

Review of Factors Associated with Asian American Colorectal Cancer Screening Rates

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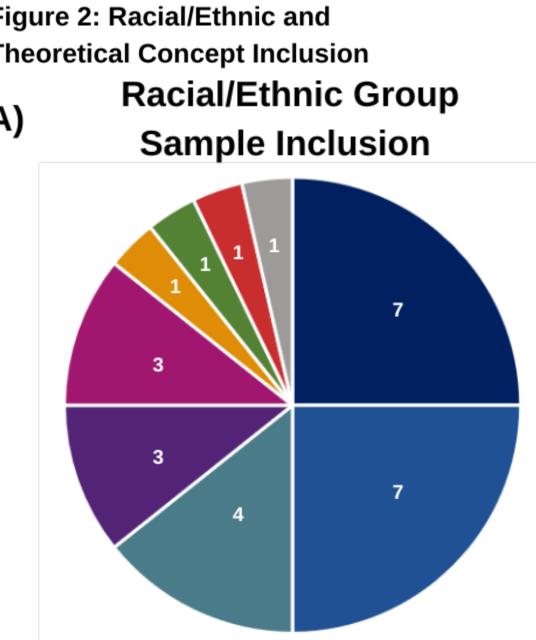
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Introduction

- Asian Americans are the fastest growing racial group in the United States, with their population projected to surpass 46 million by 2060, a 130% increase (Budiman & Ruiz, 2022)
- Asians are the only United States racial group where cancer is the leading cause of death in **both** males and females (Lee et al., 2021)
- Colorectal cancer incidence among Asian Americans is **lower** than non-Hispanic

Paper	Author (first)	Publishing Year	Sample Size	Race/Ethnicity	Sex	Theoretical Concepts	Theoretical Concept Inclusion Racial/Ethnic Group		
1	Keiko Honda	2004	360	100% Japanese	38.6% Female	Andersen Behavioral Model and Health Belief Model	A)	Sample Ir	•
2	Sabrina T Wong	2005	19,489	90.91% White 1.64% Vietnamese 1.31% Korean 1.92% Japanese 0.76% South Asian 1.44% Filipino 2.02% Chinese	53.99% Female	Andersen Behavioral Model			7
3	Judy Huei-Yu Wang	2006	433	100% Chinese	100% Female	None Mentioned			
4	Mei-Po Yip	2006	383	100% Chinese	63.2% Female	None Mentioned			
5	Angela M Jo	2008	151	100% Korean	68% Female	Health Behavior Framework (Health Belief Model, Theory of Reasoned Action/Planned Behavior, Precede	Race/Ethnicity:	 Korean Japanese Vietnamese South Asian Nepali 	 Chinese Filipinos Asian Amer Laos Laos
6	Judith	2009	808	100%	65%	Model) None Montioned			
7	Walsh Hee Yun	2013	281	Vietnamese 100% Korean	Female 45.6%	Mentioned Health Belief		1	
8	Lee Caroline A Thompson	2014	20,793	45% Chinese 23% Asian American 16% Filipinos 9% Japanese <5% Other	Female 55% Female	Model None Mentioned		3	7
9	Linda K Ko	2016	193	100% Korean	63% Female	None Mentioned		3	
10	Tsu-Yin Wu	2017	217	13% Chinese 11.6% Vietnamese 5.8% Korean 15.9%	59.7% Female	None Mentioned			
				Japanese 12.6% Laos 17.4% Nepali 23.7% Filipino			Theoretical Con	 None Me Health Be Anderser 	
11	Jane Jih	2018	725	100% Chinese	81.1% Female	Andersen Behavioral Model		Health Be	ehavior Framewo
12	Mary Y Jung	2018	120	50.8% Korean, 49.2% Chinese	60.8% Female	Health Belief Model		ote: Charts do i	
13	Shin Young Lee	2018	210	100% Korean	61% Female	None Mentioned	ind	because some cluded multiple	



Conclusions/Discussions

- Overall findings show that **multiple** levels of influence appear associated with Asian American colorectal cancer screening rates
- Access to healthcare and a physician recommendation were associated with higher rates of screening as is seen among other racial groups
- Being more acculturated, or adapted to life in the United States, was shown to be associated with **higher rates** of Asian

whites, yet mortality is higher (Lee et al., 2021)

 Overall, Asian Americans remain severely underrepresented in colorectal cancer **screening** compared to other racial groups

Thus, **the goal of this study** was to review the multiple levels of influences- individual (e.g., psychological), clinical (e.g., physician), cultural, and healthcare-associated with Asian American colorectal cancer screening rates.

Methods

- An initial PubMed database search yielded **47 results** matching the formulated search term
- 20 papers were deemed eligible for further review following abstract review. Of the 27 papers deemed ineligible:
 - n=17 (Not focused on factors)
 - n=6 (Not focused on Asians)
 - n=4 (Physician/Provider focus)

Chinese Filipinos Asian American Laos ical Concept Mentioned h Belief Model rsen Behavioral Model h Behavior Framework

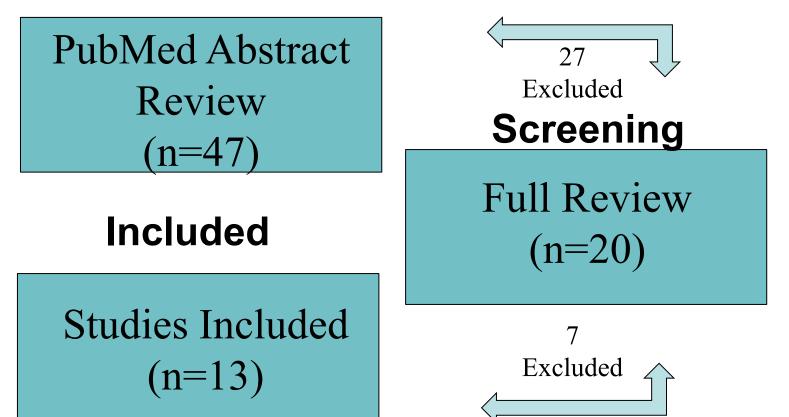
American screening compliance. However, we know that the acculturation paradox can **negatively impact** other health outcomes, so further research is needed

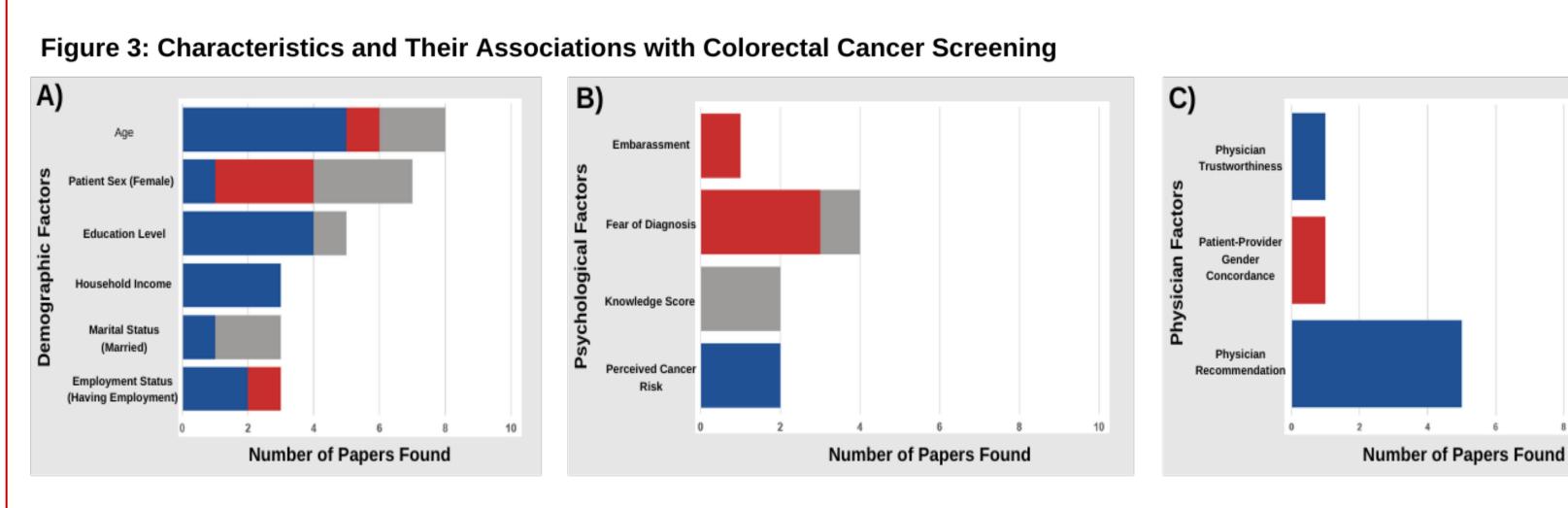
- Knowledge score was shown to **not be** associated with Asian American colorectal cancer screening
- Healthcare access and psychological factors are important, but knowledge alone may not be enough to promote changes in Asian American colorectal cancer screening behavior
- Over half the studies had no guiding theoretical concept, something important to incorporate in future studies
- Knowing this, it is important to consider physician and provider involvement to ensure meaningful steps are taken to squash this disparity
- Limitations: \bullet
 - Only PubMed was searched due to time constraints
 - Only 1 person coded the data \bullet

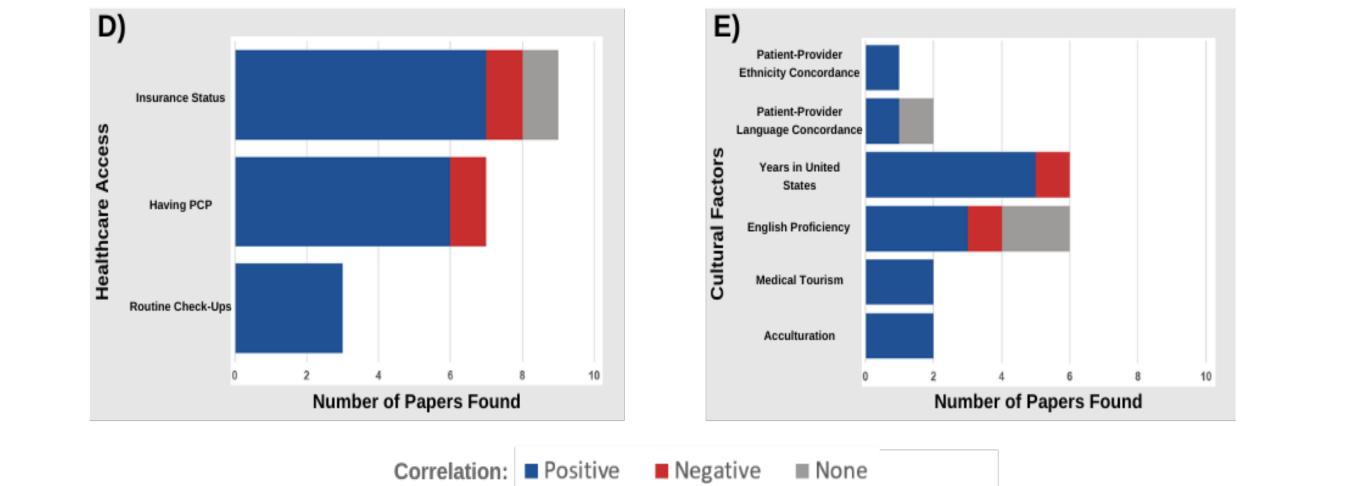
- 13 papers were deemed eligible following full paper review. Of the 7 papers deemed ineligible:
 - n=6 (No explicit measure of screening) behaviors)
 - n=1 (Review article)

A total of **13 papers** were coded across **5 domains**: demographic factors, psychological factors, physician factors, healthcare access, and cultural factors.

Figure 1: Database Search Flowchart Identification







- meaning inter-rater reliability was not possible
- Asians are very heterogeneous, and only 13 papers were reviewed, so no unique factors could be identified for each racial group

References

Budiman, A., & Ruiz, N. G. (2022, February 16). Key facts about Asian Americans, a diverse and growing population. Pew Research Center. Retrieved August 1, 2022, from https://www.pewresearch.org/fact-tank/2021/04/29/key-factsabout-asian-americans/

Lee, R., Yu, E., Posadas, E., Kim, J., & Madan, R. (2021, March 8). Disparities in cancer care and the Asian American population. Retrieved August 1, 2022, from https://theoncologist.onlinelibrary.wiley.com/doi/10.1002/onco.13748

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