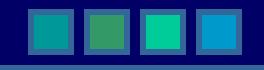


Missing Data: Inclusion of sexual and gender identity items on a general population survey

> Allegra R. Gordon and Heather Batson Philadelphia Health Management Corporation

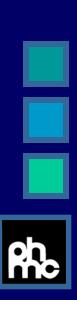
APHA Annual Meeting ~ November 7, 2007





Overview: Key Questions

- What happens when a regional populationbased survey includes questions on sexual identity and sexual partners?
- What does this LGB population look like?
- How does the self-identified LGB population overlap (and not) with those who report same sex behaviors?
- How do we begin to think about adding valid gender identity questions to population-based surveys?



Background Sexual Orientation Qs & Population Surveys

- Previous population-based research on sexual minority populations has:
 - Identified important health disparities btwn LGBT and non-LGBT populations
 - HP2010 Companion Document, 2001; Institute of Medicine, 1999
 - Supported advocacy for equal access to and improved quality of care for LGBT populations
 - Demonstrated sexual behavior not a predictor of sexual identity and vice-versa
 - Laumann et al., 1997; Pathela et al. 2006

Methodology Southeastern Pennsylvania Household Health Survey

- Cross-sectional telephone survey of health status, health behaviors, access to care
 - Population-based random-digit dialed sample
 - n=10,100 adults, ages 18+
- Fielded: June Sept 2006
- Interviews conducted in English & Spanish
- Sample weights were constructed accounting for the respondents' age, gender, income, and race.

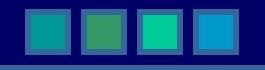




Key Measures

- Self-reported sexual identity
 - Which of these best describes you...
 - Heterosexual or straight,
 - Homosexual or gay,
 - Bisexual, or
 - Something else?
- Gender of sexual partners in past year
 - In the past year, have your sexual partners been male, female, or both?
 - Included (voluntary) response category: No sex partners / Not currently in sexual relationship





Sexual Identity & Gender of Sex Partners

Self-reported sexual identity

LGB-identified	2.1%	(n=201)
Heterosexual-identified	97.4%	(n=9,510)
"Something else"	0.5%	(n=52)
Decline to answer	1.2%	(n=116)

Gender of sexual partners, past year

- Same-sex or both
- Different-sex partners
- No sex partners
- Decline to answer

2.5% (n=248)
78.5% (n=7,758)
17.0% (n=1,683)
1.9% (n=190)

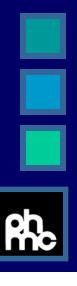


Gay/Lesbian and Bisexual Identity by Gender

	Gay/Lesbian n (%)	Bisexual n (%)	Total LGB Subgroup n (%)
Men	83	28	111
	(65.9%)	(37.3%)	(55.4%)
Women	43	47	90
	(34.1%)	(62.7%)	(44.6%)
Total	126	75	201
	(100.0%)	(100.0%)	(100.0%)



Identity-Based Measure



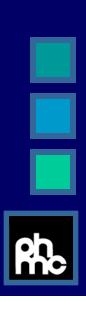
LGB vs. Heterosexual Populations: Demographic Differences

No Differences By:

- Gender
- Race/Ethnicity
- Income

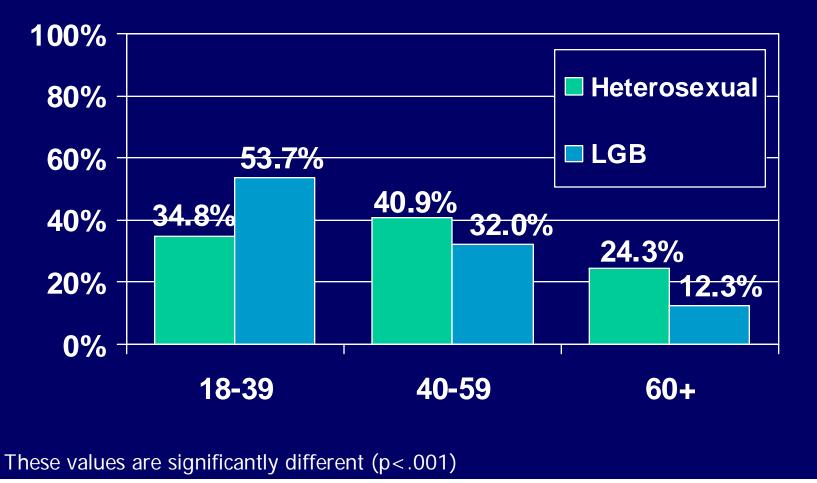
Significant Demographic Differences (p<.01):

- Age Group
- Marital/Partner Status
- Education Level
- Employment Status
- City vs. Suburbs



*

Figure 1. LGB and Heterosexual Adults, by Age Group (n=9714)

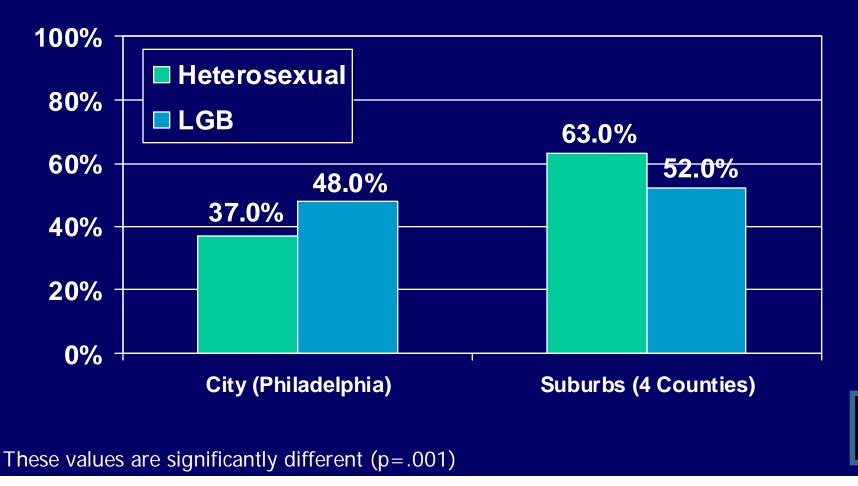






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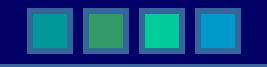
Figure 2. LGB and Heterosexual Adults, by County of Residence (n=9693)





Behavior-Based Measure





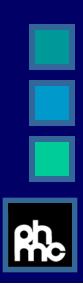
Gender of Sexual Partners: Demographic Differences

No Differences By:

- Gender
- Race/Ethnicity
- Education Level

Significant Demographic Differences:

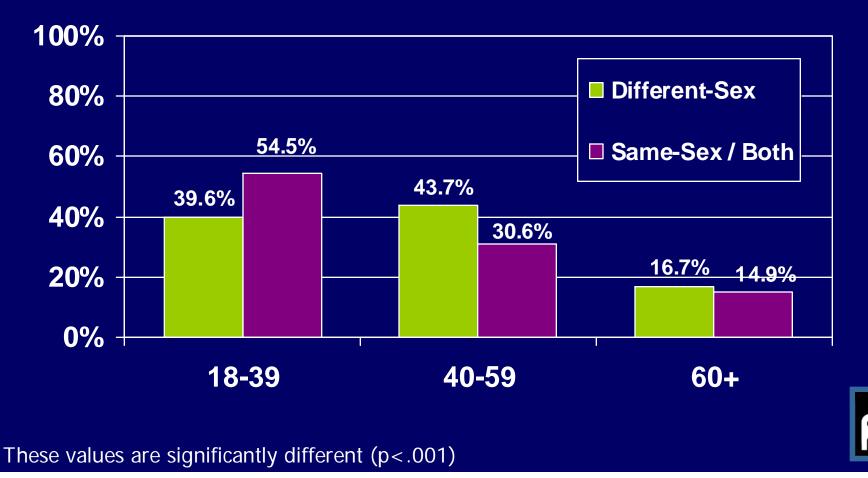
- Age Group
- Income
- Marital/Partner Status
- Employment Status
- City vs. Suburbs





*

Figure 3. Gender of Sexual Partners by Age Group (n=7802)



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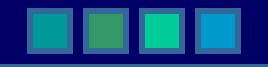
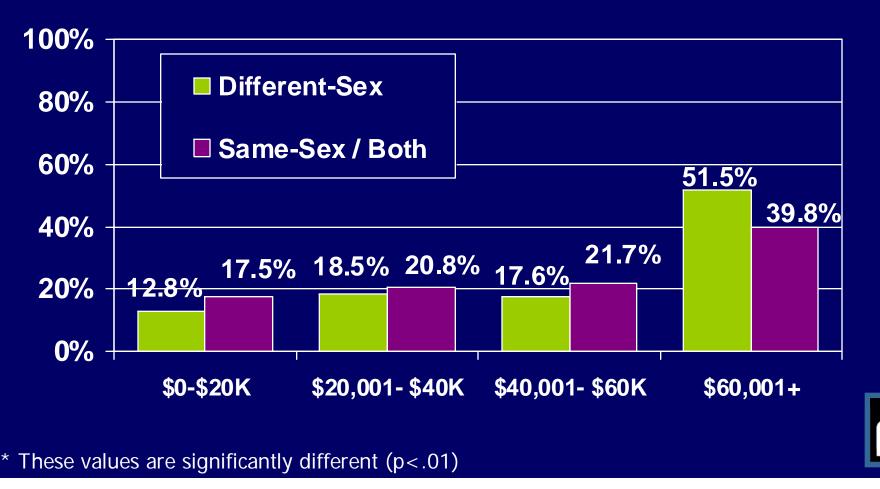


Figure 4. Gender of Sexual Partners by Income Level (n=6902)





Identity vs. Behavior: LGB-Identified vs. Non-LGB-Identified with Same-Sex Behaviors





LGB-Identified vs. Non-Identified: Demographic Differences

No Differences By:

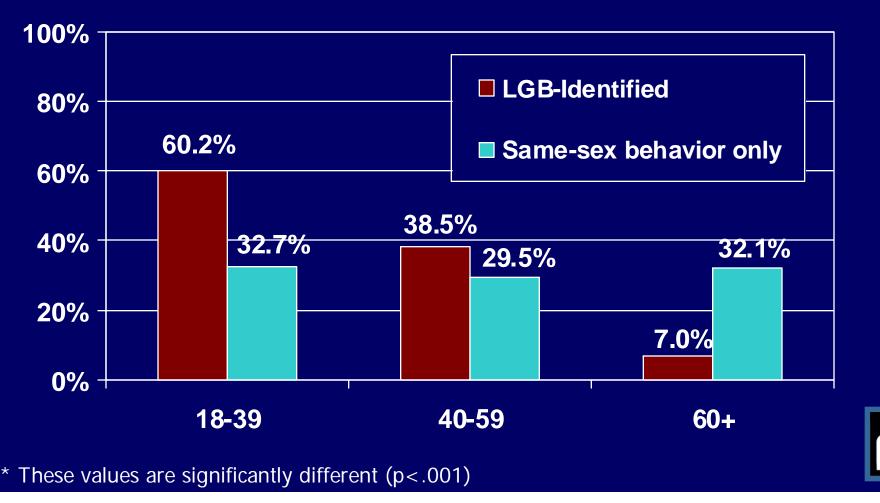
- Gender
- Race/Ethnicity
- Marital/Partner Status
- City vs. Suburbs

Significant Demographic Differences:

- Age Group
- Income
- Education Level
- Employment Status

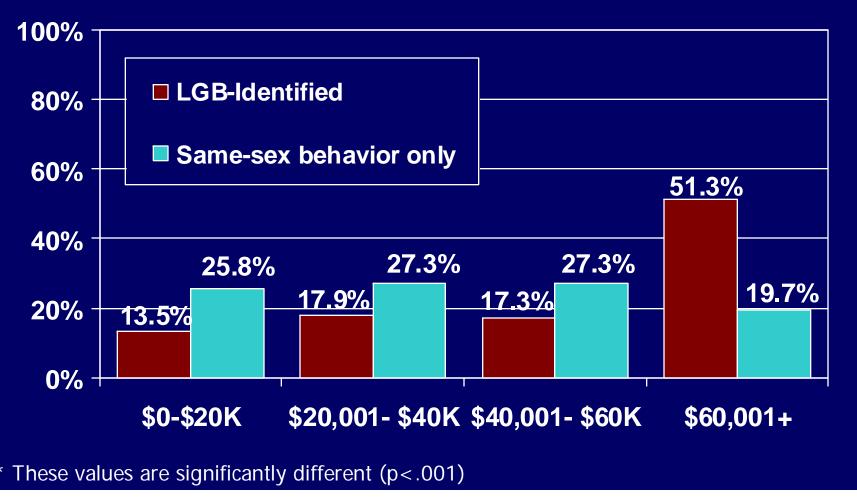


Figure 5. LGB-identified and Nonidentified by Age Group (n=248)



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Figure 6. LGB-identified and Nonidentified by Income Level (n=248)



Multivariate Analysis

Predictors of having same-sex partners but no LGB identity

--NS--

Logistic Regression Odds Ratios (n=248, 95% CI, p<.05)

(Nagelkerke R Square=.31)

- Gender
- Age¹
 - 40-59 --NS--
 - **(**60+**)** 8.61 (3.34, 22.22)
- Education²
 - Some college .16 (.04, .62)
 - College degree + .13 (.04, .46)
- Race³
 - Latino

--NS---

Black/African-American 2.44 (1.14, 5.23)
 1. Compared to those 18-39 years old // 2. Compared to those with < High School/GED // 3. Compared to white respondents



Brief Exploration: Making Gender Explicit



Gender Identity & Sex at Birth Questions

Self-reported sex at birth

- What was your sex at birth...
 - Male,
 - Female, or
 - Other?
- Self-reported current gender
 - What is your present gender?
 - Man,
 - Woman,
 - Transgender, or
 - Other?



Findings: Self-Reported Gender Change

- No change in gender
- Male at birth and presently a woman OR Female and birth and presently a man
- 5 (<0.1%) Transgender or other
- 114 (1.1%) Refused (birth or current)
- Don't know birth sex

9,834 (98.4%)

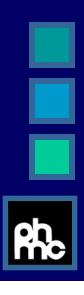
29 (0.3%)

11 (0.1%)

Findings: Self-Reported Gender Change

- Among those who changed gender based on the 2 questions asked:
 - 14 born male, now women
 - 15 born female, now men

Among those who identified as something other than men or women:
1 born male, now transgender
3 born female, now transgender
1 born female, now 'other'



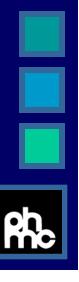
Limitations

- Telephone survey limitations
- Sample size
- Need more data on validity & reliability of sexual identity measures + questions differed from standard questions
- Gender identity questions new and untested; phone survey likely not the best method for reaching hidden, highly-stigmatized populations



Summary & Conclusions

- Some demographic differences found between:
 - LGB and heterosexual populations
 - Same/Both-sex sexual partners vs. differentsex sexual partners
 - LGB-identified and those with same-sex behavior but no LGB identity
- Importance of including both identity and behavior as both are likely determinants of opportunities and health outcomes
- Future directions: attention needs to be directed toward the collection of trans-inclusive gender information.



Acknowledgments

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