

# **Screening for Social Determinants of Health in a Community Pharmacy** Christina Nguyen, PharmD<sup>a,b</sup>; Eunhee Kim, PharmD<sup>b</sup>; Micah Hata, PharmD<sup>b</sup>; Lord Sarino, PharmD<sup>a</sup>; Kristen Merritt, PharmD<sup>a</sup>; Anandi Law, BPharm, MS, PhD, FAACP, FAPhA<sup>b</sup>

# Background

- The Centers for Disease Control and Prevention (CDC) describes social determinants of health (SDOH) to be the conditions in places where people live, work, and learn in and its impact on their well-being and quality of life<sup>1</sup>
- SDOH accounts for up to 80% of health outcomes, however only 16% of clinic practices and **24% of hospitals** report screening their patients' SDOH<sup>2,3</sup>
- Community pharmacists are in a unique position to **identify barriers** affecting patients' health outcomes and provide them with resources in their communities
- The CDC and Agency for Toxic Substances and Disease Registry created the social vulnerability index (SVI) as a metric to identify communities that may need support
- This study will evaluate **how often** patients connect with resources referred to them by a pharmacist employing a **SDOH screening tool** in a large retail pharmacy setting and could provide insight on areas of improvement for the screening tool

# Objectives

- **Primary Objective:** Assess the utilization of community pharmacist referrals in connecting patients with local resources that address SDOH in low vs high SVI areas **Secondary Objective:** Assess the utilization of referrals between the groups of patients
- who identified different levels of unmet needs during the screening

# Methods

Design	<ul> <li>This partially-retrospective cross-sectional study was a large community chain pharmacy and has been revia approved by the Institutional Review Board</li> <li>Data was collected from December 1<sup>st</sup>, 2021, to Febru</li> <li>Pharmacists and pharmacy interns conducted SDOH so provided a resource to the patient if a barrier to care and followed-up in 2 weeks to assess use</li> </ul>
Eligibility	<ul> <li>Inclusion criteria: patients who were given the SDOH identified at least one barrier to care</li> <li>Exclusion criteria: patients who declined the SDOH so identify any barriers to their care</li> </ul>
Evaluation	<ul> <li>Low vs High SVI was determined by individual patient</li> </ul>
Data Analysis	<ul> <li>Demographic data was analyzed using descriptive state</li> <li>Utilization comparison calculated by Fishers Exact Test</li> </ul>

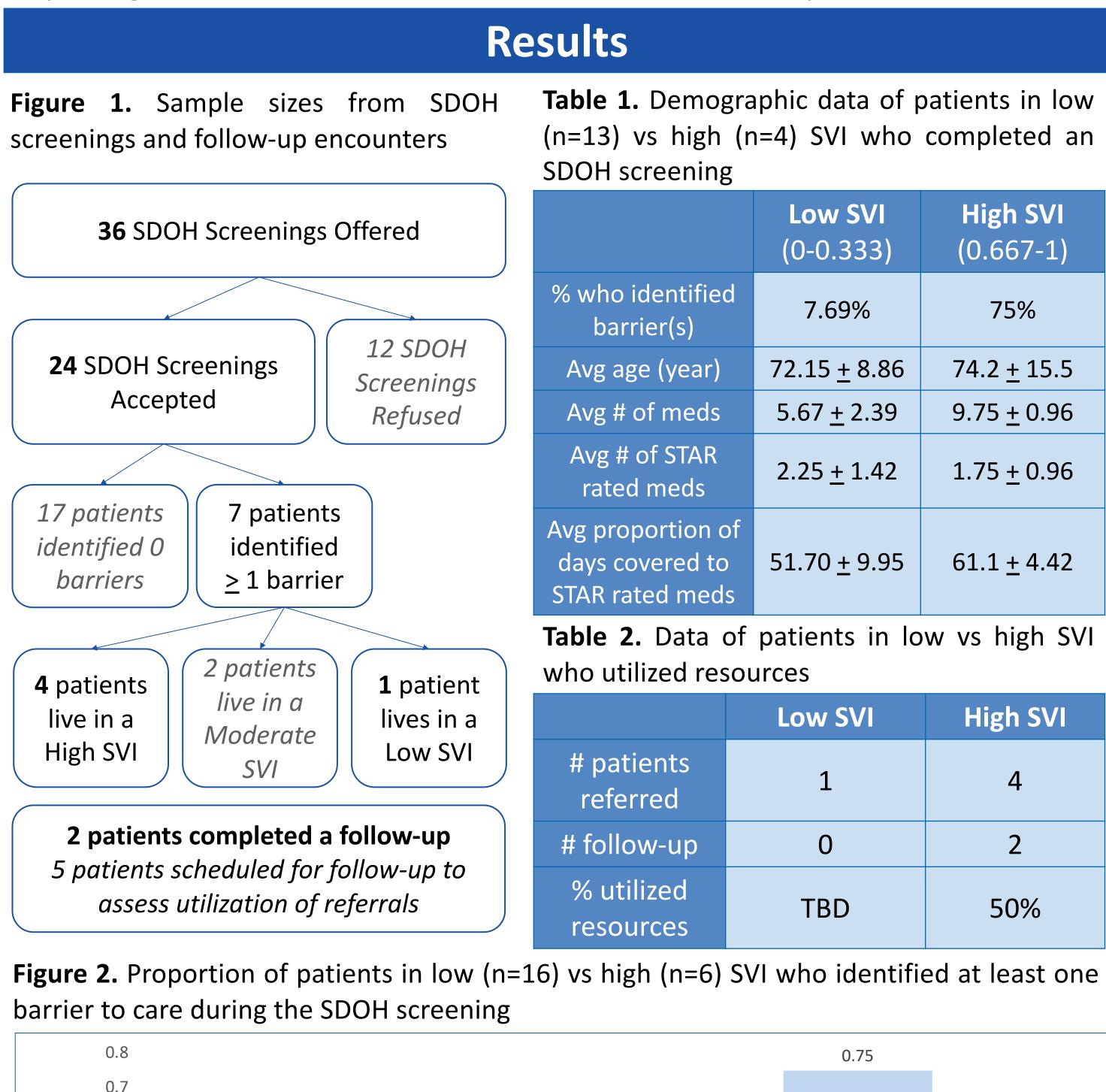
Ralphs Pharmacy, Kroger Health, Placentia, CA<sup>a</sup>; Western University of Health Sciences, Pomona, CA<sup>b</sup>

### conducted across viewed and

uary 18<sup>th</sup>, 2022 screenings, was identified,

### screening,

- creening or did not
- ts' zip codes
- atistics sts in Excel



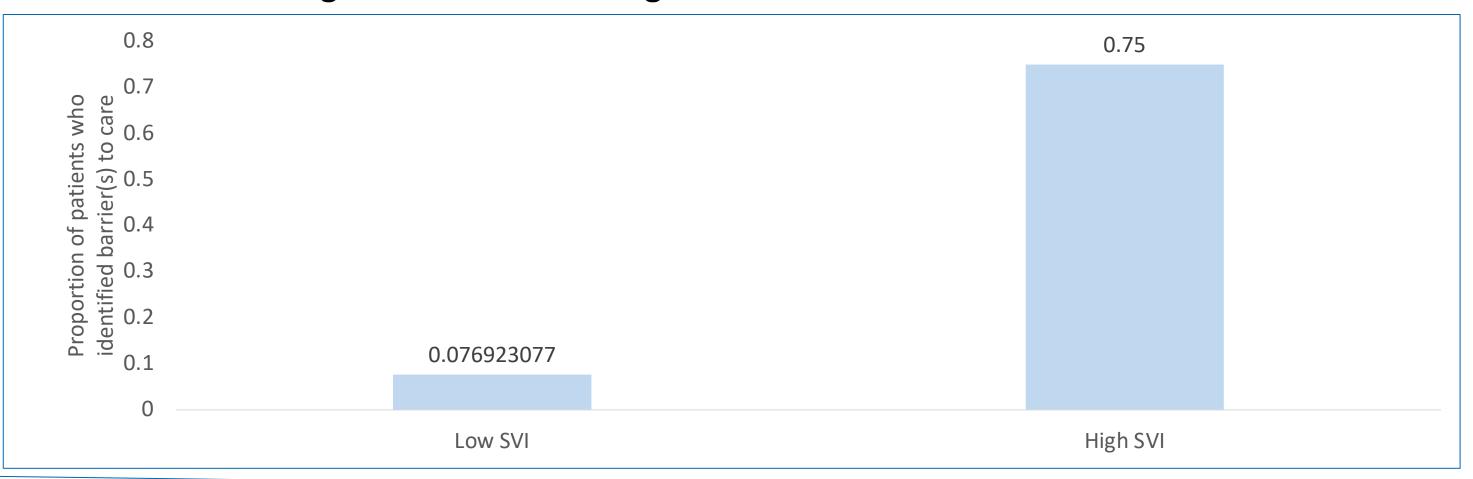


 
 Table 1. Demographic data of patients in low
 (n=13) vs high (n=4) SVI who completed an SDOH screening

	<b>Low SVI</b> (0-0.333)	<b>High SVI</b> (0.667-1)
identified rier(s)	7.69%	75%
ge (year)	72.15 <u>+</u> 8.86	74.2 <u>+</u> 15.5
of meds	5.67 <u>+</u> 2.39	9.75 <u>+</u> 0.96
of STAR d meds	2.25 <u>+</u> 1.42	1.75 <u>+</u> 0.96
portion of overed to ated meds	51.70 <u>+</u> 9.95	61.1 <u>+</u> 4.42

Table 2. Data of patients in low vs high SVI who utilized resources

	Low SVI	High SVI
ients rred	1	4
ow-up	0	2
lized urces	TBD	50%

- and was re-referred and scheduled for another follow-up

- time was dedicated to clinical tasks

- them by a pharmacist following the SDOH screening

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- https://www.atsdr.cdc.gov/placeandhealth/svi/index.html. Accessed February 15<sup>th</sup>, 2022.

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# Discussion

• Currently, approximately **29% of patients** self-identify with having SDOH barriers • Two patients have successfully received follow-ups (Table 2). One patient reported using the resource provided to them and the other patient reported forgetting

The primary resource provided to patients is a website that lists a large variety of available resources in the area, which may be limiting in terms of patients' access

• The preliminary results in **Figure 2** show a statistically significant association between SVI and proportion of patients that report having barriers to care (95% CI, p = 0.0093)

# Limitations

Lack of responses: many patients did not respond to telephonic follow-ups or were unwilling to respond to questions on the SDOH screening

Staff availability: community pharmacies were short-staffed and faced an increase in dispensing and demand for vaccination duties due to the COVID-19 pandemic, so less

**Short time period**: this is a new pilot study and is currently ongoing

# Conclusions

• As we begin conducting more follow-up encounters, we hypothesize that more patients living in high SVI versus low SVI will need and use the resources provided to

• The most common unmet need patients have identified so far were healthcare costs As pharmacists become more accustomed to providing screenings, this study should be replicated to better determine whether there is a statistical difference in patient utilization of community pharmacist-provided resources regarding SDOH

## References

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. Poor or Fair Health. County Health Rankings. (2021). https://www.countyhealthrankings.org/explore-health-rankings/measures-data-

sources/county-health-rankings-model/health-outcomes/quality-of-life/poor-or-fair-health. Accessed August 22nd, 2021.

. Centers for Disease Control and Prevention. (2021). CDC/ATSDR's social Vulnerability INDEX (SVI). Centers for Disease Control and Prevention.