Psychological Distress among California Vietnamese Immigrants: Correlates and Implications for Outreach

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Background

- ❖ Vietnamese constitute 11% of all Asians Americans and are the 4th largest Asian group in the US (US Census, 2010).
- ❖ 64% of the Vietnamese Americans were born outside the US and 51% came to the U.S. after 1990; most (88%) speak Vietnamese at home.
- ❖ Recent surveys of convenience samples of Vietnamese Americans suggest depression prevalence ranging from 12% to 30% (Tran 2007; Dinh 2009; Leung 2010).
- ❖ Compared to US-born Asians and the general US population, Asian immigrants report lower utilization of mental health services despite similar prevalence of psychological distress (Grant 2010).

Objectives

This study aims to:

- ❖ Document the prevalence of psychological distress among Vietnamese Immigrants in California
- Examine factors associated with psychological distress among Vietnamese immigrants
- Identify new implications for outreach strategies that aim to promote knowledge and appropriate utilization of mental health services

Methods

- ❖ Procedures: Data were obtained by telephone from 2,136 Vietnamese Americans who were 18 or older and were born outside the US and responded to a 2008 population-based, random telephone survey, the California Vietnamese Adult Tobacco Use Survey (CVATUS).
- ❖ Outcome Variable: Psychological distress levels were assessed by the number of symptoms experienced frequently in the past week: 1) feeling slowed down; 2) sleep difficulties; 3) excessive worrying; and 4) sadness

3 Psychological Distress Levels	Minimal	Elevated	Significant
# symptoms (out of 4) frequently experienced	0-1	2	3-4

- ❖ Independent Variables: Socio-demographics, alcohol and tobacco use, health status, & health care access
- ❖ Data Analyses: Weighted multinomial logistic regression analyses were conducted for females and males separately to examine factors associated with psychological distress levels for each gender
- **❖** Participants (Table 1)

Table 1. Sample Characteristics by Gender	Females (n=1,060)	Males (n=1,076)
Age, Mean (SE)	42.0(0.70)	42.2(0.70)
Education: ≥ Some college	47.7%	63.3%
Marital status		
Married, living with partner Divorced/ separated	68.7% 8.2%	66.1% 3.6%
Never married	23.1%	30.3%
Employed	48.9%	63.2%
Below poverty level	19.8%	16.2%
Years in US: > 16	37.3%	48.6%
Limited spoken English proficiency	69.2%	62.8%
Religion		
Buddhist Christian	56.9% 32.85	48.1% 30.3%
Other/ None	10.3%	21.6%
Perceived general health as poor or fair	42.7%	35.1%
Had health insurance	82.3%	83.4%
Had medical check-up past year	81.7%	71.2%
Alcohol use: None in the past month	88.4%	53.9%
Current smoker	0.7%	26.5%
Had military/police service or re-education camp stay in Vietnam	2.9%	18.7%
Had stayed In refugee camp	30.7%	42.4%

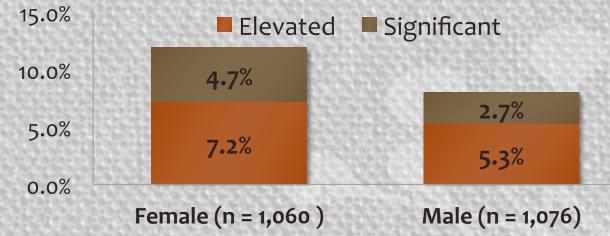
Note: Significant gender difference (\underline{p} < 0.05) was observed in most demographic characteristics except for age and health insurance status.

Results

❖Psychological distress prevalence

◆ 1 in 10 (95% CI: 8.5 – 11.5%) Vietnamese immigrants in California reported experiencing elevated or significant levels of psychological distress in the past week More women (11.9%; 95% CI: 9.7 – 14.2%) than men (8.0%; 95% CI: 6.0 – 10.1%) reported psychological distress, p =0.03 (Figure 1)

Figure 1. Psychological distress levels by gender



Weighted multinomial logistic regression models for psychological distress levels among Vietnamese Females and Males

Table 2.	Elevated Distress	Significant Distress
Significant Correlates among Females	Odds ratio (95% CI)	Odds ratio (95% CI)
fMarital Status (Referent: Married)		
Single Widowed/ Divorced/ Separated	3.01 (1.22 - 7.42) 2.27 (1.14 - 4.51)	1.49 (0.54 – 4.12) 3.19 (1.44 – 7.06)
Employed (Referent: Yes) No (Not Employed)	0.76 (0.43 – 1.35)	3.03 (1.39 – 6.60)
fReligion (Referent: None/Others) Buddhist Christian	4.54 (1.61 – 12.79) 3.45 (1.16 – 1.09)	2.86 (0.80 – 1.26) 3.43 (0.96 – 12.32)
English Proficiency (Referent: Limited) Well/ Excellent	0.75 (0.32 – 1.75)	3.46 (1.04 – 11.49)
General Health (Ref: Good to Excellent) Fair/ Poor	3.07 (1.40 – 6.71)	4.85 (1.92 – 12.29)
fSmoking Status (Ref: Never/ Former) Current smoker	5.56 (1.22 – 25.38)	4.96 (0.65 – 37.57)

Table 3.	Elevated Distress	Significant Distress
Significant Correlates among Males	Odds ratio (95% CI)	Odds ratio (95% CI)
mEducation (Referent: College +) < College	1.57 (0.63 – 3.90)	10.33 (1.74 – 61.22)
Employed (Referent: Yes) No (Not Employed)	2.34 (1.09 – 5.00)	1.59 (0.38 – 6.72)
English Proficiency (Referent: Limited) Well/ Excellent	1.39 (0.43 – 4.42)	2.76 (1.03 – 7.41)
mHealth Insurance (Referent: Yes) No/ Unknown	2.78 (1.04 – 7.40)	0.58 (0.16 – 2.13)
General Health (Ref: Good to Excellent) Fair/ Poor	2.33 (1.18 – 4.58)	8.95 (2.36 – 33.99)
mMilitary/ Police Service and/or Reeducation Camp Stay (Referent: No)	0.07/0.00 0.00	4 22 (2 25 4 25)
Either Both	0.95 (0.38 – 2.36) 0.81 (0.36 – 1.82)	1.32 (0.36 – 4.85) 3.24 (1.02 – 10.36)

Note: For both models, the reference category was Minimal Distress. All covariates listed in Table 1 were included in the models but only the significant ones were shown. f and m denote gender-specific correlates found significant among females and males, respectively.

◆ Shared and gender-specific factors associated with elevated or significant psychological distress (Tables 2 & 3)

Shared (by Female and Male)

- unemployment;
- poor perceived health;
- being fluent in English

Female-specific

- being unmarried or single;
- being Buddhist or Christian;
- current smoking

Male-specific

- lower education;
- lacking insurance;
- having been in both military & re-education camp in Vietnam

Conclusions

- ❖ This is the first large population-based study documenting more Vietnamese immigrant women (12%) and men (8%) reported experiencing psychological distress in the past week.
- There are shared and gender-specific factors associated with psychological distress. Research is needed to understand the nature of these associations.
- ❖ Correlates identified also imply outreach strategies to promote knowledge and utilization of mental health services among Vietnamese immigrants. Examples:
 - ◆ faith-based settings may be an effective outreach channel for women;
 - ◆ increasing community awareness of the association between previous military/ reeducation camp experience and psychological distress may facilitate outreach to men through their family or social network;
 - ◆ addressing general health concerns may promote outreach for both men and women.

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