Exploring Resilience among Asian Immigrants toward Improving Global Healthcare

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Introduction

- Resilience defined: character, behavior, and abilities demonstrative of successful coping in the presence of stress
- Population foci: Filipino Americans, women, seniors; Asian Immigrants (Als) in pain
- Current scientific literature does not provide evidence on comprehensive exploration of resilience among Als.



Purpose

- This symposium offers various perspectives on resilience among Als influenced by their culture when faced with adversity.
- Particularly, the cohesive presentations emphasize Als who are often underserved.



Overview of Presentations

- Andrew Thomas Reyes, PhD: Cultural Factors
 Affecting Resilience of Filipino Immigrant
 Women
- Reimund Serafica, PhD: Acculturative Stress and Resilience among Older Filipino Americans
- Jennifer Kawi, PhD and Andrew Thomas Reyes,
 PhD: Resilience: Understanding how Asian
 Immigrants Manage in the Face of Chronic Pain



Summary

- Increasing AI population but data are lacking among AIs in the scientific literature
 - Impact global healthcare and healthcare equity
 - Significance of culture in health
- Resilience is high among Als and particularly among Filipino Americans
- Resilience has a protective function
- Investigate resilience interventions



Cultural Factors Affecting Resilience of Filipino Immigrant Women

Presented by:

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Acknowledgement

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*No conflict of interest



Learning Objectives

- To discuss the relationships between resilience, acculturative stress, and cultural family beliefs about disclosing mental health problems among Filipino immigrant women.
- To examine implications from the findings of the study and explore specific recommendations for nursing practice and research



Background

- Asian Americans: fastest growing racial group in the U.S. (U.S. Census Bureau, 2017)
- 19% of Asian Americans are Filipinos (Hoeffel et al., 2012)
- Third largest Asian group in the U.S. after
 Chinese and Asian Indians (Hoeffel et al., 2012; Lopez, Ruiz, & Patten, 2017)
- There are 67 males for every 100 females (U.S. Census Bureau, 2011).



Background (cont)

- Filipino American women: mental health challenges
 - Highest prevalence of moderate to severe postpartum depression (Huang, Wong, Ronzio & Yu, 2007)
 - Highest rate of substance abuse among other
 Asian American women (Appel, Huang, Ai, & Lin, 2011)
 - More women reported being more depressed than men, and women reported more symptoms of depression than men (Espiritu & Wolf, 2001; David, 2008; Ying & Han, 2006)



Background (cont)

- Acculturation and mental health
 - Acculturation to US Western culture is significantly related to depression and other negative mental health outcomes among Asian immigrants (Hwang & Ting, 2008; Singh, Schulz, Neighbors, and & Griffith, 2017).



Purpose of the Study

- The present study aimed to examine the cultural factors affecting resilience among Filipino female immigrants living in the United States.
- Cultural factors
 - Acculturative stress
 - Family beliefs about disclosing mental health problems outside their families.



Specific Aims of the Study

• To examine:

- Levels of resilience and acculturative stress
- Relationship between resilience, acculturative stress, and family norms against disclosure of mental health problems
- Potential mediating effect of resilience on acculturative stress and family norms against disclosure of mental health problems



Theoretical Framework

- Ecological Framework of Resilience (Ungar, 2008)
- Resilience are based not only on an individual's responses, but also—and more importantly—are conditioned by many factors including environment, society, and culture



Key Concepts of the Study

- Acculturative stress: behavioral responses to acculturation that indicate poor mental health, psychosomatic symptoms, and identity confusion (Berry, Kim, Minde, & Mok, 1987)
- Family norms against disclosure of mental health problems (Sanchez & Gaw, 2007; Augsberger, Yeung, Dougher, & Hahm; Han & Pong, 2015)
- Resilience: Set of individual qualitative that allow one to thrive despite significant challenges (Connor & Davidson, 2003)



Gaps in the Literature

- Significant negative relationship between acculturative stress and resilience (Achuleta, 2015; Cheung & Yue, 2012; Miletric, 2014; Yoo et al., 2013; Miller & Chandler, 2002; Yu, Stewart, Liu & Lam, 2014)
- Resilience and acculturative stress unclear among Asian Americans
- Inconsistent findings on relationship between acculturative stress and disclosure of mental health concerns (Greenidge, 2007; Fung & Wong, 2007; Thikeo, Florin, & Ng, 2015;

Whealin et al., 2013, 2015)



Methods

- Paper-and-pencil questionnaire survey
- Eligibility criteria:
 - 18 years of age or older
 - Female
 - Filipino in ethnic origin



Measures

- Resilience
 - Connor-Davidson Resilience Scale (CD-RISC, Campbell-Sills & Stein, 2007)
- Acculturative Stress
 - Social, Atttitudinal, Familial, and Environmental Acculturative Stress Scale (SAFE, Mena, Padilla, & Maldonado, 1987)
- Family Norms Against Disclosure of Mental Health Problems
 - Single-item questionnaire (FNAD, Whealin et al., 2013; 2015).

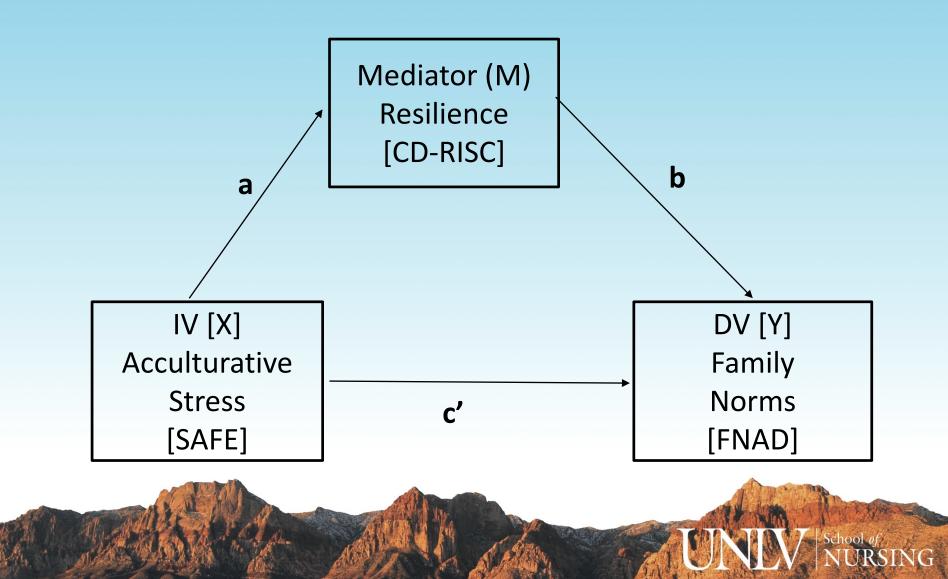


Procedures and Data Analyses

- Inferential statistical models were used
- Mediation models



Model Tested



Results

- Participants (*n*=159):
 - Ages 35-64 years (60.4%)
 - Employed (77.5%)
 - First-generation (91.2%)
 - Income: less than \$75,000 (72.1%)
 - Bachelor's degree (69.2%)

Results (cont)

- CD-RISC overall mean score: 30.4 (SD = 7.28)
- SAFE overall mean score: 29.6 (SD=18.33)



Results (cont)

- CD-RISC was significantly correlated negatively with SAFE (r_s = -.285, p < .001)
- CD-RISC was significantly correlated negatively with FNAD $(r_s = -.160, p = .052)$
- SAFE was not correlated with FNAD (r_s = 0.03, p = .765)



Results (cont)

- SAFE instrument were significant predictor of CD-RISC (β = -.08, p = .018)
- CD-RISC were not significant predictors of FNAD (β = -.03, p = .061)
- SAFE instrument were not significant predictors of FNAD (β = -.001, p = .857)
- No indirect relationship of SAFE to FNAD accounting for the mediator of CD-RISC (95% CI: [-.0001, .0055])



Discussion

- Variability of resilience among Asian women (Reyes & Constantino, 2016)
- Educational attainment on acculturative stress (Abdulahad, Graham, Montelpare, & Brownlee, 2014; Berry, 1997; Dow, & Woolley, 2011)
- Prevalence of mental health problems among Asian Americans related to family norms (Abe-Kim et

al., 2007; Guo et al., 2015)



Limitations

- Abbreviated version of CD-RISC
- Geographical limitation of the sample
- Self-report surveys



Conclusions

- Aggregating different Asian ethnicities (Museus & Truong, 2009)
- The need to develop resilience interventions and resources



References

Abdulahad, R., Graham, J. R., Montelpare, W. J., & Brownlee, K. (2014). Social capital: understanding acculturative stress in the Canadian Iraqi–Christian community. British Journal of Social Work, 44, 694–713. doi:10.1093/bjsw/bcs160

Abe-Kim, J., Takeuchi, D. T., Hong, S., Zane, N., Sue, S., Spencer, M. S., . . . Alegría, M. (2007). Use of mental health-related services among immigrant and U.S.-born Asian Americans: Results from the National Latino and Asian American Study. American Journal of Public Health, 97, 91–98. doi:10.2105/AJPH.2006.098541

Appel, H. B., Huang, B., Ai, A. L., & Lin, C. J. (2011). Physical, behavioral, and mental health issues in Asian American Women: Results from the National Latino Asian American Study. Journal of Women's Health, 20, 1703–1711. doi:10.1089/jwh.2010.2726

Archuleta, A. J. (2015). Newcomers: The contribution of social and psychological well-being on emotion regulation among first-generation acculturating Latino youth in the Southern United States. Child and Adolescent Social Work Journal, 32, 281–290. doi: 10.1007/s10560-014-0370-4

Augsberger, A., Yeung, A., Dougher, M., & Hahm, H.C. (2015). Factors influencing the underutilization of mental health services among Asian American women with a history of depression and suicide. BMC Health Services Research, 15. doi:10.1186/s12913-015-1191-7

Berry, J. W. (1997). Immigration, acculturation and adaptation. Applied Psychology, 46, 5–34. doi:10.1111/j/1464-0597.1997.tb01087.x

Berry, J. W., Kim, U., Minde, T., & Mok, D. (1987). Comparative studies of acculturative stress. International Migration Review, 21, 491–511.

Campbell-Sills, L., & Stein, M. B. (2007). Psychometric analysis and refinement of the Connor-Davidson Resilience Scale (CD-RISC): Validation of a 10-Item measure of resilience. Journal of Traumatic Stress, 20, 1019–1028. doi:10.1002/jts.20271

Cheung, C.-K., & Yue, X. D. (2012). Sojourn students' humor styles as buffers to achieve resilience. International Journal of Intercultural Relations, 36, 353–364. doi:10.1016/i.iiintrel.2011.10.001

Connor, K., & Davison, J. R. T. (2003). Development of a new resilience scale: The Connor-Davidson Resilience Scale (CD-RISC). Depression and Anxiety, 18, 76–82. doi:10.1002/da.10113

David, E. J. R. (2008). A colonial mentality model of depression for Filipino Americans. Cultural Diversity and Ethnic Minority Psychology, 14, 118–127. doi:10.1037/1099-9809.14.2.118

Dow, H. D., & Woolley, S. R. (2011). Mental health perceptions and coping strategies of Albanian immigrants and their families. Journal of Marital and Family Therapy, 37, 95–108. doi:10.1111/j.1752-0606.2010.00199.x

Espiritu, Y. L., &Wolf, D. L. (2001). The paradox of assimilation: Children of Filipino immigrants in San Diego. In R.G. Rumbaut, & A. Portes (Eds.), Ethnicities: Children of immigrants in America (pp. 157–186). Berkeley, CA: University of California Press.

Fung, K., & Wong, Y. (2007). Factors influencing attitudes towards seeking professional help among east and Southeast Asian immigrant and refugee women. International Journal of Social Psychiatry, 53, 216–231. doi: 10.1177/0020764006074541

Greenidge, W. L. (2007). Attitudes towards seeking professional counseling: The role of outcome expectations and emotional openness in English-speaking Caribbean college students in the United States and the Caribbean. (Doctoral dissertation). Retrieved from ProQuest. (UMI Order 3256920)



References

Guo, M., Li, S., Liu, J., & Sun, F. (2015). Family relations, social connections, and mental health among Latino and Asian older adults. Research on Aging, 37, 123–147. doi:10.1177/0164027514523298

Han, M., & Pong, H. (2015). Mental health help-seeking behaviors among Asian American community college students: The effect of stigma, cultural barriers, and acculturation. Journal of College Student Development, 56, 1–12. doi:10.1353/csd.2015.0001

Hoeffel, E. M., Rastogi, S., Kim, M. O., & Shahid, H. (2012). The Asian population: 2010 census briefs. Retrieved from https://www.census.gov/prod/cen2010/briefs/c2010br-11.pdf
Hwang, W.-C., & Ting, J. Y. (2008). Disaggregating the effects of acculturation and acculturative stress on the mental health of Asian Americans. Cultural Diversity and Ethnic Minority Psychology, 14, 147–154. doi: 10.1037/1099-9809.14.2.147

Lopez, G., Ruiz, N. G., & Patten, E. (2017). Key facts about Asian Americans, a diverse and growing population. Retrieved from http://www.pewresearch.org/fact-tank/2017/09/08/key-facts-about-asian-americans/

Mena, F. J., Padilla, A. M., & Maldonado, M. (1987). Acculturative stress and specific coping strategies among immigrant and later generation college students. Hispanic Journal of Behavioral Sciences, 9, 207–225. doi:10.1177/07399863870092006

Miletic, B. (2014). Psycho-social, work, and marital adjustment of older middle-aged refugees from the former Yugoslavia (Doctoral dissertation). Retrieved from http://hdl.handle.net/10393/30686

Miller, A. M., & Chandler, P. J. (2002). Acculturation, resilience, and depression in midlife women from the former Soviet Union. Nursing Research, 51, 26–32.

Museus, S. D., & Truong, K. A. (2009). Disaggregating qualitative data from Asian American college students in campus racial climate research and assessment. New Directions for Institutional Research, 142, 17–26. doi:10.1002/ir.293

Reyes, A. T., & Constantino, R. E. (2016). Asian American women's resilience: An integrative review. Asian/Pacific Island Nursing Journal, 1, 105–115. doi:10.9741/23736658.1048 Sanchez. F., & Gaw. A. (2007). Mental health care of Filipino Americans. Psychiatric Services. 58, 810–815. doi:10.1176/ps.2007.58.6.810

Singh, S., Schulz, A. J., Neighbors, H. W., & Griffith, D. M. (2017). Interactive effect of immigration-related factors with legal and discrimination acculturative stress in predicting depression among Asian American immigrants. Community Mental Health Journal, 53, 638–646. doi:10.1007/s10597-016-0064-9

Thikeo, M., Florin, P., & Ng, C. (2015). Help seeking attitudes among Cambodian and Laotian refugees: Implications for public mental health approaches. Journal of Immigrant and Minority Health, 17, 1679–1686. doi:10.1007/s10903-015-0171-7

Ungar, M. (2008). Putting resilience theory into action: Five principles for intervention. In L. Liebenberg & M. Ungar (Eds.) Resilience in Action (pp. 17–38). Toronto, Canada: University of Toronto Press; 2008:17–38.

U.S. Census Bureau. (2011). Filipino-born population, by age and sex, for the United States: 2011. Retrieved from https://www.migrationpolicy.org/programs/data-hub/charts/filipino-born-population-age-and-sex-united-states-2011

U.S. Census Bureau. (2017). Annual estimates of the resident population by sex, race alone or in combination, and Hispanic origin for the United States, states, and counties: April 1, 2010 to July 1, 2016. Retrieved from https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk

Whealin, J. M., Nelson, D., Stotzer, R., Guerrero, A., Carpenter, M., & Pietrzak, R. H. (2015). Risk and resilience factors associated with posttraumatic stress in ethnoracially diverse National Guard members in Hawai'i. Psychiatry Research, 227, 270–277. doi:10.1016/j.psychres.2015.02.023

Whealin, J. M., Stotzer, R., Nelson, D., Li, F., Liu-Tom, H.-T. T., & Pietrzak, R. H. (2013). Evaluating PTSD prevalence and resilience factors in a predominantly Asian American and Pacific Islander sample of Iraq and Afghanistan veterans. Journal of Affective Disorders, 150, 1062–1068. doi:10.1016/j.jad.2013.05.044

Ying, Y., & Han, M. (2006). The effect of intergenerational conflict and school-based racial discrimination on depression and academic achievement in Filipino American adolescents. Journal of Immigrant & Refugee Studies, 4, 19–35. doi:10.1300/J500v04n04_03

Yoo, M., Choi, S. Y., Kim, Y. M., Han, S., Yang, N., Kim, H., Son, Y. (2013). Acculturative stress, resilience, and depression among Chinese students in Korea. The Journal of Korean Academic Society of Nursing Education, 19(3), 320-329.

Yu, X., Stewart, S., Liu, I., & Lam, T. (2014). Resilience and depressive symptoms in mainland Chinese immigrants to Hong Kong. Social Psychiatry & Psychiatric Epidemiology, 49, 241–249. doi:10.1007/s00127-013-0733-8



Acculturative Stress and Resilience among Older Filipino Americans

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Learning Objectives

- 1. To describe the relationship between acculturative stress and resilience among older Filipino Americans in the U.S.
- 2. To describe the physical and mental health selfevaluations of older Filipino Americans in the U.S.
- *No conflict of interest

The study is funded by Asian American Pacific Islander Nurses Association (AAPINA): Geropsychiatric Research Grant (2016-2018).



Background

 Acculturation is a multidimensional process in which individuals adapt to a new country (Sam and Berry 2010; Serafica et al., 2016).

 Acculturative stress refers to the stress that occurs during the process of acculturation (Jang et al., 2010).



Background (cont.)

- Older immigrant populations are increasing and will continue
- Immigration-related stress can drain one's inner resources
- Immigration can trigger or intensify stress during acculturation which may negatively affect an individual's physical and mental health (Singh et al., 2015).



Background (cont.)

- Evidence suggests that level of acculturation is among the most important factors in predicting the health status of an immigrant (Ward & Geeraert, 2016).
- Understanding the relationship between aging and stress is critical, particularly for the aging immigrant population



Purpose

 The aim of this study was to explore the interplay between acculturation, acculturative stress, and resilience, and their collective impact on physical and mental health selfevaluation among older Filipino Americans.



Methods

- The study was cross-sectional from older Filipino immigrants, 55 years and older (N = 123) who were living in the western part of the United States.
- Participants were recruited using a convenience sampling, mostly from a primary care clinic with a large number of Filipino patients in Southern Nevada



Instruments

- Short Acculturation Scale for Filipino Americans (ASASFA)
- Social, Attitudinal, Familial, and Environmental (SAFE) Acculturative Stress Scale
- Connor-Davidson Resilience Scale 10 (CD-RISC-10)
- The Global Health Instrument
- Demographic Questionnaire



Results

- Participants' mean age was 67.6 years
- Almost all (99%) were born in the Philippines, and the mean length of stay in the United
 States was 25.3 years (SD = 17.67).
- The mean years of education completed was
 12.6 (SD = 3.85)
- 38% of sample had a household income between \$25,000 and \$49,999.



Table 1

Ordinary Least Square (OLS) Estimates Predicting Acculturative Stress and Resilience

	Estimates (SE)		
	Acculturative Stress	Resilience	
	(N = 122)	(N = 122)	
Intercept	123.77 (21.42)***	11.77 (6.48)	
Gender (1 = Female)	-6.16 (3.47)	-0.64 (1.85)	
Age	-0.34 (0.24)	0.01 (0.84)	
Marital Status (1 = Married)	-5.03 (5.87)	-3.78 (1.93)*	
Education	0.07 (2.53)	1.22 (0.79)	
Income	-0.07 (1.89)	0.29 (0.64)	
Level of Acculturation	-1.36 (0.28)***	0.41 (0.09)***	
R-Squared	0.24	0.25	

Note. *P = .05, ***P < .001



Table 2

Ordinary Least Square (OLS) Estimates Predicting Physical Health

	Estimates (SE)		
	Model 1	Model 2	Model 3
	(N = 123)	(N = 122)	(N = 122)
Intercept	61.29 (6.93)***	67.51 (7.38)***	62.99 (7.52)***
Gender (1 = Female)	-3.64 (1.60)*	-3.95 (1.62)*	-3.69 (1.63)*
Age	-0.22 (0.08)**	-0.23 (0.08)**	-0.23 (0.08)**
Marital Status (1 = Married)	-0.86 (1.67)	-1.12 (1.65)	0.48 (1.67)
Education	0.45 (0.69)	0.45 (0.71)	0.31 (0.70)
Income	-0.14 (0.58)	-0.15 (0.59)	-0.21 (0.58)
Level of Acculturation	0.07 (0.09)	-0.004 (0.08)	-0.03 (0.03)
Acculturative Stress	-	-0.05 (0.03)	-0.03 (0.03)
Resilience	-	-	0.15 (0.08)
R-Squared	0.12	0.14	0.16

Note. *P < .05, **P < .01, ***P < .001



Table 3

Ordinary Least Square (OLS) Estimates Predicting Mental Health

	Estimates (SE)		
	Model 1	Model 2	Model 3
	(N = 123)	(N = 122)	(N = 122)
Intercept	52.89 (7.14)***	66.70 (7.34)***	61.09 (7.68)***
Gender (1 = Female)	0.87 (1.56)	0.11 (1.46)	0.43 (1.41)
Age	-0.15 (0.08)*	-0.20 (0.07)**	-0.19 (0.07)**
Marital Status (1 = Married)	-0.74 (1.73)	-1.19 (1.58)	-0.39 (1.52)
Education	1.29 (0.69)	1.19 (0.67)	1.01 (0.67)
Income	0.01 (0.61)	0.06 (0.56)	-0.02 (0.55)
Level of Acculturation	0.09 (0.09)	-0.05 (0.09)	-0.10 (0.09)
Acculturative Stress	-	-0.11 (0.03)***	-0.08 (0.03)**
Resilience	-	-	0.19 (0.08)*
R-Squared	0.09	0.09	0.24

Note. **P* < .05, ***P* < .01, ****P* < .001



Correlation between Level of Acculturation, Acculturative Stress, Resilience, and Physical and Mental Health

	Level of Acculturation	Acculturative Stress	Resilience
Acculturative Stress	-0.47***		
Resilience	0.45***	-0.52***	
Physical Health	0.01	-0.09	0.17
Mental Health	0.16	-0.37***	0.36***

Note: ***P < .001



Discussion

- In this study, we found out that older adults with a higher level of acculturation tend to have higher resilience and lower acculturative stress.
- The most interesting finding that emerged from this study was acculturation level has no significant influence on older immigrants' self-rated physical and mental health.



Discussion (cont.)

 Our mediation analysis revealed a statistically significant positive, indirect effect of acculturation level, which suggests that it influenced both the physical and mental health of older adults, primarily by reducing their acculturative stress and increasing resiliency.



Implications and Conclusions

- Assessment of acculturative stress of older immigrants among nurses and nurse practitioners
- Strategies to enhance resiliency
- Advocacy through cultural awareness, knowledge, and skills
- Educate the family members
- More research to further explore acculturative stress among older adults



Implications and Conclusions (cont.)

- Further explore the intergenerational dynamics of older immigrants
- Resilience can serve as a cushion for acculturative stress and it can be used in older adults.

<u>Limitations</u>: Acculturation stress and resilience scores and their associations with residency were not examined; convenience sampling



Selected References

Dela Cruz, F. & Galang, C. B. (2008). The illness beliefs, perceptions, and practices of Filipino Americans with hypertension. *Journal of the American Association of Nurse Practitioners*. 20(3): 118–127.

Jang, Y. & Chiriboga, D. A. (2010). Living in a different world: Acculturative stress among Korean American elders. *Journals of Gerontology Series B: Psychological Sciences and Social Sciences*. 65B(1): 14–21.

Sam, D. L. & Berry, J. W. (2010). Acculturation: When individuals and groups of different cultural backgrounds meet. *Perspectives on Psychological Science*. 5(4): 472–481

Singh, S., McBride, K. & Kak, V. (2015). Role of social support in examining acculturative stress and psychological distress among Asian American immigrants and three sub-groups: Results from NLAAS. *Journal of Immigrant and Minority Health*. 17(6): 1597–1606

Serafica, R. & Angosta, A. (2016). Acculturation and changes in body mass index, waist circumference, and waist—hip ratio among Filipino Americans with hypertension. *Journal of the American Society of Hypertension*. 10(9): 733–740.

Ward, C. & Geeraert, N. (2016). Advancing acculturation theory and research: Acculturation process and its ecological context. *Current Opinion in Psychology*. 8: 98–104



Articles

 Serafica, R. C., & Reyes, A. T. (2019). Acculturative stress as experienced by Filipino grandparents in America: A qualitative study. *Issues in Mental Health Nursing*.

http://dx.doi.org/10.1080/01612840.2018.1543740

 Serafica, R., Lekhak, N., & Bhatta, T. (2019).
 Acculturation, acculturative stress and resilience among older immigrants. *International Nursing Review*. https://onlinelibrary.wiley.com/doi/full/10.1111/inr.12



Resilience: Understanding how Asian Immigrants Manage in the Face of Chronic Pain

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Learning Objectives

- To explore how resilience plays a significant part in the management of chronic pain among Asian Immigrants
- To describe the implications of the findings in the areas of research, education, practice, and policy
- *Supported by the Health for Nevada Award University of Nevada, Las Vegas (2018 -2019)
- *No conflict of interest



Background

- Chronic pain defined: pain that goes beyond
 3-6 months
- Global impact of chronic pain: affects about 30% of adults¹ and as high as 45% in Asian countries²
- Annual healthcare costs: \$4,500/person³
- More effective pain management is necessary considering cultural context of care



Background (cont)

- Large AI population in developed countries
- About 1 in 20 (5.7%) of the total US population are Als⁴
- About 1 in 20 (5%) adults who self-report chronic pain in the US are Als,⁵ similar % in other countries
- Als are underrepresented in chronic pain research⁶



Purpose

- Conduct an integrative review to provide an understanding on how Als manage their chronic pain
- Als are those with citizenship at birth in Asian countries > immigrated or became citizens in new countries of residence



Methods

- Whittemore and Knafl⁷ to enhance rigor and reduce bias
 - Problem Identification, Literature Search, Data Evaluation,
 Data Analyses, Presentation
 - Data Analyses: Data reduction, Display, Comparsion, Conclusion drawing, Verification)
- Literature Search: 3 researchers collaborated to conduct a systematic search
- Databases: Cochrane, EBSCO, ProQuest, PubMed, Scopus, ScienceDirect, and Web of Science.
- Search Words: Asian, Asian American, Asian immigrant, pain, and pain management, in various combinations



Methods (cont)

- Inclusion Criteria: written in English, included Als, addressed pain management
- Data Evaluation: 15 studies met inclusion criteria
 - Scientific evidence from studies were rated based on recommendations^{8,9}
- Data Analyses: Consensus reached on themes
- Data Presentation: Guidelines for Preferred Reporting Items for Systematic Reviews and Meta-Analysis¹⁰



Results

- Study designs: 1 mixed methods, 5
 quantitative (2 RCTs, 5 descriptive), 7
 qualitative (1 grounded theory, 6 descriptive)
- Participants: 7 to 2095 sample sizes, adults, majority were Chinese Americans
- 12 studies conducted in the US; others were in Australia, Canada, and UK
- 6 studies done in the past 5 years, others were older



- Overall Theme was on how resilience enhanced effective self-management (SM) among Als in chronic pain
- Als accepted and adapted to their chronic pain:
 - Something natural
 - Normal part of aging
 - Proceeded to function effectively in their lives
 - Tolerance
 - Minimal complaints
 - Exerted control over pain
 - Exercises despite the pain
 - Maintained positive affect despite the pain



- Als in chronic pain were deeply rooted in their cultural beliefs demonstrating resilience in this process
 - Chinese older adults: performed culturally-related health promotion activities daily despite pain
 - Korean women: reconstructed how they perceived pain (representation of aging, social expectations) to increase their pain tolerance
 - Cambodian refugees: pain is inferior and not as significant compared to challenges of relocation and current refugee situation
- However, resilience among Als existed in a continuum (+ end is SM and – end reflects the "breaking point"



- In demonstrating SM based on their resilience:
 - Medical Management: strong preference for Traditional Eastern Medicine (e.g, Tai Chi), ethnic healers
 - Role Management: less likely to complain and report pain, take control, believe in higher power to help address pain
 - Emotional Management: endure and manage despite the pain



Discussion

- Al's resilience to chronic pain generally resulted to improved SM
- Resilience defined: having minimal burden and dysfunction despite chronic pain
 - Operationalized in the literature through acceptance, positive affect, adaptive pain beliefs¹¹
- SM refers taking responsibility for one's care
 - Operationalized through medical management, role management, and emotional management¹²
- There are also limits to resilience and SM



Implications and Conclusions

- Clinical Practice and Education
 - Ensure Culture competence
 - Avoid stereotypes
 - Facilitate communication to address likelihood of underreporting of pain
 - Evaluate mental health in cases of unnecessary endurance to severe and persistent pain to address likelihood of underdiagnosis and undertreatment
- Research
 - Increase representation of Als in pain studies
 - Address likelihood of subgroup differences between Als



Implications and Conclusions (cont)

- Research (cont)
 - Investigate chronic pain among pediatric Als
 - Test mediating and moderating roles of resilience in SM of chronic pain
 - Evaluate resilience interventions
- Policy
 - Engage Als in policies that impact healthcare



References

¹Jackson T, Thomas S, Stabile V, Shotwell M, Han X, McQueen K. A Systematic Review and Meta-Analysis of the Global Burden of Chronic Pain Without Clear Etiology in Low- and Middle-Income Countries: Trends in Heterogeneous Data and a Proposal for New Assessment Methods. Anesth Analg. Sep 2016;123(3):739-748.

²Pongparadee C, Penserga E, Lee DJ-S, et al. Current considerations for the management of musculoskeletal pain in Asian countries: a special focus on cyclooxygenase-2 inhibitors and non-steroid anti-inflammation drugs. International Journal of Rheumatic Diseases. Aug 2012;15(4):341-347.

³Gaskin DJ, Richard P. The economic costs of pain in the United States. J Pain. Aug 2012;13(8):715-724.

⁴United States Census Bureau. QuickFacts: Population Estimates. Available at: https://www.census.gov/quickfacts/fact/table/US/PST045217.

⁵Schiller JS, Lucas JW, Ward BW, Peregoy JA. Summary health statistics for U.S. adults: National Health Interview Survey, 2010. Vital Health Stat 10. Jan 2012(252):1-207.



References (cont)

⁶Janevic MR, McLaughlin SJ, Heapy AA, Thacker C, Piette JD. Racial and Socioeconomic Disparities in Disabling Chronic Pain: Findings From the Health and Retirement Study. The Journal of Pain. 2017;18(12):1459-1467.

⁷Whittemore R, Knafl K. The integrative review: updated methodology. J Adv Nurs. Dec 2005;52(5):546-553.

⁸Melnyk BM, Fineout-Overholt F. Evidence-based practice in nursing & healthcare: A guide to best practice (3rd ed.). Philadelphia: Wolters Kluwer Health; 2015.

⁹Agency for Healthcare Research and Quality. Systems to rate the strength of scientific evidence. Evidence Report/Technology Assessment No. 47. AHRQ Publication No. 02-E016. Rockville, MD; 2002.

¹⁰Moher D, Liberati A, Tetzlaff J, Altman DG. Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. PLoS Med. Jul 21 2009;6(7):e1000097.

¹¹Alschuler KN, Kratz AL, Ehde DM. Resilience and vulnerability in individuals with chronic pain and physical disability. Rehabil Psychol. Feb 2016;61(1):7-18.

¹² Lorig KR, Holman H. Self-management education: history, definition, outcomes, and mechanisms. Annals of behavioral medicine: a publication of the Society of Behavioral Medicine. Aug 2003;26(1):1-7.



Thank you! Questions and Comments?

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