and Psychiatric Disorders

- ■Psychiatric comorbidity
 - ➤ More severe clinical course than AUD or another psychiatric disorder alone (Kessler, 2004; Najavits et al., 1997)
 - ➤ Greater public health burden due to increased treatment utilization (Kessler et al., 1996)

Study Objective

Examine the relationship between adult onset co-occurring alcohol use and mood or anxiety disorders and adult onset traumatic IPV or sexual assault by sexual minority status

Study Methods

- □ National Epidemiologic Survey on Alcohol and Related Conditions (NESARC)
- ☐ Household survey of civilian, noninstitutionalized adult population in U.S.
- □Wave 1 conducted in 2001 2002
- ☐ Wave 2 in 2004 2005: respondents from Wave 1 re-interviewed
- ☐ One adult randomly selected for interview in each household

Measures: Sexual Orientation and Behavior

- ☐ Sexual orientation: Respondents were asked 'Which of the categories on the card best describes you': heterosexual, bisexual, lesbian or gay, or not sure
- ☐ Sexual behavior. Respondents were asked about the sex of their partners over their lifetime: only males, only females, or both

Measures: Potentially Traumatic Experiences

- From a list of 'potentially traumatic experiences' designed to measure PTSD
- ☐ /PV: Physically attacked or badly beaten up or injured by spouse or partner in lifetime (18+ years of age at first event)
- ☐ Sexual Assault: Assaulted, molested, raped or experienced unwanted sex (18+)

Measures: Alcohol Use and Psychiatric Disorders

- $\hfill \Box$ Adult onset alcohol abuse and/or dependence (AUD) and
 - ➤ Depressive disorder or
 - ➤ Anxiety disorder
- ☐ A co-occurring disorder (COD) is defined as having adult onset of alcohol use and mood or anxiety disorder during one's lifetime
- ☐ Based on the Alcohol Use Disorder and Associated Disabilities Schedule – Diagnostic and Statistical Manual of Mental Disorders – Fourth Edition (AUDADIS-IV)

Sample Characteristics: Sexual Orientation and Behavior

Sexual orientation (Current)	N (%) ¹	
Heterosexual	19,489 (98.5)	
Bisexual	161 (0.8)	
Lesbian	145 (0.7)	
Sexual behavior (Lifetime partners)		
Males only	18,904 (97.0)	
Both	445 (2.1)	
Females only	177 (0.9)	
¹ Unweighted n, weighted percent		

Sample Characteristics: Co-Occurring AUD & Depressive Disorders

	AUD	Depressive Disorder	Both
	N (%) ¹	N (%) ¹	N (%)1
Sexual Orientation	1		
Heterosexual	1839 (10.5)	3151 (17.1)	1212 (6.9)
Bisexual	29 (29.0)	24 (19.5)	16 (14.0)
Lesbian	37 (31.0)	19 (12.7)	20 (23.7)
Lifetime Sex Partn	iers		
Males only	1756 (10.4)	3077 (17.2)	1172 (6.9)
Both	98 (30.2)	56 (14.1)	68 (23.4)
Females only	42 (23.7)	14 (7.7)	8 (6.1)

Sample Characteristics: Co-Occurring AUD & Anxiety Disorders

	AUD	Anxiety Disorder	Both
	N (%)1	N (%)1	N (%)1
Sexual Orientation			
Heterosexual	1489 (9.6)	3322 (20.2)	1025 (6.7)
Bisexual	22 (21.3)	28 (25.3)	23 (25.3)
Lesbian	28 (30.8)	16 (14.6)	16 (20.3)
Lifetime Sex Partners			
Males only	1426 (9.5)	3426 (20.2)	988 (6.6)
Both	70 (24.9)	63 (19.6)	62 (26.5)
Females only	36 (21.5)	17 (11.5)	13 (9.4)
¹ Unweighted n, weighted row per	ent		

Co-Occurring Alcohol Use and Psychiatric Disorders Among Women by Traumatic IPV

	Depressive Disorders		Anxiety Disorders	
	IPV %	No IPV %	IPV %	No IPV %
Neither diagnosis	39.7	67.4	33.2	65.7
AUD	15.2	10.3	13.1	9.5
Psychiatric disorder	25.9	16.3	34.8	19.0
Both	19.2	6.0	18.9	5.9
	Chi-squa	re p<.001	Chi-squar	e p<.001

Co-Occurring Alcohol Use and Psychiatric Disorders Among Women by Traumatic SA

	Depressive Disorders		Anxiety Disorders	
	SA %	No SA %	SA %	No SA %
Neither diagnosis	40.1	68.6	37.9	66.2
AUD	13.6	10.3	13.5	9.3
Psychiatric disorder	28.1	15.5	31.2	18.9
Both	18.2	5.5	17.5	5.6
	Chi-squa	re p<.001	Chi-squar	re p<.001

Co-Occurring Alcohol Use and Depressive Disorders Among Women: Sexual Orientation & IPV

□COD by IPV¹

➤ Heterosexual women: 19% vs. 6%➤ Bisexual women: 36% vs. 9%➤ Lesbian women: 17% vs. 25% (ns)

¹ Significant difference (p<.05) *within sexual orientation group* by IPV and diagnostic category (neither disorder, alcohol only, depressive disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Depressive Disorders Among Women: Lifetime Sex Partners & IPV

□COD by IPV¹

- ➤ Male partners only:
 - ❖ 19% vs. 6%
- > Both male & female partners:
 - ❖ 33% vs. 21% (ns)
- > Female partners only:
 - ❖ 0% vs. 6% (ns)

Co-Occurring Alcohol Use and Depressive Disorders Among Women: Sexual Orientation & SA

□COD by Sexual Assault¹

≻Heterosexual women: 18% vs. 5%
≻Bisexual women: 27% vs. 7%
≻Lesbian women: 29% vs. 20% (ns)

¹ Significant difference (p<.05) within sexual orientation group by SA and diagnostic category (neither disorder, alcohol only, depressive disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Depressive Disorders Among Women: Lifetime Sex Partners & SA

□COD by Sexual Assault

- ➤ Male partners only:
 - ❖ 18% vs. 5%
- > Both male & female partners:
 - ❖ 26% vs. 21% (ns)
- > Female partners only:
 - ❖ 33% vs. 4%

Significant difference (p<.05) within sexual partners group by SA and diagnostic category (neither disorder, alcohol only, depressive disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Depressive Disorders Among Women with Traumatic IPV, by Sexual Orientation

	Heterosexual	Bisexual	Lesbian
	%	%	%
Neither diagnosis	40.4	2.7	36.5
AUD	14.8	24.6	35.6
Depressive disorder			
	26.0	36.4	10.5
Both	18.8	36.3	17.4
Chi-square p<.05			

Co-Occurring Alcohol Use and Depressive Disorders Among Women with Traumatic IPV, by Lifetime Sex Partners

	Males Only %	Both %	Females Only %
Neither diagnosis	40.5	23.6	61.4
AUD	14.7	23.8	38.6
Depressive disorder	26.0	19.7	0
Both	18.7	32.9	0

Chi-square p<.05

Co-Occurring Alcohol Use and Depressive Disorders Among Women with Traumatic SA, by Sexual Orientation

	Heterosexual	Bisexual	Lesbian
	%	%	%
Neither diagnosis	40.6	25.2	29.7
AUD	13.3	22.2	28.0
Depressive disorder			
	28.4	25.6	13.7
Both	17.7	27.1	28.6
Chi-square p<.05			

¹ Significant difference (p<.05) within sexual partners group by IPV and diagnostic category (neither disorder, alcohol only, depressive disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Depressive Disorders Among Women with Traumatic SA, by Lifetime Sex Partners

	Males Only %	Both %	Females Only %
Neither diagnosis	40.7	29.6	26.1
AUD	12.9	27.1	34.7
Depressive disorder	28.4	16.9	6.3
Both	17.9	26.4	33.0
Chi-square p<.001			

Summary - I

- □ COD greater among bisexual- & lesbian-identified women and women with lifetime male and female partners
- ☐ Women experiencing traumatic IPV or SA more likely to have psychiatric disorder or COD
- ☐ Increased COD with:
 - > IPV and SA among heterosexual & bisexual women
 - > IPV among women with male partners only
 - SA among women with male partners only & female partners only

Summary - II

- ☐ Among women with IPV, highest prevalence of COD among bisexual-identified women & women with male & female partners
- ☐ Among women with SA, highest prevalence of COD among bisexual- & lesbian-identified women & women with male & female partners or female partners only

Conclusions

- ☐ COD and IPV/SA 'associated' will require longitudinal data to understand causal relationship
- COD prevalence and associations with IPV & SA vary depending on sexual minority status measures

Implications

- □ Identifying risks associated with poor outcomes in an environment of violence and trauma can inform the development of prevention and intervention efforts
- ☐ Strengthen program and policy recommendations for mental health screening & intervention among sexual minority women
- ☐ Focus on the development of gender and sexual minority-specific and sensitive violence prevention programs

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Supplementary Slides

Co-Occurring AUD and Anxiety Disorders

Co-Occurring Alcohol Use and Anxiety Disorders Among Women: Sexual Orientation & IPV

□ COD by IPV:

≻Heterosexual women: 19% vs. 6%
≻Bisexual women: 40% vs. 23% (p=.05)
≻Lesbian women: 16% vs. 21% (ns)

Significant difference (p<.05) within sexual orientation group by IPV and diagnostic category (neither disorder, alcohol only, anxiety disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Anxiety Disorders Among Women: Lifetime Sex Partners & IPV

□ COD by IPV:

- > Male partners only:
 - ❖ 18% vs. 6%
- > Both male & female partners:
 - * 36% vs. 24%
- > Female partners only:
 - ❖ 5% vs. 10% (ns)

Significant difference (p<.05) within sexual partners group by IPV and diagnostic category (neither disorder, alcohol only, anxiety disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Anxiety Disorders Among Women: Sexual Orientation & SA

□ COD by Sexual Assault:

➤ Heterosexual women: 17% vs. 6%➤ Bisexual women: 35% vs. 20%➤ Lesbian women: 28% vs. 15% (ns)

Significant difference (p<.05) within sexual orientation group by SA and diagnostic category (neither disorder, alcohol only, anxiety disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Anxiety Disorders Among Women: Lifetime Sex Partners & SA

□ COD by Sexual Assault:

- ➤ Male partners only:
 - * 17% vs. 5%
- > Both male & female partners:
 - * 28% vs. 25%
- > Female partners only:
 - ❖ 16% vs. 9% (ns)

Significant difference (p<.05) within sexual partners group by SA and diagnostic category (neither disorder, alcohol only, anxiety disorder only, both disorders) unless otherwise noted.

Co-Occurring Alcohol Use and Anxiety Disorders Among Women with Traumatic IPV, by Sexual Orientation

	Heterosexual	Bisexual	Lesbian
	%	%	%
Neither diagnosis	33.7	0	27.7
AUD	13.0	13.8	30.0
Anxiety disorder	34.7	46.6	26.3
Both	18.6	39.7	16.0

Chi-square p: ns

Co-Occurring Alcohol Use and Anxiety Disorders Among Women *with* Traumatic IPV, by Lifetime Sex Partners

	Males Only %	Both %	Females Only %
Neither diagnosis	34.1	16.5	36.0
AUD	12.9	15.7	33.6
Anxiety disorder	34.7	31.6	25.3
Both	18.2	36.1	5.1
BUIT	10.2	30.1	5.1
Chi-square p<.05			

Co-Occurring Alcohol Use and Anxiety Disorders Among Women *with* Traumatic SA, by Sexual Orientation

	Heterosexual	Bisexual	Lesbian
	%	%	%
Neither diagnosis	38.9	11.3	18.5
AUD	13.2	16.6	29.4
Anxiety disorder	31.2	36.8	24.3
Both	16.8	35.3	27.8
Chi-square p<.01			

Co-Occurring Alcohol Use and Anxiety Disorders Among Women *with* Traumatic SA, by Lifetime Sex Partners

	Only	Both	01
	,	Dotti	Only
	%	%	%
Neither diagnosis	38.6	18.1	37.3
AUD	13.1	21.1	40.0
Anxiety disorder	31.2	32.6	6.4
Both	17.1	28.1	16.3