

Supplementary Online Content

Mansh M, Katz KA, Linos E, Chren M-M, Arron S. Association of skin cancer and indoor tanning in sexual minority men and women. *JAMA Dermatol*. Published online October 7, 2015. doi:10.1001/jamadermatol.2015.3126.

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Unweighted Number of Participants by Individual Sexual Orientation, Adult Respondents, Stratified by Sex and Survey Sample (2001-2005 CHIS, 2009 CHIS & 2013 NHIS)

Sexual Orientation	2001-2005 California Health Interview Survey (CHIS) N (%)	2009 California Health Interview Survey (CHIS) N (%)	2013 National Health Interview Survey (NHIS) N (%)
Male Respondents			
Heterosexual/Straight	49,172 (95.9%)	14,820 (96.2%)	14,495 (97.3%)
Gay/Homosexual	1,493 (2.9%)	407 (2.6%)	320 (2.1%)
Bisexual	603 (1.2%)	182 (1.2%)	78 (0.5%)
Female Respondents			
Heterosexual/Straight	69,109 (97.1%)	20,816 (97.2%)	18,051 (97.8%)
Lesbian/Gay/Homosexual	918 (1.3%)	289 (1.4%)	251(1.4%)
Bisexual	1,116 (1.6%)	300 (1.4%)	155 (0.8%)

eTable 2. Multivariate Adjusted Odds Ratio (aOR) for Prevalence of Skin Cancer by Sexual Orientation, Adult Respondents, Stratified by Sex and Survey Sample (2001-2005 CHIS & 2013 NHIS)

Lifetime History of Skin Cancer									
Male Respondents					Female Respondents				
	2001-2005 California Health Interview Survey (CHIS) N=51,268*		2013 National Health Interview Survey (NHIS) N=14,893*			2001-2005 California Health Interview Survey (CHIS) N=71,143*		2013 National Health Interview Survey (NHIS) N=18,051*	
	Adjusted Prevalence aOR (95% CI) †	p-value	Adjusted Prevalence aOR (95% CI) ‡	p-value		Adjusted Prevalence aOR (95% CI) †	p-value	Adjusted Prevalence aOR (95% CI) ‡	p-value
Sexual Orientation									
Heterosexual	1.0 (Reference)		1.0 (Reference)			1.0 (Reference)		1.0 (Reference)	
Sexual Minority	1.56 (1.18-2.06)	0.002	2.13 (1.14-3.96)	0.02		0.84 (0.57-1.23)	0.37	0.53 (0.14-2.03)	0.36
Age									
Continuous, per 1 year age increase	1.07 (1.06-1.07)	<0.001	1.08 (1.07-1.08)	<0.001		1.05 (1.05-1.06)	<0.001	1.05 (1.05-1.06)	<0.001
Race/Ethnicity									
Non-Hispanic White	1.0 (Reference)		1.0 (Reference)			1.0 (Reference)		1.0 (Reference)	
Hispanic	0.13 (0.10-0.19)	<0.001	0.08 (0.04-0.19)	<0.001		0.10 (0.08-0.14)	<0.001	0.17 (0.07-0.39)	<0.001
Non-Hispanic African	0.03 (0.2-0.08)	<0.001	0.05 (0.02-0.14)	<0.001		0.04 (0.02-0.07)	<0.001	0.05 (0.02-0.11)	<0.001
Non-Hispanic Asian	0.06 (0.03-0.13)	<0.001	0.07 (0.02-0.20)	<0.001		0.02 (0.01-0.05)	<0.001	0.18 (0.07-0.50)	0.001
All Others	0.54 (0.39-0.76)	<0.001	0.55 (0.20-1.58)	<0.001		0.48 (0.36-0.64)	<0.001	0.55 (0.18-1.67)	0.29
Body Mass Index §									
Underweight	0.64 (0.22-1.76)	0.38	0.36 (0.09-1.39)	0.14		1.09 (0.75-1.59)	0.64	0.65 (0.36-1.17)	0.15
Normal Weight	1.0 (Reference)		1.0 (Reference)			1.0 (Reference)		1.0 (Reference)	
Overweight	1.02 (0.89-1.16)	0.82	1.07 (0.81-1.41)	0.65		1.00 (0.88-1.13)	0.95	0.86 (0.66-1.12)	0.28
Obese	0.95 (0.80-1.11)	0.47	1.05 (0.73-1.51)	0.79		0.95 (0.81-1.11)	0.52	0.91 (0.69-1.20)	0.48
Annual Household Income									
\$0-\$30,000	1.0 (Reference)		1.0 (Reference)			1.0 (Reference)		1.0 (Reference)	

\$30,001-\$100,000	1.58 (1.32-1.89)	<0.001	1.13 (0.84-1.51)	0.43	1.39 (1.21-1.60)	<0.001	1.42 (1.11-1.81)	0.006
>\$100,000	1.87 (1.53-2.29)	<0.001	1.67 (1.14-2.43)	0.01	1.42 (1.19-1.69)	<0.001	2.22 (1.56-3.17)	<0.001
Healthcare Utilization								
No doctor visit in 12 months	1.0 (Reference)		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)	
≥1 doctor visit in 12 months	1.91 (1.58-2.32)	<0.001	1.92 (1.10-3.38)	0.02	1.83 (1.43-2.35)	<0.001	1.44 (0.78-2.66)	0.24
Smoking History								
Never Smoker	1.0 (Reference)		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)	
Current Smoker	0.75 (0.61-0.92)	0.006	0.86 (0.56-1.32)	0.41	0.86 (0.71-1.04)	0.11	1.09 (0.72-1.64)	0.70
Former Smoker	0.85 (0.75-0.97)	0.014	1.11 (0.86-1.47)	0.50	0.96 (0.86-1.08)	0.51	1.32 (1.00-1.73)	0.05
Current Alcohol Consumption 								
Non-Drinker	1.0 (Reference)		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)	
Light Drinker	1.25 (1.07-1.46)	0.005	1.08 (0.80-1.46)	0.62	1.12 (0.99-1.26)	0.07	1.40 (1.07-1.85)	0.02
Moderate or Heavy Drinker	1.33 (1.10-1.61)	0.003	1.84 (1.27-2.67)	0.001	1.34 (1.05-1.69)	0.02	1.19 (0.75-1.89)	0.47
History of Immunosuppression ¶								
No History	----		1.0 (Reference)		----		1.0 (Reference)	
Medical Illness (HIV, leukemia, lymphoma)	----		2.09 (1.11-3.93)	0.02	----		1.44 (0.71-2.93)	0.31
All Other Reasons	----	----	1.88 (1.10-3.22)	0.02	----	----	1.69 (1.16-2.45)	0.006
U.S. Census Region ¶								
Northeast	----		1.0 (Reference)		----		1.0 (Reference)	
Midwest	----		1.46 (0.88-2.40)	0.14	----		0.91 (0.62-1.32)	0.60
South	----		1.78 (1.11-2.85)	0.02	----		1.05 (0.71-1.56)	0.79
West	----	----	1.36 (0.81-2.29)	0.02	----	----	0.86 (0.57-1.31)	0.50

* Unweighted sample sizes for reference.

† Adjusted for sexual orientation, age, race/ethnicity, body mass index, annual household income, healthcare utilization, smoking history, and current alcohol consumption.

‡ Adjusted for sexual orientation, age, race/ethnicity, body mass index, annual household income, healthcare utilization, smoking history, current alcohol consumption, U.S. Census region, and history of immunosuppression.

§ Body Mass Index defined as underweight <18.5, normal weight 18.5 to 24.99, overweight 25.0 to 29.99, and obese ≥30.

|| Non-drinker was defined as individuals reporting 12 or fewer alcoholic beverages in the last year; light drinker as those reporting more than 12 beverages per year but 7 or fewer on average per week; and moderate to heavy drinkers were those reporting more than 7 beverages on average per week. Data on current alcohol consumption patterns were not available in 2009 CHIS.

¶ Data on U.S. Census Region and history of immunosuppression were collected only in 2013 NHIS.

eTable 3. Multivariate Adjusted Odds Ratio (aOR) for Prevalence of 12-Month History of Indoor Tanning by Sexual Orientation, Adult Respondents, Stratified by Sex and Survey Sample (2009 CHIS & 2013 NHIS)

		History of Indoor Tanning in the Last 12 Months							
		Male Respondents				Female Respondents			
		2009 California Health Interview Survey (CHIS) N=15,409*		2013 National Health Interview Survey (NHIS) N=14,961*		2009 California Health Interview Survey (CHIS) N=21,405*		2013 National Health Interview Survey (NHIS) N=18,515*	
		Adjusted Prevalence aOR (95% CI)†	p-value	Adjusted Prevalence aOR (95% CI)‡	p-value	Adjusted Prevalence aOR (95% CI)†	p-value	Adjusted Prevalence aOR (95% CI)‡	p-value
Sexual Orientation									
Heterosexual		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)	
Sexual Minority		5.80 (2.90-11.60)	<0.001	3.16 (1.77-5.64)	<0.001	0.43 (0.20-0.92)	0.03	0.46 (0.26-0.81)	0.007
Age									
Continuous, per 1 year age increase		0.97 (0.95-0.99)	0.02	0.96 (0.96-0.97)	<0.001	0.94 (0.93-0.95)	<0.001	0.94 (0.94-0.95)	<0.001
Race/Ethnicity									
Non-Hispanic White		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)	
Hispanic		0.56 (0.32-0.96)	0.03	0.34 (0.18-0.64)	0.001	0.24 (0.15-0.39)	<0.001	0.22 (0.16-0.31)	<0.001
Non-Hispanic African		0.21 (0.05-0.89)	0.04	0.12 (0.03-0.40)	0.001	0.01 (0.002-0.04)	<0.001	0.03 (0.01-0.05)	<0.001
Non-Hispanic Asian		0.23 (0.10-0.51)	<0.001	0.19 (0.08-0.50)	0.001	0.20 (0.09-0.43)	<0.001	0.10 (0.06-0.18)	<0.001
All Others		0.46 (0.16-1.33)	0.15	0.59 (0.24-1.47)	0.26	0.18 (0.09-0.37)	<0.001	0.25 (0.15-0.43)	<0.001
Household Income									
\$0-\$30,000		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)		1.0 (Reference)	
\$30,000-\$100,000		0.64 (0.36-1.14)	0.13	1.30 (0.90-1.86)	0.16	0.82 (0.45-1.50)	0.52	1.31 (1.06-1.61)	0.01
>\$100,000		1.01 (0.53-	0.97	1.89 (1.18-	0.07	1.27 (0.66-	0.46	1.20 (0.91-	0.18

	1.92)		3.00)			2.45)		1.58)	
	Adjusted Prevalence aOR (95% CI)†	p-value	Adjusted Prevalence aOR (95% CI)‡	p-value		Adjusted Prevalence aOR (95% CI)†	p-value	Adjusted Prevalence aOR (95% CI)‡	p-value
U.S. Census Region §									
Northeast	----		1.0 (Reference)			----		1.0 (Reference)	
Midwest	----		2.39 (1.40-4.08)	0.001		----		1.63 (1.26-2.10)	<0.001
South	----		0.82 (0.45-1.49)	0.52		----		0.93 (0.72-1.20)	0.59
West	----	----	1.52 (0.82-2.82)	0.18		----	----	0.78 (0.57-1.04)	0.10

* Unweighted sample sizes for reference.

† Adjusted for sexual orientation, age, race, income.

‡ Adjusted for sexual orientation, age, race, income, and U.S. Census region.

§ Data on U.S. Census Region and history of immunosuppression were collected only in 2013 NHIS.