

Making the case for inclusion of structural competency training in pharmacy experiential education 1Olihe Okoro, PhD, MPH, 2Nyika Friberg, BSc, 3Tobyn Chiu, MPH University of Minnesota | ¹College of Pharmacy, ²Medical School, ³School of Public Health

BACKGROUND

- Structural competency is the capacity for health professionals to recognize and respond to health and illness as the downstream effects of broad social, political, and economic structures. These structures produce the conditions in the environments where people are born, live, learn, work, play, worship, and age termed social determinants of health (SDOH).
- Dissonance in provider-patient lived experiences of social determinants may create "blind spots", limiting awareness and ability to address these critical upstream factors that influence health and patient outcomes.

OBJECTIVE: To determine whether pharmacists' SDOH risk score assessed as historical exposure, is associated with their selfassessed structural awareness (SA) – *i.e.* their cognizance of structural factors that influence health.

METHODS

DATA COLLECTION

- A web-based cross-sectional survey administered to MN pharmacists.
- Demographic information
- SDOH risk score items: Modified Protocol for Responding to and Assessing Patient Assets, Risks, and Experiences [PRAPARE] questionnaire
- Structural awareness score items: Adapted from Appendix B of the Cultural Competence Self-Assessment Questionnaire [CCSAQ]

DATA ANALYSIS

- Multiple linear regression to examine the association between pharmacists' structural awareness and SDOH risk score [excluding] race/ethnicity], while controlling for year of first licensure, primary pharmacy practice type, race, and gender.
- T-tests to determine the difference in mean SA scores with standalone predictor variables: reliance on public transportation, insurance, food insecurity, and housing insecurity.

TABLE 1. – Dem	nographic Characteristic	s of Respondents	TABLE 3. – Select Social Determinants of Respondents						
Demographic Characteristics [N=611]		Frequency (%)	Unmet Needs: Have you ever been unable to meet any of the following needs due to cost, availability, and/or accessibility for an extended period (≥ 1 month)?				No unmet needs	461 (75.5%)	
Race:			due to cost, availability, and/or acc	essibility for all	rextende	eu perioù (2		needs	
White		513 (84.0)	Transportation: Has lack of transportation kept you from medical appointments,					No needs per	564 (02 2 [%])
Asian Black/ African Amorican		58 (9.5)	meetings, work, school, etc. for an extended period (≥ 1 month)?				Jointinents,	transportation	564 (92.3%)
Black/ African American American Indian/ Alaskan Native		17 (2.8) 2 (0.3)							
Two or more/Other ($n = 6$)		2 (0.5) 21 (3.5)	Housing Instability: have you ever worried about losing your housing due to uncertainty of income?				Yes	88 (14.4%)	
Gender: Male		194 (31.8)					No	523 (85.6%)	
			Housing Situation: Has your housing situation ever been compromised by				Yes	51 (8.3%)	
Female		406 (66.6)	economic circumstances (e.g. inability to pay rent, find affordable housing)?					No	560 (91.7%)
Other		11 (1.8)	Food insecurity: Have you ever had trouble finding or getting to healthy grocery				Yes	44 (7.2%)	
Highest Level of Pharmacy Education:			stores for an extended period (\geq 1 month)?					No	567 (92.8)
Bachelor of Pharmacy		28 (4.6)	Insurance: Have you ever been without health insurance for an extended period					Yes	102 (16.7%)
PharmD		579 (94.8)	(≥ 3 months)? No 509 (83.3%)						509 (83.3%)
Other/No response (2) 4 (0.6)		4 (0.6)	TABLE 4. Difference in mean structural awareness by select variables						
Primary Pharmacy Practice Setting:				Mean Diff (y	ves-no)	9	5% CI Mean	p-Value	
Community		203 (33.2)	No Health Insurance	1.48 -0.		-0.63	3.58	0.1683	
Hospital Clinical (ambulatory)		166 (27.2)	Public Transportation Reliance	0.55		-1.04	2.14	0.4956	
Clinical (ambulatory) Managed Care		108 (17.7) 22 (3.6)	Food Insecurity	4.45		1.44	7.47	0.0039	
Other		112 (18.3)	Housing Insecurity	3.39		1.17	5.61	0.0028	
TABLE 2. – SDOH risk and Structural Awareness					-	•		d the perspectives	· ·
			"Having grown up in one of the poorest patients better, and counties in the state, I have seen how poverty the resources the					exposure helps me	
Score	SDOH RiskMean = 4.9 Median = 4 Range: 0 - 20Score[Max possible: 21]		directly impacts my patients' he		resourceful for my patients" –				
Structural			especially in terms of substance use alsoraers			spondent #228 [SDOH Risk Score : 13 SA score: 40]			
Awareness [Max possible – 57]		and mental health." – Respondent #51 [SDOH Risk Score	us nothing, so this is part of my training to others, and [it] also has						
Key Finding: SDOH Risk score significantly associated with			• • •	ass	assisted me in understanding where my patients are at in life and how to meet them there."				
structural awa	reness (95% CI; p-value	= 0.0013)	Respondent #316 [SDOH Risk score					re: 43	

RESULTS

CONCLUSION/RECOMMENDATION

Pharmacists without lived experience of adverse SDOH, or relevant exposure, are less likely to connect structural factors to clinical presentation of disease, and thus may not address these in patient care. • Experiential education should include structural competency training to equip pharmacists with the lens to recognize structural determinants and build capacity to contribute to addressing health inequity.