Vietnamese Nail Salon Workers and Occupational Health and Safety Practices

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Objectives:

- 1. Describe Vietnamese nail salon workers predictors to adherence of recommended occupational health and safety practices.
- 2. Discuss policy recommendations for nail salon workers.
- 3. Describe community based participatory research (CBPR) approaches in collaboration with Vietnamese nail salon workers





Health Disparities Risk Factors

- Demographics of Vietnamese Americans
 - Recent immigrants and growing population
 - 1.7 million in US, growth rates up to 70%
 44,000 Maryland & Northern Virginia

 - 10,000 Montgomery County, Maryland
 - Limited English-speaking skills
 - Limited job skills, education
 - · 16% live in poverty
 - 38% have < high school diploma; 8% none
 - 10.6% high unemployment rate

Nail Salon Industry Benefits and Challenges

Opportunity

- 40-50% of nail salons owned by Vietnamese
- 375,000 nail salon workers / 50% are Vietnamese
- Offers employment, social networking, community support

Challenges

- Long work hours
- Self-employed, booth renters, contractual, commission
- Mean annual income \$17,000
- Lack of health insurance, poor health care access

Nail Salon Work - Risky Business

- Occupational hazards:
 - Chemical exposures
 - Ergonomic stressors
 - Work practices
 - Language and community barriers
 - Health disparities



Advocacy for Nail Salon Workers Health and Safety Information

- EPA's guide
 - "Protecting the Health of Nail Salon Workers"

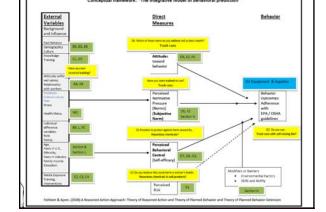


- Oregon Healthy Nail Salon Collaborative
 - "Best Practices Checklist for Nail Salons"
- Professional Beauty Association
 - "Ergonomic Basics for Nail Salon Professionals"



Specific Aim

Identify predictors of adherence to recommended health and safety practices for nail salon work, using a CBPR approach.



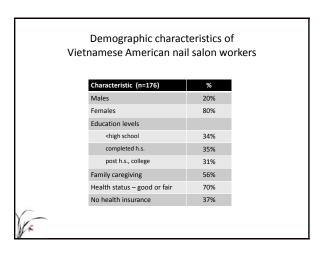


Methods

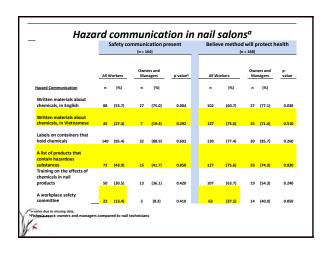
- Community based participatory research (CBPR)
- Integrative Model of Behavioral Prediction
- Cross sectional survey
- Survey completion options:
 - Phone interview
 - Interview assisted
 - Self-administered
- Recruitment strategies:
 - Mailed to licensed Vietnamese cosmetologists in Maryland
 - Referrals from community networks
 - Community events
 - Distribution to nail salons





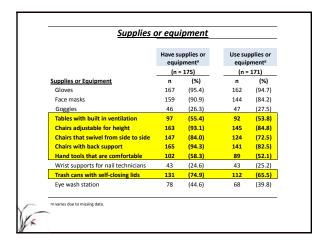


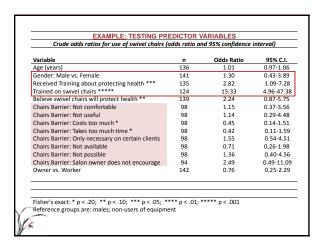


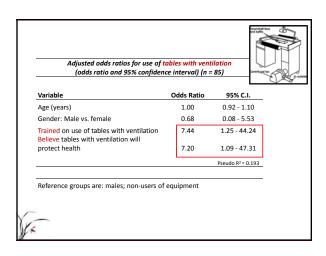


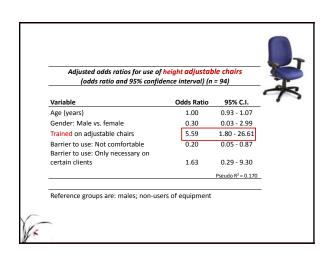
Health and safety policies											
Policy or Practice Washing hands after handling chemicals	Those who have policy in salon					Those who adhere to policy					
		rkers	Owners / managers (n = 35)		p- value			rkers	Owners / managers (n = 34)		p- value*
	n	%	n	%			n	(%)	n	(%)	
Washing hands after each client	156	92.9	34	97.1	0.46		161	93.6	32	94.1	1.000
No smoking in work areas	157	93.5	34	97.1	0.46		167	97.1	34	100.0	0.59
No eating or drinking in work	145	86.3	34	97.1	0.05		153	89.0	33	97.1	0.13
Reeping records of injuries or nealth problems	143	85.1	30	85.7	1.000		142	82.6	30	88.2	0.45
	46	27.4	10	28.6	0.84		47	27.3	11	32.4	0.52



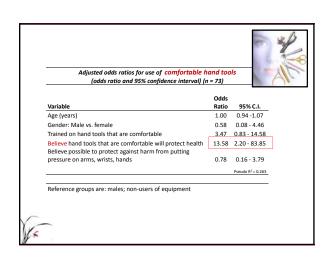








Adjusted odds ratios for use of trashcans with self-closing lids (odds ratio and 95% confidence interval) (n=107) Variable Ratio 95% C.I. Age (years) 1.08 0.99 -1.18 Gender: Male vs. female 0.03 - 3.24 0.33 Trained on trash cans with self-closing lids 0.94 - 21.54 Believe trashcans with self-closing lids will protect health 1.42 - 26.83 Pseudo R² = 0.290 Reference groups are: males; non-users of equipment



Predictors for Using Protective Equipment Chemical exposures Ergonomic practices Tables with ventilation Comfortable hand tools · Training on tables · Belief it is protective • Belief it is protective - Chairs height adjustable Trashcans • Training on height chairs • Training about trashcans Chairs swivel · Training on swivel chairs - Chairs with back support • Received general training

CBPR strategies needed to guide next steps

- Success of this study due to multiple CBPR principles
 - > Long standing involvement with community
 - > Attendance at numerous community events, several years
 - > Recruitment materials & surveys in Vietnamese
 - > Support from community networks and leaders
 - > Affiliation with community advocacy agencies
 - ➤ Vietnamese research assistants
 - ➤ Values of participants "Happy to help my community."
 - > Training continues led by Vietnamese community agencies

