Regional Differences in Sexuality Education in Florida: Implications for Programs and Policy

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Sexual Health in Florida

- School-based sexuality education remains a major issue concerning youth across the U.S.
- Levels of sexually transmitted infections (STI) and unintended pregnancies continue to rise in the adolescent population (Santelli et al. 2006a)
- Particularly true in the state of Florida:
 - A recent three-year evaluation revealed approximately 13,400 new cases of chlamydia and 3,400 new cases of gonorrhea were reported among females 15-19 years of age (Florida Department of Health 2007)
 - Florida also currently ranks sixth in the nation in terms of adolescent pregnancies, with over 480,000 births to adolescent mothers annually (Guttmacher Institute 2006)
 - Florida is continuously ranked second or third in the nation in terms of incident HIV infections and overall HIV/AIDS cases (CDC 2005)

Sexual Health in Florida

- Along with socio-cultural differences, the distribution of public health concerns is also disparate across the state
- Ex: The southern counties of Miami-Dade, Broward, and Palm Beach are the top three counties of reported HIV/AIDS cases and other sexually transmitted diseases such as gonorrhea, chlamydia and syphilis in Florida (Florida Department of Health 2007)



Funding for Sex Education in Florida

- Teachers in Florida schools which receive federal Title V, Section 510 funding are required to include "abstinence-only-until-marriage" in any discussion of sexuality in the classroom
- During the fiscal year of 2006, Florida received \$10,700,147 in federal funds for abstinence-only programs and an additional \$2,521,581 in federal and \$3,500,000 in state Title V, Section 510 funding (SIECUS 2007)
- The state of Florida currently maintains an official "stress abstinence" policy in regards to sexuality education and instruction on HIV/AIDS
- No recent legislation for sexuality education at a state level in Florida had been proposed (Florida Statutes 2006)

Regional Differences in Sex Education: Why Are They Important?

- While state mandates exist in Florida, sexuality education curricula and course content are heavily influenced by regional school districts and/or local governments (Landry et al. 2003)
- This has major implications for regional differences in what is taught regarding sexuality
- In a study of school principals (Kaiser Family Foundation 2000), many reported a "great deal" of influence from the local government and regional school district on sexuality education curricula
- When asked why specific topics were not included in sexuality education curricula, principals often referred to a school or district policy that prevents inclusion of that topic (Kaiser Family Foundation 2000)

Demographic Differences in Florida

- According to the United States Census Bureau (2007), population characteristics vary dramatically across three major regions in Florida – North, Central, and South
- The area encompassing North Florida (including the "Panhandle") is predominantly rural and conservative in regards to attitudes toward sexuality
- The region is arguably closer to South Georgia in terms of social and cultural norms than it is to South Florida
- Central Florida, a vast expanse stretching across the interior of the state, is also heavily agrarian but has experienced an explosion of international tourism and development in the area surrounding Orlando

Demographic Differences in Florida

- North and Central Florida have large amounts of retired persons
- South Florida has become heavily urbanized in recent years and also has a significant amount of Blacks and Latinos (particularly those of Cuban ancestry)
- The region is also marked by large aggregates of uninhabitable land, including the Everglades
- Geographic residence, age, and ethnic identity have been related with attitudes towards sexuality in previous research

Primary Aim of Study

- To date, no study has examined regional variation in sexuality education and related factors in Florida
- However, understanding such variation may help to uncover factors promoting disproportionate rates of HIV/AIDS and other STIs, especially those in South Florida
- Research on regional differences in sexuality education across this large and diverse state is needed to determine whether state-level initiatives are, indeed, sensible and feasible
- The aim of this study was to examine regional differences in sexuality education-related attitudes and practice among a statewide sample of Floridian teachers

Procedure

Methods

- Community-Academic Partnerships (Community-Based Participatory Research)
- Scientific review
- Statewide survey (English & Spanish)
- In April 2006, a packet containing an explanation of the study, an informed consent form, paper survey, and postage-paid return envelope was mailed to the sample of teachers
- By July 2006, 462 teachers had responded, yielding a response rate of approximately 26%

Measures

Independent Variable

Regional classifications. North, Central and South Florida

Dependent Variables

- Parental consent. Teachers were asked "Which of the following best describes the situation at your school?" They chose one of the following responses: "parents/caregivers must give active consent/ permission (sign a form); parents/caregivers must give passive consent/permission; or, sexuality education is a requirement for all students"
- Abstinence instruction. The federal guidelines of Section 510 of Title V of the United States Social Security Act were used to measure extent of abstinence instruction

Measures

- English language barriers. Teachers were asked "What percentage of students in your sex education classes do you feel had English-language barriers during the 2005-2006 school year?"
- Spanish curricula offered. Teachers were asked "Were materials
 (curriculum, books, pamphlets, etc.) in your sex education classes during the
 2005-2006 school year available in any language other than English?"
 Teachers indicating that materials were offered in Spanish (1) were
 distinguished from others (0)
- Accurate information. Teachers were asked "Do you believe that young people should be given accurate information about birth control and safer sex in school, regardless of whether or not they are sexually active?"

Measures

• Accurate information encourages sex. Teachers were asked "Do you believe that giving accurate information about birth control and safer sex to young people in school encourages them to have sex?"

Control variables

- *Age*. (M = 47.38, SD = 10.28) Measured in years
- Race/ethnicity. Determined by asking participants whether they were Latino, non-Latino Black, non-Latino White, or non-Latino Other
- Formal Training. Teachers were also asked, "Have you ever received any formal training to teach sexuality education?"

Statistical Analyses

- T-tests
- Bonferroni
- Multivariate logistic regressions

Table 1: Unadjusted Regional Differences in Outcome Variables

	North	Central	South
Parental consent required (%, n = 274)	79.5	66.0	91.2°
Section 510 guidelines taught (out of 8, n = 196)	7.1	6.4 ⁿ	6.3 ⁿ
Students w/ language barriers (%, n = 220)	1.9	7.5 ⁿ	7.3 ⁿ
Spanish curriculum offered (%, n = 221)	15.3	25.0	35.6 ⁿ
Students should get safe sex info (%, n = 411)	89.3	95.8	98.6 ⁿ
Accurate info encourages sex (%, n = 389)	9.6	4.5	4.3

ⁿ statistically different than North Florida, p < .05

^c statistically different than Central Florida, p < .05

Table 2: Multivariate Logistic Regression Model

	Parental	Abstinence	Students w/	Spanish	Students	Info
	consent	guidelines	language	curricula	should get	encourages
	required	taught	barriers	offered	safe sex info	sex
North (ref)	1.00	1.00	1.00	1.00	1.00	1.00
Central	0.59	0.48*	3.92***	2.10	3.26*	0.47
South	3.92**	0.36**	3.72***	3.14*	8.52***	0.31 ^m
White (ref)	1.00	1.00	1.00	1.00	1.00	1.00
Black	1.78	1.00	0.74	2.44 ^m	NAc	0.72
Latino	0.95	1.83	1.14	1.01	NAc	NAº
Other	1.56	4.53*	3.44*	2.60	0.22*	1.92

Table 2: Multivariate Logistic Regression Model

	Parental consent required	Abstinence guidelines taught	Students w/ language barriers	Spanish curricula offered	Students should get safe sex info	Info encourages sex
Age (yrs)	1.01	1.04**	0.98	0.98	1.02	0.99
Formal training	0.51 ^m	1.44	0.79	1.14	0.55	0.68
-2 log likelihood	233.68	370.40	521.74	215.48	130.78	144.19
Chi-square	25.57***	21.25**	34.71***	15.09*	15.20**	5.54

*** p < .001 ** p < .01 * p < .05 ** p < .10

Parental Consent to Teach Sex Education

- In terms of results, <u>South Florida</u> was more likely than North Florida to require passive or active parental consent for student participation in sexuality education
- Yet, the majority of all teachers reported that active parental consent was required for their districts, which suggests that some students may not have received sexuality education
- In light of the value of evidence-based comprehensive sexuality education for adolescents (American Public Health Association 2006), legislation for such sexuality education to be a requirement for <u>all students in Florida</u> would be of great benefit

Abstinence Education

- North Florida teachers taught more Section 510 abstinence guidelines than Central and South Florida, and the odds of teaching these guidelines remained when covariates were controlled
- Teachers in all regions presented most components of governmentendorsed abstinence instruction, which partially satisfies the desires of proponents for abstinence instruction

English Language Barriers

- Although the percentage of teachers having students with language barriers
 was a minority in all regions, teachers in <u>Central and South Florida</u> had
 nearly four times the likelihood of doing so than North Florida teachers
- However, we note that <u>Central Florida</u> teachers were no more likely than those in South Florida to offer Spanish curricula to students
- South Florida teachers, on the other hand, apparently compensated for the disproportionate number of non-English-speaking students by offering an increased number of Spanish curricula
- Central Florida is home to some of Florida's poorest Latino students (United States Census Bureau 2007)

Sex Education Attitudes

- Multivariate analyses also revealed a higher odds for North, in comparison to South, Floridian teachers believing that accurate information encourages youth to have sex
- Encouragingly, however, the majority of all teachers supported youth receiving accurate safer sex information, and relatively few believed that it encourages sexual activity
- Given that teachers generally have some discretion regarding the content of sexuality education (Landry et al. 2003), these positive attitudes toward safer sex information may lead to teachers disseminating it

Limitations

- As with all research, the findings from this assessment must be interpreted considering their limitations
- Our response rate of approximately 26 % is relatively low but typical for mail based surveys on sexuality-related issues (Delbanco et al. 1997; Dodge et al. 2005; Weinberg, Lottes, and Shaver 2000)
- Furthermore, the study design was cross-sectional with the possibility of recall bias when filling out the survey

Recommendations for Policy

- Our study findings suggest that in order for teachers to provide effective sexuality education, state-level policies in Florida (and, perhaps, other states) must account for regional differences in factors related to sexuality education, especially parental consent requirements and language-related needs
- Researchers and policy makers seek to determine whether statistical differences have practical significance for understanding the nature of sexuality education in a given region, state, or country
- When regional differences are immense, policies specific to regions or individual school districts may be ideal
- Of great importance is that educational policies provide evidence-based sexuality education programs to all students (Santelli et al. 2006b)
- Those involved with the development and implementation of sexuality education programs may benefit from a clear understanding of regional variations within Florida and tailoring efforts to fit the needs of individual communities

Acknowledgements

- This study was made possible by a grant from The Picower Foundation to Brian Dodge, PhD, and Michael Reece, PhD, MPH
- We gratefully acknowledge our Scientific Advisory Board, Community Advisory Boards, and the Florida Survey Research Center at the University of Florida – without whom this study would not have been possible
- Note: Manuscript currently in press, Sex Education (available in early 2008)





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