Tobacco Use of BSN Nursing Students in Arkansas: Global Health Professional Students Survey

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UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES



Sigma Theta Tau International Honor Society of Nursing Gamma Xi Chapter

Faculty Disclosure

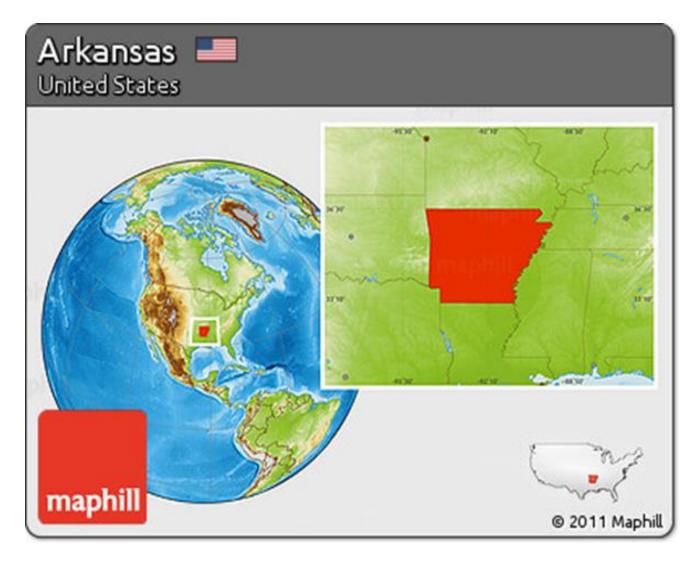
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Conflicts of Interest	None
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Session Goal

Examine findings of the Global Health Professions Student Survey of 3rd year BSN nursing students in Arkansas.

Session Objectives

- Explore the feasibility of the Global Health Professional Students Survey in Arkansas.
- Gain a comprehensive view of nursing students' tobacco use.
- Determine evidence-based action plan to address tobacco use during nursing school.



- Rural
- Medically Underserved
 Undereducated
- Impoverished

Prevalence of Smoking

<u>Global</u>	<u>U.S.</u>	<u>Arkansas</u>
21%	18.1%	27%

WHO, 2016; U.S. Surgeon General's Report, 2014

Smoking among Nurses and Nursing Students

	<u>Global</u>	<u>U.S.</u>	<u>Arkansas</u>
Nurses	15.9%	13%	Unknown
Nursing Students	≤5% - 46.6%	Unknown	Unknown

WHO, 2013; Sarna et al, 2014, Warren 2009

Global Health Professions Student Survey (GHPSS)

- Prevalence
- Secondhand Smoke
- Attitudes

- Behaviors/Cessation
- Curriculum/Training
- Demographics

Methods

GHPSS Methodology

- Sampling
- Core questionnaire (42)
- Timeline
 - In class data collection
 - Total data collection from all schools

Inclusion/Exclusion Criteria

Inclusion:

All third-year BSN nursing students from public or private schools scheduled to graduate by Dec. 2014

• Exclusion:

- Nursing Licensure
- Cannot read or speak English

Design

- Descriptive
- Cross section
- Pilot

Procedures

- Informed consent script emphasizing confidentiality and anonymity
- Computer Scannable Answer sheets
- Face-to-face administration of 62 item survey based upon core survey
- 30-40 minutes during class
- Fieldwork conducted in 6–8 weeks

Results

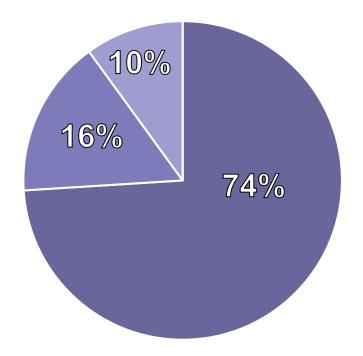
Sample

School Response Rate 8/11	Class Response Rate	Student Response Rate: 516/517
72.7%	100%	99.8%

Demographics (N = 516)

	<u>All</u>	<u>Tobacco Users</u>
Age		
19-29	85%	83%
> 29	15%	17%
Gender		
Male	17%	23%
Female	83%	77%
Race		
White	80%	81%
Other	20%	19%
Household income		
< \$10,000	22%	24%
\$10,000-\$49,999	47%	43%
<u>></u> \$50,000	31%	31%

Prevalence of Tobacco Use in Sample 25.8% (133 / 516)



Non-users

- Cigaretes and Dual Users
- Other Tobacco Products only

Exposure to Second Hand Smoke

In residence 22%

Elsewhere 54%

Attitudes: Nurses' Role

	Non-users	<u>Tobacco Users</u>
Nurses are role models	97%	94%
Receive cessation training	92%	89%
Deliver cessation advice	91%	98%
Advise patients to quit	91%	91%

Attitudes: Policies

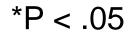
	Non-users	<u>Tobacco Users</u>
Ban sales to adolescents	91%	93%
Ban tobacco advertising*	76%	63%
Ban Smoking:		
Restaurants*	98%	93%
Public enclosed spaces*	89% 73%	71% 40%
Bars*	13%	40%

*P < .05

Attitudes: Impact

Quit rates improve if a nurse advises quitting.*

Non-users	<u>Tobacco Users</u>
70%	57%



Behaviors: Advise to Quit

Are health professionals less likely to advise patients to stop smoking if they smoke?*

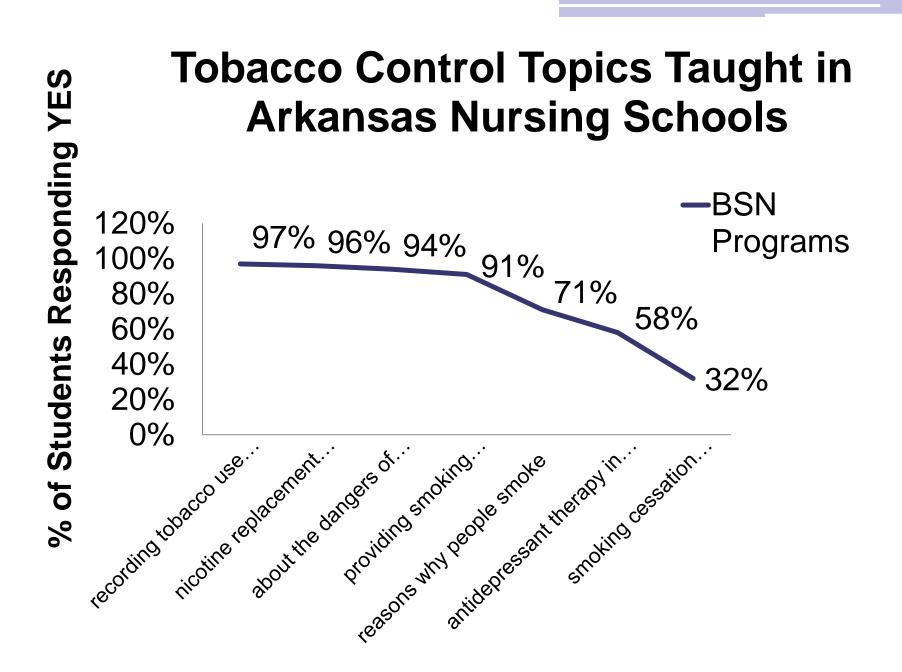
Non-users 83% Tobacco Users 73%

*P < .05

Behaviors: Cessation

Wanted to quit now 81%

Ever received help or advice 24%



Limitations

- Lack of biochemical validation
- Non-participating schools in the northeast quadrant of state
- Survey is limited to 3rd year students

Conclusions

- The GHPSS was feasible.
- Results aligned with GHPSS findings worldwide
 - Exposure to SHS
 - Positive attitudes about nurses role
 - Users less likely to "Advise to Quit"
 - Impact of nurses to help others quit was low
 - Strong desires to quit without being offered help
 - Limited tobacco curriculum

MPOWER

Monitor use and prevention policies

Protect from secondhand smoke

Offer to help quit

Warn about the dangers of tobacco use

Enforce bans

Raise taxes

WHO, 2016

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Significance of Tobacco Use by Nursing

Specialty													
	n=	otal 504* 7.7%))4* n = 375			Tobacco Users n = 128 (24.9%)							
					(garettes Only 1=61 2.1%)	F	Other Fobacco Products Only n=47 (9.3%)	U	Dual sers*** n=20 4.0%)	,	Totals	
Specialty	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	p
Emergency	73	(15)	48	(65.8)	14	(19.2)	6	(8.2)	4	(5.5)	24	(34.2)	.022
Intensive Care Medical/Surgical/	53	(11)	33	(62.3)	9	(17.0)	8	(15.1)	3	(5.7)	20	(37.7)	.268
Geriatrics	22	(4)	14	(63.6)	3	(13.6)	4	(18.2)	1	(4.5)	8	(36.4)	.289
Obstetrics Neonatology/	60	(12)	47	(78.3)	6	(10.0)	5	(8.3)	2	(3.3)	13	(21.7)	.903
Pediatrics	123	(25)	106	(85.5)	8	(6.5)	8	(6.5)	2	(1.6)	18	(14.5)	.589
Mental Health	23	(5)	18	(78.3)	3	(13.0)	1	(4.3)	1	(4.3)	5	(21.7)	.333
Community	11	(2)	7	(63.6)	1	(9.1)	1	(9.1)	2	(18.2)	4	(36.4)	.012
Perioperative	43	(9)	31	(72.1)	5	(11.6)	6	(14.0)	1	(2.3)	12	(27.9)	.145
Oncology	16	(3)	12	(75.0)	1	(6.3)	1	(6.3)	2	(12.5)	4	(25.0)	.001
Undecided	78	(16)	59	(74.7)	11	(13.9)	7	(8.9)	2	(2.5)	20	(25.3)	.014

* 12 cases of missing data from total sample (n=516). Significance (Chi²) was set at p<0.05. and is reported in red.

Tobacco Products Used and Desired Nursing Specialty

	Total n=504*(97.7%)										
					Toba	Tobacc n = 128 acco Prod	(24.9%)	orted Being	Used		
Specialty	n(%)	Cigarettes n (%)	Chew n (%)	Snuff n (%)	Snus n (%)	Bidis n (%)	Cigars n (%)	Kreteks n (%)	Pipes n (%)	Waterpipe/ Hookah n (%)	Totals
Emergency	73(15)	19	1	2	0	0	7	0	1	0	30
Intensive Care	53(11)	12	1	2	0	0	3	0	1	7	26
Medical/Surgical/ Geriatrics	22(4)	4	0	1	0	0	3	0	0	1	9
Obstetrics	60(12)	8	0	0	0	0	4	0	0	5	17
Neonatology/ Pediatrics	123(25)	10	1	0	0	0	2	0	1	7	21
Mental Health	23(5)	4	2	0	0	0	0	0	0	0	6
Community	11(2)	3	1	0	0	0	2	0	1	1	8
Perioperative	43(9)	6	1	1	0	0	3	0	1	1	13
Oncology	16(3)	3	0	0	0	0	2	0	0	1	6
Undecided	78(16)	13	2	0	2	0	4	1	0	2	24
Total	504(100)	82	9	6	2	0	30	1*	5	25	160
р		.105	.188	.286	.289	*	.119	.8	.296	.06	

	Nonu	sers (n=383)		Tobacco Users $(n=132)$						
				Cigarettes Only	Othe	er Tobacco lucts Only	U	Dual Jsers***		
	n	(%)	n	(%)	n	(%)	n	(%)	Totals	
Female	329	(76.51)	57	(13.26)	29	(6.74)	15	(3.49)	430	
Male	54	(63.53)	6	(7.06)	20	(23.53)	5	(5.88)	85	
Totals	383	(74.37)	63	(12.23)	49	(9.51)	20	(3.88)	515	

50th Anniversary of the United States Surgeon General's Report on the Dangers of Smoking

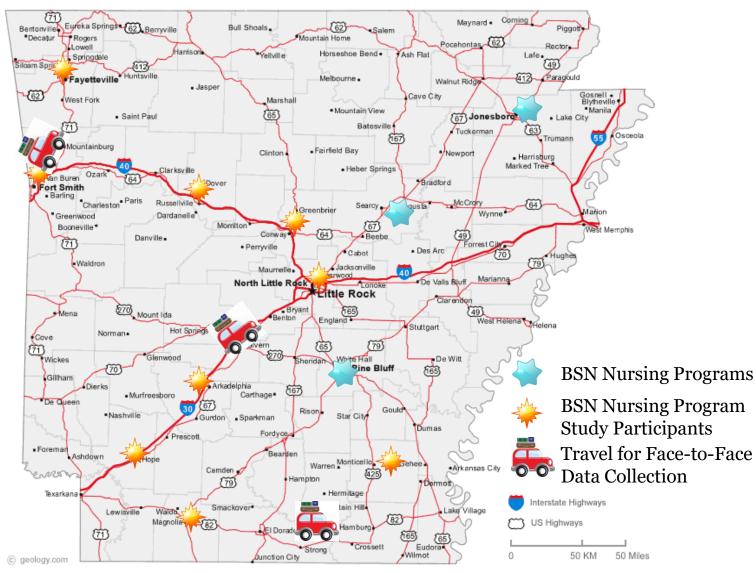
- Focus of most reports has been cigarette smoking
- Considerable scientific evidence linking the health risks with tobacco use
- Surgeon General is now urging the monitoring of all combustible tobacco products

U.S. Department of Health and Human Services (2014). *The Health Consequences of Smoking- 50 Years of Progress: A Report of the Surgeon General*. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health.

Categories of Tobacco Use by Gender

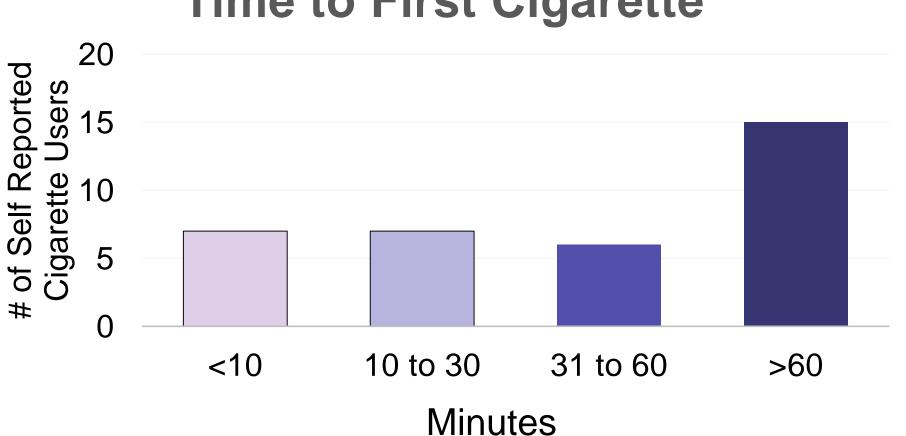
	Cigarettes only n(%)	Other Tobacco Products only n(%)	Dual Users n(%)
Female	57 (90%)	29 (59%)	15 (75%)
Male	6 (10%)	20 (41%)	5 (25%)

BSN Nursing Programs in Arkansas



Data Analysis

- STATA, SPSS (v 21.0),NCSS (v 8.0.13)
- Chi Square was used to test relationships.
 Significance was set at the .05 level.
 - Assumptions of Chi square were met



Time to First Cigarette

Tobacco Products Used by Arkansas Nursing Students Compared to Youth, College Students, General Population

<u>Survey</u>	<u>Cigarettes</u>	<u>Cigars</u>	Water <u>Pipe/Hookah</u>	Smokeless <u>Tobacco</u>
GHPSS 3 rd Year BSN Nursing Students in Arkansas	16.1%	5.8%	5.0%	3.4%
NYTS 10 th -12 th Grade	14%	12.6%	5.4%	6.4%
ACHA NCHA II College Students	14.3%	6.0%	7.6%	3.7%
NATS General Population	19.6%	6.6%	1.5%	4.4%

National Youth Tobacco Survey 2012(NYTS); The American College Health Association, National College Health Assessment II (ACHA NCHAII [Spring,2012]); King Dube, & Tynan (2012); *The National Adult Tobacco Survey 2009-2010(NATS)

Behaviors: Advise to Quit

Are health professionals less likely to advise patients to stop smoking if they use other tobacco products?

> <u>Non-users</u> 81%

<u>Tobacco Users</u> 68%

*P < .05