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## Evidence-Based Best Practice Toolkit for Social Determinants of Health: A Program Evaluation Review

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**Evidence-Based Best Practice Toolkit for Social Determinants  
of Health:**

**A Program Evaluation Review**

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### **Abstract**

Despite an increase in healthcare expenditure, racial and ethnic disparities remain a substantial concern among adult primary care patients in the United States. This is largely due to the focus on medical intervention and disregard for the underlying factors that contribute significantly to health outcomes such as economic stability, educational access and quality, healthcare access and quality, neighborhood and built environment, and social and community context. The PICOT question that guided this program evaluation review project is: In adult clients seeking care at a primary care clinic (P), how does a SDOH toolkit based on the CDC framework (I) compared to no SDOH toolkit (C) affect identification of unmet health related social needs (O)? The evidence suggests that screening for SDOH identifies unmet social needs, improves provider referrals to relevant resources, and improves overall health outcomes. In addition, the literature supports the use and development of nursing toolkits to influence evidence-based interventions in healthcare. A detailed and thorough program evaluation review of the Centers for Disease Control and Prevention, Healthy People 2030, and the Health Leads Network SDOH programs revealed that the evaluated SDOH programs meet the requirements of a program per the CDC Program Evaluation framework. Additionally, the evidence supported the use of these programs as established to support the development of an SDOH screening toolkit for the specialty population of adult primary care patients. Screening for SDOH in adult primary care is a necessary component for improving health outcomes and use of an SDOH screening toolkit in the clinical practice setting will help assist in the smooth and successful implementation of SDOH screening for all adult primary care patients.

## **Evidence-Based Best Practice Toolkit for Social Determinants of Health: A Program Review**

“Social determinants of health (SDOH) are defined as the constructs in which people are born, live, learn, work, play, worship, and age (Healthy People 2030, n.d.). SDOH are highly influential factors for the health and wellness of individuals across the globe. These circumstances are shaped by the distribution of money, power, and resources at the local, national, and global levels (Healthy People 2030, n.d.). Socially determined circumstances and social position can negatively impact an individual’s opportunity to attain their full health potential. Underlying factors such as poverty, unequal access to healthcare, lack of education, stigma, and racism contribute to health inequities (Tikannen & Abrams, 2020).

The purpose of this DNP program evaluation review project was to search and evaluate current evidence on best practice for assessing SDOH. In addition, this paper evaluated the Centers for Disease Control and Prevention (CDC), Healthy People 2030, and the Health Leads network current SDOH screening programs and position statements to make recommendations based on evidence utilizing the CDC’s Program Evaluation framework (PEF). Finally, following evaluation of best practices and analysis of the existing programs, this project includes an up to date and relevant SDOH toolkit which includes a position statement, policy statement, screening tool examples, and current education materials for varied audiences.

### **Significance of the Practice Problem**

Addressing social determinants of health is the only way to achieve health equity (Centers for Disease Control and Prevention, 2019). Despite an increase in healthcare expenditure, racial and ethnic disparities remain a substantial concern. The United States spends more on healthcare compared to other high-income countries yet has worse health outcomes. This is largely due to the focus on medical intervention and disregard for the underlying factors that contribute significantly to health outcomes (Tikannen & Abrams, 2020.).

According to the Organization for Economic Co-operation and Development (OECD), (n.d.) the United States spends nearly twice as much on healthcare compared to other high-income countries. This is especially alarming because the U.S. has the lowest life expectancy and highest suicide rates among other high-income countries. In 2017, the average American's life expectancy was 78.6 years which is two years lower than the OECD average life expectancy.

Despite an increase in healthcare expenditure, racial and ethnic disparities remain a substantial concern. Non-Hispanic white Americans live an average of 78.8 years compared to non-Hispanic black Americans who live an average of 75.3 years (Tikannen & Abrams, 2020.). The United States has seen a dramatic decrease in infant mortality during the past eight decades; however, African American infants are 2.3 times more likely to die compared to a white infant (11.4 vs. 4.9 per 1000 births) (Singh et al., 2017).

“Racial/ethnic, socioeconomic, and geographical disparities are marked by increased morbidity and mortality from cardiovascular disease, cancer, diabetes, COPD, HIV/AIDS, homicide, psychological stress, hypertension, smoking, obesity, and access to quality health care (Singh et al., 2017, p.1942).” The U.S. has the highest chronic disease burden with one-quarter of adult Americans having been diagnosed with one or more chronic conditions. Obesity is highest among English speaking countries. Factors that contribute to obesity include unhealthy living conditions, socioeconomic and behavioral factors, and decreased access to quality food and nutrition (Tikannen & Abrams, 2020.).

According to the Robert Wood Johnson Foundation (2014) one-fifth of all American children live in poverty and nearly 50% of all black children live below the poverty line. Twenty percent of Americans live in communities with limited job opportunities, high rates of pollution, limited access to healthy food, poor housing conditions, and reduced opportunity for physical activity. By 2043, most Americans will be people of color; however, people of color disproportionately suffer due to economic disadvantages and have worse health outcomes caused by preventable reasons.

Communication deficits surrounding SDOH are a major cause for concern. Racial and cultural differences have resulted in distrust and poor communication, especially amongst black Americans and minorities (Butler & Sheriff, 2021). Poor communication reflects the shortcomings of the American health system and inhibits the goal of obtaining equitable care for all people.

The field of medicine places major emphasis on behavioral modification as the main strategy for disease and illness prevention (Andermann & CLEAR Collaboration, 2016). This approach has not proven to be the most effective strategy as individuals are not likely to be in control of health-related social factors that are contributing to their poor health outcomes (Andermann & CLEAR Collaboration, 2016). Broader interventions such as creating more supportive environments are necessary for reducing unhealthy behaviors and supporting healthy choices.

Widespread adoption of the electronic health record (EHR) has led to the creation of the Promoting Interoperability Programs (PIP) by the Centers for Medicare and Medicaid services (Chen et al., 2020). Stage three of the PIP involves the use of the EHR to demonstrate continuous quality improvement of care and elimination of healthcare inequality across all groups of people. The number of healthcare institutions that are exploring ways to capture SDOH data, referrals, and interventions to meet the needs of vulnerable populations is on the rise. Adoption of an SDOH toolkit is helpful for minimizing pitfalls and overcoming barriers to screening and treating for health-related social factors affecting patient outcomes.

### **Purpose of the Program Evaluation Project**

The purpose of the program evaluation review project was to evaluate three professional organizations and their current SDOH screening programs according to best practices so that recommendations could be made for improvement. Secondly, by evaluating existing toolkits in practice for currency and relevance, a new toolkit was developed for the specialty population of adult patients in primary care. The newly developed toolkit more accurately represents the

evidence related to reducing SDOH risks that contribute to poor adherence to health measures in at risk populations. The population of interest includes adults over age 18. The setting includes primary care clinics and any organization that supports the population of interest. The intervention includes an SDOH toolkit that was derived from evaluation of existing toolkits. In addition, the CDC's PEF served as the guide for the evaluation of the three professional organizations or government agencies so that recommendations for change could be made.

### **Project Objectives**

The objectives of this project have been outlined using the SMART format (specific, measurable, attainable, realistic, and timed) and are as follows:

1. The project manager (PM) will identify three professional organizations or government agencies current social determinants of health screening program by the end of week 5 of the project proposal development period.
2. Using the CDC's program evaluation framework, the PM will make at least two recommendations through practice/position statements by the end of week four of the project proposal development period.
3. The PM will develop a social determinants of health toolkit to include an updated position statement, policy statement, screening tool examples, and current education materials for varied audiences by the end of week four of NUR7803.

### **Program Problem Statement**

The PICOT that guided the development of this program evaluation review project is: In adult clients seeking care at a primary care clinic (P), how does a SDOH toolkit based on the CDC framework (I) compared to no SDOH toolkit (C) affect identification of unmet health related social needs (O)? The population of interest includes adults over age 18. The setting includes primary care clinics and any organization that supports the population of interest. Despite a growing interest in capturing data surrounding SDOH and the effects on health outcomes, there was a lack of an effective toolkit to conduct SDOH screening in primary care.

### **Utility of Program Review**

Evidence-based toolkits improve healthcare and facilitate practice change to a variety of audiences (Barac et al., 2014). They often include useful materials such as implementation guidelines, participant training, and audit materials which are presented in a variety of formats (Yamada et al., 2015). A definitive toolkit for SDOH screening was not located within the literature.

Relevant stakeholders for the program evaluation, analysis, and the development of the SDOH screening toolkit include: health practitioners, patients, community and health organizations, policy makers, and members of the public. Reviewing SDOH programs through the lens of stakeholders is valuable because it provides insight into the values and perspectives on the program's objectives, operations, and outcomes (CDC, 2017).

Primary care is the setting that was most influenced by completing the program change because this setting most supports the population of interest. The American Academy of Family Physicians (AAFP) reports that screening for SDOH in primary care is critical because primary care is a natural point of integration amongst other forms of healthcare (public health, behavioral health, and community-based services) (AAFP, 2022). Fifty-one percent of adults in the United States made a visit to a primary care physician in 2019 (CDC, 2021). Based on this, screening for SDOH at primary care visits has the capacity to reach vulnerable patients to provide them with the support they need to improve their health outcomes. Thus, the evaluation, analysis and revision will improve current conditions by ensuring that practice/position statements are in alignment with what the literature suggest as best practice and using the CDC's PEF.

### **Analytical Framework**

Program evaluation holds healthcare organizations accountable and committed to improving health outcomes. The CDC's PEF is a six-step process and is as follows:

1. Engage stakeholders
2. Describe the program



3. Focus the evaluation design
4. Gather credible evidence
5. Justify conclusions
6. Ensure use and share lessons learned.

Each step is interdependent but must be fulfilled to facilitate an accurate understanding of the program's context (CDC, 2017). Further discussion of each step provides a structured way to review a program and understand the standards for program effectiveness.

### **Engage Stakeholders**

The evaluation cycle began by examining those individuals or organizations that will be affected by what was learned from the evaluation and what will be done with the knowledge. The principal groups of stakeholders include those involved in program operations, those served or affected by the program, and the primary users of the evaluation. (CDC, 2017). During this step of the framework, the PM gained a better understanding of the stakeholders' values and perspectives on important elements such as the program's objectives, operations, and outcomes.

### **Describe the Program**

Detailed program descriptions were necessary to convey the mission, goals, and objectives of the program being evaluated. A complete program description should include information about the programs need, expected effects, activities, resources, stage of development, context, and logic model (CDC, 2017). Program descriptions were useful during the program evaluation project to compare the program to similar programs. In addition, it helped to facilitate the connection between the program and its effects on healthcare.

### **Focusing the Evaluation Design**

The standards for effective evaluation include utility, feasibility, propriety, and accuracy (CDC, 2017). These standards were met by planning the direction of the evaluation in advance. The PM utilized this step of the framework to clarify the intent of the evaluation, identify how the

results of the evaluation were to be used, and to develop practical methods for data collection, analysis, and interpretation.

### **Gather Credible Evidence**

A successful and credible evaluation is one that collects information that produces an accurate depiction of the program in its entirety. Credible evidence provides for subsequent strong evaluation judgments and recommendations for change (CDC, 2017). During this stage of the framework evaluation, the PM identified indicators which served as a basis for measuring meaningful effects of the program (i.e.: ability to deliver services, client satisfaction, resource efficiency, etc.).

### **Justify Conclusions**

Evaluation of conclusions can only be justified when they have been linked to the evidence gathered and when they have been compared to agreed upon benchmarks set by the stakeholders (CDC, 2017). This process required standards, analysis and synthesis, interpretation, judgement, and recommendations. The standards served as a basis for developing judgments about the program's performance success. Analysis and synthesis pinpointed patterns and findings about the evidence gathered. Interpretation was useful for understanding the significance of the information learned during the project evaluation. Judgements were made about the significance of the program by comparing the findings to other pre-selected standards. Finally, the recommendation to continue, expand, redesign, or terminate a program was based on evidence and stakeholder values.

### **Ensure Use and Share Lessons Learned**

The ensure use and share lessons learned phase of the framework involves the translation of evaluation findings into practice. The purpose of this step was to ensure that the evaluation achieved its primary purpose (CDC, 2017). Thus, the PM described the essential features of the program, defined the focus of the evaluation and any limitations, identified the strengths and weaknesses, and discussed any recommendations for action.

### **Evidence Search Strategy, Results, and Evaluation**

The Cumulative Index to Nursing and Allied Health Literature (CINAHL) and PubMed database were searched using the following Boolean operator, (social determinants of health) AND (social determinants of health screening tool). Key terms include *social determinants of health, health equity, health inequality, health disparity, health risk assessment, and social determinants of health screening tool*. An additional CINAHL search was performed with the following Boolean operator, nursing AND toolkit AND best practice. Inclusion criteria are articles that contain at least one or more social determinant of health categories or toolkit related topics. Filter criteria include academic journals, full text, peer reviewed articles, articles from the United States, articles published within the last 25 years, and articles written in the English language. Exclusion criteria are articles that measure patient perception in relation to social determinants of health.

A literature review was conducted in the Cumulative Index to Nursing and Allied Health Literature (CINAHL) and PubMed database. The initial search was limited due to the inconsistent definitions and key words surrounding social determinants of health. The literature review was expanded to consist of articles published between 1996 – 2021. The initial screening before search limitations and screening for duplicates yielded 383 results. After applying the search limitations (full text, academic journals, peer reviewed, United States, and English language), the search yielded 276 articles. After removing 4 duplicates, 272 articles underwent further screening. A title and abstract review eliminated an additional two articles. A reference review of the articles included in the evidence table yielded an additional three articles. A total of 16 articles were included for analysis. Of the 16 articles included, the designs varied and included a systematic review, randomized controlled trial, quasi-experimental, prospective cohort, prospective intervention, pilot, observational, cross sectional, explanatory correlation, and secondary data analysis. A PRISMA diagram illustrates the evidence selection process (Figure 1).

The John Hopkins Nursing Evidence-Based Practice evidence level and quality grade (Table 1) was used to grade the level and quality of evidence for this literature search result (Dang & Dearholt, 2017). The primary research included level I, II, and III evidence with a quality grade ranging from A-B (Appendix A). The search yielded six level I articles (Fowler & Reising, 2021; Hassann et al., 2015; Okafor et al., 2020, Omary et al., 2021; Garg et al., 2015, Sokol et al., 2019), three level II articles (Bechtel et al., 2021; Califf et al., 2021, To et al., 2014) and seven level III articles (Bittner et al., 2021; Buitron de la Vega et al., 2019; Baer et al., 2015; Sokol et al., 2021, Tsui et al., 2021, Kushel et al., 2006; Rust et al., 2020). There was one systematic review (Sokol et al., 2019) and it was classified as a level 1 with a quality A rating (Appendix B).

Eight articles received a quality rating of A (Buitron de la Vega et al., 2019; Hassann et al., 2015; Okafor et al., 2020; Sokol et al., 2021; Garg et al., 2015; To et al., 2014; Sokol et al., 2019; Kushel et al., 2006). 7 articles received a quality rating of B (Baer et al., 2015; Bechtel et al., 2021; Bittner et al., 2021; Califf et al., 2021; Rust et al., 2020; Tsui et al., 2021; Fowler & Reising, 2021). One article received a quality rating of C (Omary et al., 2021).

### **Critical Appraisal of the Evidence with Themes**

A thorough analysis of the literature identified the common themes and trends associated with screening for SDOH. The literature synthesis identified the following four themes: screening successfully identifies SDOH concerns, screening for SDOH encourages referrals to community resources, screening positive for SDOH is correlated with other negative health findings, and nursing toolkits and their importance to best practices.

#### **Screening for SDOH Identifies Concerns**

Food insecurity was among the most prevalent social domain identified in the literature and is associated with other social problems such as healthcare access, housing, income insecurity, and substance use (Bear et al, 2015; Bechtel et al, 2021; Buitron de la Vega et al., 2019; Hassann et al., 2015; Okafor et al, 2020; Sokol et al., 2021; Tsui et al., 2021; Kushel et

al., 2006; To et al., 2014). Housing insecurity or hazards within the home was identified as a significant social domain need in over half of the articles included in the synthesis and is associated with postponing needed medical care, postponing medications, increased emergency department visits, and increased hospitalizations (Bear et al, 2015; Bechtel et al, 2021; Buitron de la Vega et al., 2019; Hassann et al., 2015; Sokol et al., 2021; Tsui et al., 2021; Kushel et al., 2006; To et al., 2014; Bittner et al., 2021). Financial insecurity or unemployment was identified as a major social domain problem in five different articles and results in problems affording medication (Buitron de la Vega et al., 2019; Hassann et al., 2015; Baer et al., 2015; Sokol et al., 2021; Bittner et al., 2021). In addition, an annual income of less than \$75,000 was associated with an increased risk for having greater than two unmet social needs (Tsui et al., 2015; Garg et al., 2015).

### **Screening for SDOH Encourages Referrals**

Implementation of a SDOH screening workflow was successful in identifying and providing relevant resource referrals (Buitron de la Vega et al., 2019; Hassann et al., 2015; Sokol et al., 2021; Garg et al., 2015; Bittner et al., 2021). In a randomized controlled trial of 336 mothers, they received at least one relevant resource referral, and after 12-months were enrolled in a new community resource (Garg et al., 2015). According to an observational study of 1,696 participants, 86% of participants received a relevant resource referral (Buitron de la Vega et al., 2019). Hassann et al (2015) revealed similar results with 83% of participants receiving a follow up notification for their identified need and 47% reported “completely” or “mostly” resolving their priority problem.

### **Effects of Screening Positive for Unmet Needs**

Being negatively affected by SDOH increases the risk for comorbidities and other negative health practices. According to Califf et al (2021), PHQ-9 scores were higher among unemployed, unmarried, low education individuals, females, younger participants, and those with Hispanic ethnicity. Housing and food instability was independently associated with

postponing necessary medical care, postponing medications, increased emergency department visits, and increased hospitalizations (Kushel et al., 2006). Finally, another study revealed that food insecurity in children is associated with less moderate to vigorous physical activity than food secure children and lack of adherence to physical activity in adults (Baer et al., 2015).

### **Nursing Toolkits Supporting Best Practices**

Toolkits contribute to the nursing profession as guides for best practices. They are available to provide current and relevant information on a variety of topics such as electronic health records (EHR), fall prevention, post-acute care regulations, and prevention and management of obesity in adults (Fowler et al., 2021; Omary et al., 202; Rust et al., 2020; Worsowicz & Singh, 2019). There are multiple purposes for the use of toolkits such as increasing knowledge about best practices of nursing related topics, optimization of patient outcomes, and in enhancing patient care (Fowler et al., 2021; Omary et al., 202; Rust et al., 2020; Worsowicz & Singh, 2019).

Fowler et al (2021) demonstrated improved patient outcomes following the use of a patient centered fall prevention toolkit. According to a pre and post intervention test, patients were more knowledgeable about fall risk factors and interventions, fall rates, and injury rates. Furthermore, there was an overall reduction in patient falls from 3.3% to 1.9%. Omary et al (2021) utilized a pre and post intervention test to determine nursing knowledge about use and management of EHR data into practice. One hundred percent of participants experienced a median of 17.6% increase in scores following use of the training content and assessments.

In another study, a post-acute care (PAC) toolkit was utilized across an accountable care organization to assist physicians in choosing the most appropriate PAC setting when discharging a patient to ensure optimal patient outcomes (Worsowicz & Singh, 2019). A primary care clinic in Lexington Kentucky utilized steps from the Registered Nurses Association of Ontario toolkit to implement best practice guidelines for the prevention and management of obesity in adults (Rust et al., 2020). Following a 12-week period, providers were consistently

assessing for comorbidities, setting appropriate goals, and successfully managing the weight of their obese patients. In addition, providers increased their documentation of readiness for change.

### **Program Review Recommendation Statement**

The studies included in the literature synthesis examine a variety of populations and outcomes. The recommendation to screen for SDOH is a relatively new concept, but the literature focused primarily on pediatric populations. There is limited data available to address how SDOH affects adults. However, the literature is conclusive on the idea that screening for SDOH identifies unmet social needs, improves provider referrals, and improves overall health outcomes. In addition, the literature supports the use and development of nursing toolkits to influence evidence-based interventions in healthcare.

Based on this literature review, the recommendation is that SDOH programs should be reviewed in accordance with the CDC's PEF to guide the development of an implementation toolkit for SDOH screening in adult patients at primary care clinics. This recommendation answers the PICOT question: In adult clients seeking care at a primary care clinic (P), how does a SDOH toolkit based on the CDC framework (I) compared to no SDOH toolkit (C) affect identification of unmet health related social needs (O)?

### **Program Analysis and Evaluation Plan**

A definitive toolkit for SDOH screening was not located within the literature. Therefore, as the PM reviewed practice/position statements, the development of an implementation SDOH toolkit took place to fill the gaps between current practice and best practices as supported by the literature. The Centers for Disease Control and Prevention (CDC) Program Evaluation framework (PEF) guided the implementation of the program change and development of the SDOH toolkit.

The programs and toolkits that were selected for review are The Centers for Disease Control and Prevention, Healthy People 2030, and Health Leads (Health Leads screening

toolkit). According to the AAFP, primary care is a natural point of integration amongst other forms of healthcare (public health, behavioral health, and community-based services). Healthy People 2030, CDC, and Health Leads were selected due to their dedication to improving overall health through data driven national objectives, community-level health initiatives, accelerating practice, and targeted advocacy.

### **Engage Stakeholders**

The individuals who were affected by the program and toolkits should be used for the evaluation (CDC, 2018). The PM sought to understand the population of interest for each program and the intended audience for the toolkits. In doing so, the PM gained a better understanding of the stakeholders' values and perspectives on important elements such as the program's objectives, operations, and outcomes.

### **Describe the Program**

To accurately depict the mission, goals, and objectives of the program being evaluated, the programs inputs, activities, outputs, outcomes, impacts, and moderators should be identified (CDC, 2017). Through identification of what the program does to affect change, the PM developed a logic model (Figure 2) which created a clear depiction of the link between program activities and the intended outcomes.

### **Focusing the Evaluation Design**

The PM identified the purpose of the program and toolkit evaluation (gain insight, change practice, assess affects, and affect participants). The PM outlined the purpose of the program and toolkit evaluation as part of the project proposal. According to Harris et al. (2018) this stage of the framework guides the development of the project objectives utilizing the SMART goals format.

### **Gather Credible Evidence**

Credible evidence provides for subsequent strong evaluation judgments and recommendations for change (CDC, 2017). In searching for such evidence, the PM investigated



the partnerships, community-level health initiatives, and research conducted by the three selected programs to determine the success of each.

### **Justify Conclusions**

An analysis and synthesis of the results of the evaluation should be applied to detect patterns by isolating important findings from each program and toolkit (CDC, 2017). In addition, the examination served to detect similarities among the programs to reach a larger understanding of its value. The PM interpreted the results to answer questions about the programs performance and practical significance, and then to make recommendations. These recommendations include whether to continue, expand, redesign, or terminate the program, and are based on evidence and stakeholder values from the CDC model. The recommendations were translated into the form of a more current and relevant toolkit for SDOH.

### **Ensure Use and Share Lessons Learned**

A deliberate effort is required to ensure that the findings of the program and toolkit evaluation are distributed appropriately (CDC, 2017). As mentioned previously, the PM identified the design of the evaluation as part of the project proposal. This was important to highlight the intended purpose of the program analysis review. The PM utilized the findings of the program review to develop a toolkit for SDOH screening in primary care clinics. The PM developed a plan for dissemination to ensure the timely communication of lessons learned to the appropriate audiences.

### **Program Evaluation Discussion and Recommendations**

Programmatic evaluation of existing social determinants of health programs was conducted using the CDC's Program Evaluation framework to analyze the published content related to three SDOH programs: CDC, Healthy People 2030, and Health Leads. These programs were chosen for their emphasis on SDOH as well as applicability to the target population of adults in primary care.

The evaluation utilized the six identified categories and evaluated the three programs thoroughly using the prescribed standards within each of the six categories. Across the three programs, the PM identified consistent findings related to stakeholder engagement, programmatic description, evaluation design, evidence credibility, programmatic evaluation standards to justify conclusions, and utilization and dissemination strategies. Each category was subdivided into standards ranging in number of four to nine depending on the evaluation step. Those standards were further categorized by group (accuracy, propriety, and utility).

Each program was reviewed using the steps and standards tool and determined to meet expectations, exceed expectations, or not meet expectations based on the standard definitions and evidence review. This determination was then coded for descriptive statistical analysis with 0= not meet, 1= meet, 2= exceeds. The descriptive statistical mean value  $\geq 1$  indicates that the program consistently met the standards as related to the six program evaluation step criteria. The observations for Health People 2030 presented an average of 0.76, with CDC presented an average of 1.05, and the Health Leads program with an average of 1.11. See Table 2 for further details.

Next, the programs were evaluated to understand their relevancy to the evidence synthesized in support of the development of an SDOH toolkit specifically for the adult primary care population. This evaluation consisted of applying the identified themes and supporting evidence and analyzing the three identified programs for currency of literature and relevancy to the population. This analysis is essential to understand the gap within the relevant literature and published programs to support the development of the population specific toolkit. This was accomplished by a thorough review of the published programs against the evidence with coding of present and current (PC), present and needs updating (PU), and missing current evidence (M).

This evaluation determined that the CDC and Healthy People 2030 programs were published in two locations but the same program in terms of evidence relevancy and currency.

Due to this identification the two programs are presented in the review as a single program. Health Leads, however, differed enough in content to be evaluated as a unique program (See Table 3).

The evidence concurrency and relevancy to the literature review was statistically analyzed using Intellectus Statistical software (2021). A two-tailed Wilcoxon signed rank test was performed to understand if there was a significant difference between the analysis of the two identified programs, Healthy People 2030 (which includes the CDC duplicate program) and the Health Leads Network program. The two-tailed Wilcoxon signed rank test results were significant based on an alpha value of .05,  $V = 0.00$ ,  $z = -2.53$ ,  $p = .011$ . This indicates that the differences between Healthy\_People\_2030 and Health\_Leads\_Network are not likely due to random variation. The median of Healthy\_People\_2030 ( $Mdn = 1.00$ ) was significantly lower than the median of Health\_Leads\_Network ( $Mdn = 2.00$ ). See Figure 3 for a boxplot depiction of the ranked values of the two compared programs.

The objectives of this project were to identify and evaluate three SDOH programs, objectively analyze the program content to develop practice recommendations, and develop a SDOH toolkit for a specialty population. The evaluation results indicate that the evaluated SDOH programs meet the requirements of a program as per the CDC Program Evaluation framework. Additionally, the evidence supports the use of these programs as established to support the development of a SDOH screening toolkit for the specialty population of adult primary care patients. The evaluation conclusion determined that the Health Leads Network program, according to the CDC Program Evaluation framework and the thematic analysis for currency and relevancy of evidence, is the more complete program for social determinants of health.

Limitations of this review include the program evaluation was completed utilizing public, published content for programmatic implementation, but did not measure programs in use currently. Subject matter experts were consulted in the development of the SDOH for adult

primary care toolkit, but the toolkit has not been placed into use at this time. See Appendix G for the Adult Primary Care SDOH Screening toolkit.

### **Dissemination Plan**

Dissemination of the project was executed by the PM, who shared the project virtually with each organization discussed during the program evaluation. In addition, the PM disseminated the results via an in-person meeting the project outcomes with a primary clinic that serves uninsured and low-income populations. This project is archived within the University of Saint Augustine for Health Sciences Library Scholarship and Open Access Repository (SOAR) as a student capstone. A virtual poster presentation was submitted to disseminate the project to other DNP students and faculty at the University of St. Augustine for Health Sciences.

### **Conclusion**

With growing interest in SDOH and its effects on health outcomes, a program evaluation review of the CDC, Health Leads, and Healthy People 2030 was a unique way to answer questions about the program's performance and practical significance so that recommendations for change could be made. The objectives of this project were to identify and evaluate three SDOH programs, objectively analyze the program content to develop practice recommendations, and develop a SDOH toolkit for a specialty population. The evaluation results indicate that the CDC's, Healthy People 2030, and Health Leads Network SDOH programs meet the requirements of a program as per the CDC Program Evaluation framework. Additionally, the evidence supports the use of these programs as established to support the development of a SDOH screening toolkit for the specialty population of adult primary care patients.

A synthesis of the literature was effective in evaluating the meaning and relevance of the research findings which focused on screening for SDOH, identifying possibilities for addressing those unmet needs, and the role of toolkits in nursing. A complete and thorough program evaluation in accordance with the CDC's program evaluation framework was useful for

identifying gaps between existing knowledge surrounding SDOH screening for adult patients in primary care and best practices. Identification of said gaps led to the creation of a current SDOH toolkit for adult patients in primary care clinics complete with a purpose statement, audience recommendation, key definitions, implementation strategy, evaluation strategy and tool, stakeholder engagement and analysis tool, communication planning tools, position and policy statement, screening tool examples, and education for clinicians, patients, and their support persons.

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**Table 1***JHNEBP Levels of Evidence for Articles Used in this Paper*

<b>Evidence Levels</b>	<b>Quality Grades</b>
<b>Level I</b> - Experimental study, randomized controlled trial (RCT) Systematic review of RCTs, with or without meta-analysis	<b>A</b> – High Quality
<b>Level II</b> - Quasi-experimental study, Systematic review of a combination of RCTs and quasi experimental, or quasi-experimental studies only, with or without meta-analysis	<b>B</b> – Good Quality
<b>Level II</b> - Non-experimental study Systematic review of a combination of RCTs, quasi-experimental and non-experimental studies, or non-experimental studies only, with or without meta-analysis Qualitative study or systematic review with or without a meta synthesis	<b>C</b> – Low Quality

**Table 2**

*Summary Statistics Table for Interval and Ratio Variables*

*Summary Statistics Table for Interval and Ratio Variables*

<b>Variable</b>	<b><i>M</i></b>	<b><i>SD</i></b>	<b><i>n</i></b>	<b><i>SE<sub>M</sub></i></b>	<b>Min</b>	<b>Max</b>	<b>Skewness</b>	<b>Kurtosis</b>
Healthy_People_2030_SDOH	0.76	0.54	38	0.09	0.00	2.00	-0.13	-0.27
CDC_SDOH	1.05	0.73	38	0.12	0.00	2.00	-0.08	-1.09
Health_Leads_Network	1.11	0.80	38	0.13	0.00	2.00	-0.19	-1.37

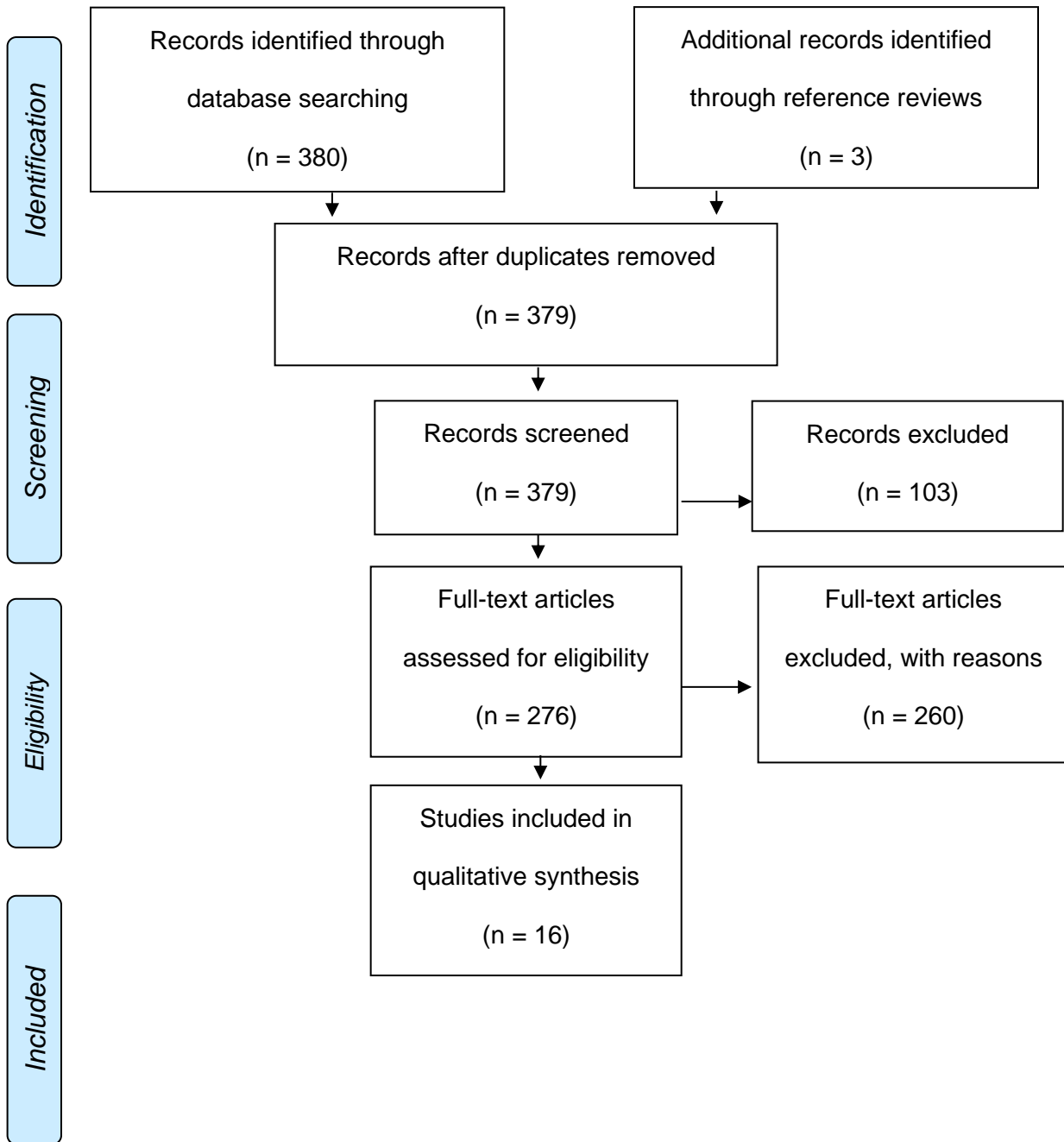
*Note.* '-' indicates the statistic is undefined due to constant data or an insufficient sample size.

**Table 3***Determination of Currency and Relevancy of Evaluated SDOH Programs*

Theme From Literature Synthesis	Relevant Evidence	<sup>a</sup> Healthy	
		People 2030	Health Leads
1. Screening for SDOH identifies concerns	1.1 FI associated with other social problems	PC	PC
	1.2 Delays in seeking medical care	PC	PC
	1.3 Medication adherence	PC	PC
	1.4 Increased ED visits and hospitalizations	PU	PC
2. Screening for SDOH encourages referrals	2.1 Relevant resource referrals	M	PC
	2.2 Follow up notifications	M	PC
	2.3 Resolution of unmet needs	M	PC
3. Effects of screening positive for unmet needs	3.1 Risk for comorbidities	PC	PC
	3.2 Decreases in physical activity	PC	PC
	3.3 Elevated PH9 scores	PC	PC
4. Nursing toolkits supporting best practices	4.1 Toolkits enhance knowledge	M	PC
	4.2 Optimization patient outcomes	M	PC
	4.3 Enhances patient care	M	PC

**Figure 1**

*PRISMA Literate Search Strategy Diagram*

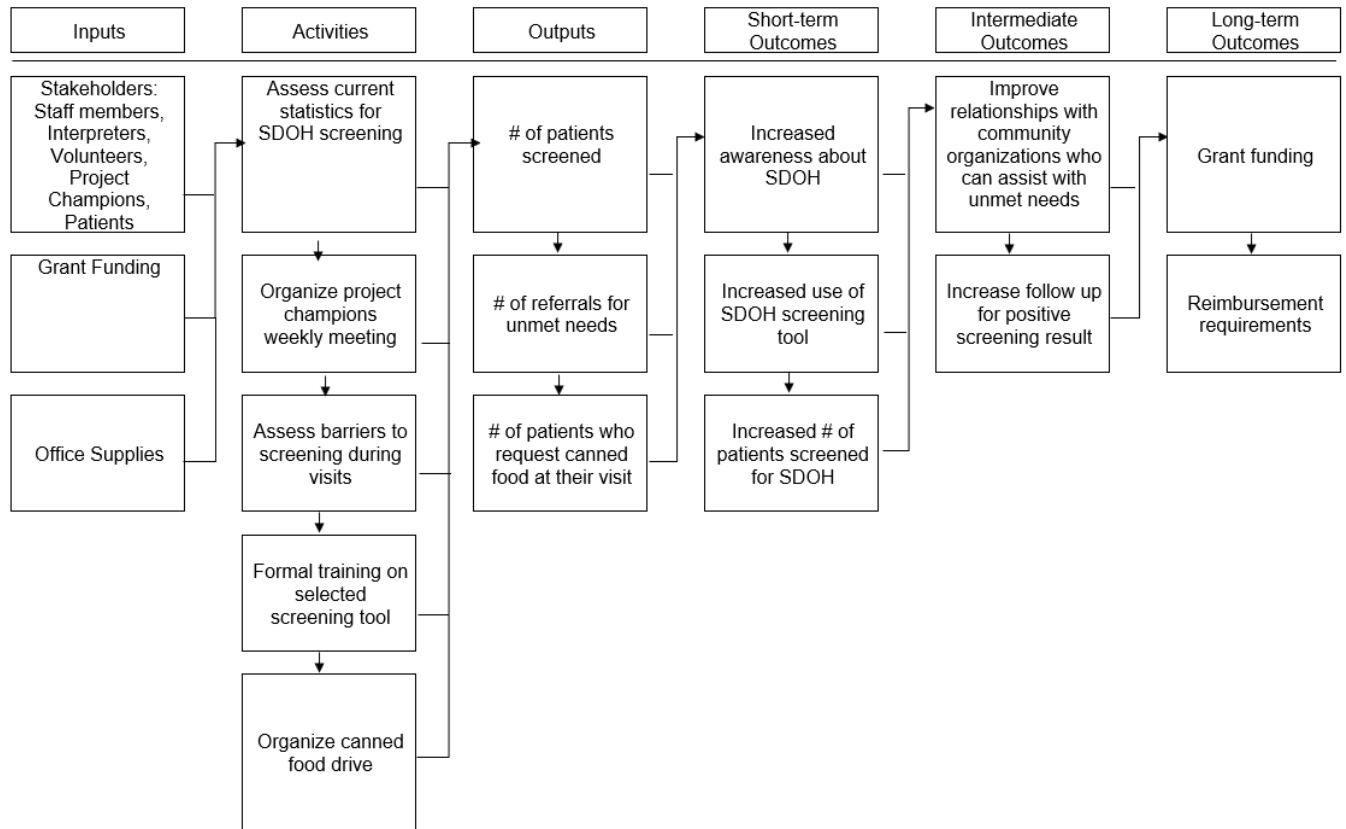


Note. Adapted from Moher, D., Liberati, A., Tetzlaff, J., & Altman, D. G. The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. *PLOS Medicine*, 6(7), e100097. <https://doi.org/10.1371/journal.pmed.100097>



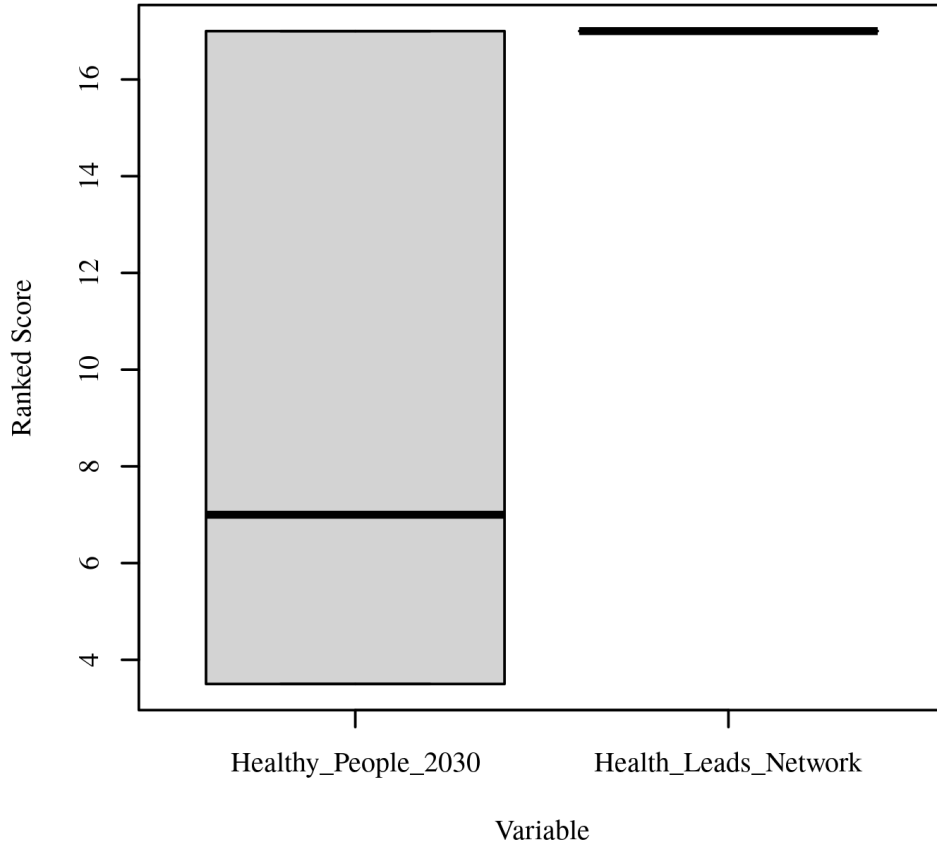
**Figure 2**

*Logic Model*



**Figure 3**

*Ranked values of Healthy People 2030 and Health Leads Network Boxplot*



Appendix A

Summary of Primary Research Evidence

Citation	Design, Level Quality Grade	Sample Sample size	Intervention Comparison (Definitions should include any specific research tools used along with reliability & validity)	Theoretical Foundation	Outcome Definition	Usefulness Results Key Findings
<p>Buitron de la Vega, P., Losi, S., Sprague Martinez, L., Bovell-Ammon, A., Garg, A., James, T., Ewen, A. M., Stack, M., DeCarvalho, H., Sandel, M., Mishuris, R. G., Deych, S., Pelletier, P., &amp; Kressin, N. R. (2019). Implementing an EHR-based screening and referral system to address social determinants of health in primary care. <i>Medical Care</i>, 57(Suppl 2). <a href="https://doi.org/10.1097/mlr.0000000000001029">https://doi.org/10.1097/mlr.0000000000001029</a></p>	<p>Observational study Level III High Quality A</p>	<p>1,696 pediatric patients</p>	<p>EHR-based SDOH screening and referral model (THRIVE), adapted from the WE CARE model for pediatrics</p> <p>WE CARE – Unemployment, caregiving, and utility needs</p> <p>The Hunger Vital Sign – food insecurity</p>	<p>N/A</p>	<p>Understand the burden of SDOH</p> <p>Evaluate feasibility of implementing a systematic clinical strategy to screen new primary care patients for SDOH</p> <p>Print patient language congruent referrals to available resources upon patient request</p>	<p>Implementing a systematic clinical strategy in primary care using EHR workflows was successful in identifying and providing resource information to patients with SDOH needs</p> <p>70% of eligible patients were screened</p> <p>Most prevalent concerns Employment (12%) food insecurity (11%) problems affording medications (11%) Housing insecurity (8%) Homelessness (7%) Transportation needs for appointments (7%) Utility needs (6%) Child and elder care needs (6%)</p>

						<p>22% requested help connecting with community resources</p> <p>86% received a relevant resource referral guide upon request (1 page resource referral guide)</p>
<p>Hassann, A., Scherer, E. A., Pikcilingis, A., Krull, E., McNickles, L., Marmon, G., Woods, E. R., &amp; Fleegler, E. W. (2015). Improving social determinants of health: Effectiveness of a web-based intervention. <i>American Journal of Preventive Medicine</i>, 49(6). <a href="https://doi.org/10.1016/s0749-3797(15)00647-9">https://doi.org/10.1016/s0749-3797(15)00647-9</a></p>	<p>Prospective Intervention Study Level I High Quality A</p>	<p>401 youth, age 15-25</p>	<p>The Online Advocate (screens for 9 HRS domains)</p> <p>Developed from validated screens and questions: Youth Risk Behavior Survey, Growing up today study, and U.S. department of Agriculture food security scales</p>	<p>N/A</p>	<p>Determine whether a web-based intervention can connect youth to services to address these problems</p> <p>Increase their resolution</p>	<p>76% identified at least 1 problem 74% identified 2 or more problems</p> <p>Most prevalent concerns healthcare access (37%) Housing (34%) Food security (29%) Income security (21%)</p> <p>83% follow up notification 40% contacted a selected agency and 47% reported “completely” or “mostly” resolving their priority problem</p>
<p>Okafor, M., Chiu, S., &amp; Feinn, R. (2020). Quantitative and qualitative results from implementation of a two-item food insecurity screening tool in healthcare settings in Connecticut. <i>Preventive Medicine Reports</i>, 20, 101191.</p>	<p>Pilot study Level I High Quality A</p>	<p>1,130 pediatric and adult patients</p>	<p>Hunger Vital Sign (Food insecurity screening)</p> <p>2 question, validated tool (97% sensitive and 83% specificity)</p>	<p>N/A</p>	<p>Assess the prevalence of households at risk for food insecurity</p>	<p>41.4% at risk for food insecurity</p> <p>40% responded sometimes or always true to “would worry food would run out before got money to buy more food”</p> <p>Male respondents had higher prevalence than</p>

<p><a href="https://doi.org/10.1016/j.pmedr.2020.101191">https://doi.org/10.1016/j.pmedr.2020.101191</a></p>						<p>females (46.3% vs 38.9%, <math>p = 0.009</math>)</p> <p>Hispanics (34.4%) less than Whites (54.4%) and Blacks (53.8%) (<math>p &lt; 0.001</math>)</p> <p>Addressing food insecurity is an important issue as low-quality diet leads to chronic health conditions.</p>
<p>Baer, T. E., Scherer, E. A., Fleegler, E. W., &amp; Hassan, A. (2015). Food insecurity and the burden of health-related social problems in an urban youth population. <i>Journal of Adolescent Health, 57</i>(6), 601–607. <a href="https://doi.org/10.1016/j.jadohealth.2015.08.013">https://doi.org/10.1016/j.jadohealth.2015.08.013</a></p>	<p>Explanatory Correlational Level III Good Quality B</p>	<p>400 patients age 15-25</p>	<p>US Household Food Security Survey Module (Ages 18-25)</p> <p>Adult Food Security Survey Module (Ages 18-25)</p> <p>Self-Administered Food Security Survey Module (ages 12-17)</p> <p>screened for 6 additional HRSD: health care access, education, housing, income insecurity, substance use, and intimate partner violence</p>	<p>N/A</p>	<p>Determine prevalence of food insecurity</p> <p>Examine association between presence and level of food insecurity with other health-related social problems</p>	<p>Most prevalent concerns</p> <p>52.8% = High food security</p> <p>14.8% = Marginal food security</p> <p>17.5% = Low food security</p> <p>32.5% = food insecure (according to USDA definition of food insecurity)</p> <p>32.5% screened positive</p> <p>food insecurity level is significantly associated with cumulative burden of social problems (<math>p &lt; .001</math>)</p> <p>Health care access (<math>p &lt; .001</math>)</p> <p>Education (<math>p = .003</math>)</p> <p>Housing (<math>p &lt; .001</math>)</p> <p>Income insecurity (<math>p = .03</math>)</p>

						Substance use ( $p < .001$ )
Bechtel, N., Jones, A., Kue, J., & Ford, J. L. (2021). Evaluation of the core 5 Social Determinants of Health Screening Tool. <i>Public Health Nursing</i> . <a href="https://doi.org/10.1111/phn.12983">https://doi.org/10.1111/phn.12983</a>	Quasi-experimental pre-post test Level II Good Quality B	311 patients aged 18 and older	Core 5 SDH screening tool (Assessing food, housing, utilities, transportation, and safety needs)	N/A	Identification of SDOH needs  Number of ED visits pre and post intervention	43% report at least 1 need  Most prevalent concerns Food insecurity - 62.2% Transportation -50.4% Utilities - 43% Housing - 38.5% Safety - 3.7%  ED visits decreased at 3 months post intervention compared to 3 months before (IRR = 0.64, 95% CI = 0.41, 0.999)
Califf, R. M., Wong, C., Doraiswamy, P. M., Hong, D. S., Miller, D. P., & Mega, J. L. (2021). Importance of social determinants in screening for depression. <i>Journal of General Internal Medicine</i> . <a href="https://doi.org/10.1007/s11606-021-06957-5">https://doi.org/10.1007/s11606-021-06957-5</a>	Prospective cohort study Level II Good Quality B	2,502	PHQ-9	N/A	Assess the relationship between PHQ-9 score and a broad array of measurements intended to assess social determinants of health	Higher PHQ-9 scores – Among female, younger participants, POC, Hispanic ethnicity, minimal education, unmarried, unemployed, and lack of health insurance  Depression = comorbidity when social determinants of health are addressed
Sokol, R. L., Mehdipanah, R., Bess, K., Mohammed, L., & Miller, A. L. (2021). When families do not request help: Assessing a social determinants of health screening tool in practice. <i>Journal of</i>	Explanatory Correlational Level III High Quality A	39,251 encounters  30,486 unique children age 0-18	SDH screening tool: Addressing food insecurity, housing insecurity, utility insecurity, financial strain, transportation needs,	N/A	% Of encounters where a SDOH need was identified  % Of encounters in which a participant requested	8% indicated a need 2% requested a resource connection  Most prevalent concerns with resource request Housing

<p><i>Pediatric Health Care</i>, 35(5), 471–478.  <a href="https://doi.org/10.1016/j.pedhc.2021.05.002">https://doi.org/10.1016/j.pedhc.2021.05.002</a></p>			<p>employment needs, elder or childcare needs, and literacy needs</p> <p>Adapted questions from the Protocol for Responding to and Assessing Patients’ Assets, Risks, and Experiences assessment tool</p>		<p>resources for identified need</p>	<p>(OR 3.49)                  Employment (OR 3.15)                  Food (OR 1.89)                  Transportation (OR 1.82)</p>
<p>Tsui, J., Yang, A., Anuforo, B., Chou, J., Brogden, R., Xu, B., Cantor, J. C., &amp; Wang, S. (2021). Health related social needs among Chinese American primary care patients during the COVID-19 pandemic: Implications for cancer screening and Primary Care. <i>Frontiers in Public Health</i>, 9.  <a href="https://doi.org/10.3389/fpubh.2021.674035">https://doi.org/10.3389/fpubh.2021.674035</a></p>	<p>Explanatory Correlational Level III                  Good Quality B</p>	<p>236</p>	<p>HRSN survey</p> <p>38 item surveys available on iPads in English and Chinese</p>	<p>N/A</p>	<p>Examine the prevalence of HRSN during a period spanning the COVID-19 pandemic</p>	<p>50% report at least 1 HRSN: (E) = 48%, (T) = 56%, (S) = 55% (<i>p</i>-value: 0.533)</p> <p>14% &gt;2 HRSN                  Housing instability: (S) = 23%, (T) = 5%, (E) = 12% (<i>p</i>-value: 0.038)</p> <p>Food insecurity: (S) = 16%, (E) = 9%, (T) = 7% (<i>p</i>-value: 0.317)</p> <p>Transportation needs: (T) = 16%, (E) = 5%, (S) = 7% (<i>p</i>-value: 0.039)</p> <p>incomes &lt; \$75,000 = higher odds of reporting ≥2 HRSNs (OR 2.53)</p>
<p>Garg, A., Toy, S., Tripodis, Y., Silverstein, M., &amp; Freeman, E. (2015). Addressing social determinants of health at Well Child Care Visits: A cluster RCT.</p>	<p>Cluster, Randomized controlled trial Level I                  High Quality A</p>	<p>336 mothers</p>	<p>WE CARE</p>	<p>N/A</p>	<p>Assess needs for child-care, education, employment, food security, household heat, and housing</p>	<p>Most families had household incomes &lt;\$20 000 (57%)                  68% had ≥2 unmet needs</p>

<p><i>PEDIATRICS</i>, 135(2).  <a href="https://doi.org/10.1542/peds.2014-2888">https://doi.org/10.1542/peds.2014-2888</a></p>						<p>WE CARE mothers received <math>\geq 1</math> referral at the index visit (70% vs 8%; adjusted odds ratio [aOR] = 29.6; 95% confidence interval [CI], 14.7–59.6).</p> <p>12-month visit, WE CARE mothers had enrolled in a new community resource (39% vs 24%; aOR = 2.1; 95% CI, 1.2–3.7)</p> <p>WE CARE mothers had greater odds of being employed (aOR = 44.4; 95% CI, 9.8–201.4).</p> <p>WE CARE children had greater odds of being in childcare (aOR = 6.3; 95% CI, 1.5–26.0)                  WE CARE families had greater odds of receiving fuel assistance (aOR = 11.9; 95% CI, 1.7–82.9)</p> <p>lower odds of being in a homeless shelter (aOR = 0.2; 95% CI, 0.1–0.9)</p>
<p>Kushel, M. B., Gupta, R., Gee, L., &amp; Haas, J. S. (2006). Housing instability and food insecurity as barriers to health care among low-income Americans. <i>Journal of</i></p>	<p>Secondary data analysis of National survey of American Families Level III High Quality A</p>	<p>16,651 low-income adults</p>	<p>Self-reported measures of past-year access (1) not having a usual source of care</p>	<p>N/A</p>	<p>Determine the association between housing instability and food insecurity and access to ambulatory</p>	<p>3.6% of subjects had housing instability                  42.7% had food insecurity                  housing instability was independently</p>



<p><i>General Internal Medicine</i>, 21(1), 71–77.  <a href="https://doi.org/10.1111/j.1525-1497.2005.00278.x">https://doi.org/10.1111/j.1525-1497.2005.00278.x</a></p>			<p>(2) postponing needed medical care                  (3) postponing medication; and past year</p> <p>utilization:                  (1) not having an ambulatory care visit                  (2) having emergency department (ED) visits                  (3) inpatient hospitalization.</p>		<p>healthcare and rates of acute healthcare utilization</p>	<p>associated with not having a usual source of care (AOR 1.31)</p> <p>postponing needed medical care (AOR 1.84)</p> <p>postponing medications (AOR 2.16)</p> <p>increased ED use (AOR: 1.43)</p> <p>increased hospitalizations (AOR 1.30)</p> <p>Food insecurity was independently associated with postponing needed medical care (AOR 1.74)</p> <p>postponing medications (AOR 2.15)</p> <p>increased ED use (AOR 1.39)</p> <p>Increased hospitalizations (AOR 1.42)</p>
<p>To, Q. G., Frongillo, E. A., Gallegos, D., &amp; Moore, J. B. (2014). Household food insecurity is associated with less physical activity among children and adults in the U.S. population. <i>The</i></p>	<p>Continuous cross-sectional study                  Level II                  High Quality                  Grade A</p>	<p>PAM: 2261 children and 2712 adults.                   PAQ: 788 children and 4886 adults</p>	<p>Physical activity measured by accelerometry (PAM)                   Physical activity measured by</p>	<p>N/A</p>	<p>Examine the association between food insecurity and physical activity in the U.S. population</p>	<p>Food insecure children did less moderate to vigorous physical activity than food secure children (P= 0.02)</p>

<p><i>Journal of Nutrition</i>, 144(11), 1797–1802.  <a href="https://doi.org/10.3945/jn.14.198184">https://doi.org/10.3945/jn.14.198184</a></p>			<p>questionnaire (PAQ) data from the NHANES</p>			<p>In adults, food insecurity was significantly associated with adherence to physical activity (<math>P = 0.03</math>) but was not associated with sedentary minutes (<math>P &gt; 0.05</math>)</p>
<p>Bittner, J. C., Thomas, N., Correa, E. T., Hatoun, J., Donahue, S., &amp; Vernacchio, L. (2021). A broad-based approach to social needs screening in a pediatric primary care network. <i>Academic Pediatrics</i>, 21(4), 694–701.  <a href="https://doi.org/10.1016/j.acap.2020.08.021">https://doi.org/10.1016/j.acap.2020.08.021</a></p>	<p>Explanatory Correlational Level III Good Quality B</p>	<p>100,097</p>	<p>Adapted from the Health Leads Tool Kit                       4 Domains: food, housing, transportation, utilities</p>	<p>N/A</p>	<p>Percentage of SDOH identified                       Referral requests</p>	<p>8% identified at least 1 social need                       Most prevalent concerns                      Financing utilities                      Outside support                      Hazards in the home                      33% requested assistance                       Medicaid assistance insured request more often than commercially insured (37% vs. 21%, <math>p &lt; 0.0001</math>)</p>
<p>Omary, C., Cox-Henley, M., Hertzberg, V. S., Cranmer, J. N., &amp; Simpson, R. L. (2021). Toolkit for Best Practice Use of Electronic Health Record Data in Quality Improvement. <i>CIN: Computers, Informatics, Nursing</i>, 39(12), 921–928.  <a href="https://doi.org/10.1097/CIN.0000000000000757">https://doi.org/10.1097/CIN.0000000000000757</a></p>	<p>Pilot Study Level I Low Quality Grade C</p>	<p>16 DNP students</p>	<p>20 questions content related skills assessment about using EHR data when planning QI initiatives                       Wilcoxon rank sum test</p>	<p>N/A</p>	<p>Pre and post-test scores</p>	<p>25% increase on the data definitions subscale (IQR, 0.0%–50.0%; Wilcoxon rank sum test, <math>p = .0033</math>)                       18% increase for QI research (IQR, 0.0%–31.3%; Wilcoxon rank sum test, <math>p = .0033</math>).                      planning QI using data (IQR, 0.0%–20.0%; <math>p = .0088</math>).                       No increase between pre- and post-test CMV/general nursing</p>

						<p>knowledge questions (0%; IQR, -16.7 to 0.0; <math>P = .1615</math>)                  No statistical differences in the change of scores based on baseline participant characteristics including level of DNP training, DNP track, years of nursing experience, age, sex, or race</p>
<p>Rust, C., Prior, R. M., &amp; Stec, M. (2020). Implementation of a clinical practice guideline in a primary care setting for the prevention and management of obesity in adults. <i>Nursing Forum</i>, 55(3), 485–490. <a href="https://doi.org/10.1111/nuf.12453">https://doi.org/10.1111/nuf.12453</a></p>	<p>Explanatory Correlational Level III Good Quality B</p>	<p>51 records of patients with overweight or obesity were randomly selected and reviewed</p>	<p>The Toolkit: Implementation of Best Practice Guidelines (2nd ed) created by the Registered Nurses' Association of Ontario (RNOA)</p>	<p>Knowledge-To-Action conceptual framework</p> <p>The framework articulates the complex process where new healthcare information is created (the “knowledge cycle”) and then applied at the bedside (the “action cycle”)</p>	<p>Audits of records were conducted during the first and third month following the educational intervention to evaluate whether the CPG was being implemented appropriately using a tool that evaluated each step of the algorithm to determine if care was congruent with the CPG recommendations.</p>	<p>Providers were setting goals and discussing strategies to promote a healthy weight in greater than 91% of reviewed episodes of care</p> <p>Readiness for weight management was being documented in less than 40% of patients with a BMI in the obese range (consistent with findings in the literature demonstrating that visit time limitations make it difficult for providers to address weight as a stand-alone health concern in patients with both obesity and comorbidities)</p> <p>Patients classified as overweight discussed weight management with providers almost 90% of the time.</p>

						Readiness for change was assessed in only about 30% of patients with a BMI ≥ 25 and a weight-related goal was set just over 40% of the time.
Worsowicz, G. M., & Singh, R. (2019). Post-Acute Care Toolkit: An Introduction to a Comprehensive Guide on Post-Acute Care Regulations. <i>PM &amp; R: Journal of Injury, Function &amp; Rehabilitation</i> , 11(9), 1013–1019. <a href="https://doi.org/10.1002/pm.rj.12201">https://doi.org/10.1002/pm.rj.12201</a>						
Fowler, S. B., & Reising, E. S. (2021). A Replication Study of Fall TIPS (Tailoring Interventions for Patient Safety): A Patient-Centered Fall Prevention Toolkit. <i>MEDSURG Nursing</i> , 30(1), 28-34	Pre and post-test intervention design Level I Good Quality Grade B	Patients on the medical telemetry unit at a 327- bed community hospital over 6 months (average of 30 patients per day)	Use of a risk assessment poster and intervention guide, as well as nursing action, to engage the patient and family in discussions of fall risk and prevention	N/A	Pre and post intervention comparison of identify fall risk and knowledge of prevention	Question 1: Identify fall risk pre-compared to 1 month p=0.035 pre-compared to 2 months p = 0.05 pre-compared to 6 months p = 0.034 Question 2: Knowledge of prevention pre-compared to 1 month p= 0.001 pre-compared to 2 months p = 0.013 pre-compared to 6 months p = 0.000

Legend:  
 SDOH or SDH – Social Determinants of Health  
 EHR – Electronic Health Record  
 (T) Chinese Traditional  
 (S) Chinese Simplified  
 HRSN - Health related social needs

HRSD – Health Related Social Domain

WE CARE - Well Child Care Evaluation Community Resources Advocacy Referral Education

ED – Emergency Department

PHQ-9 – Patient Health Questionnaire

(FRS-CVD) – Framingham Risk Score Coronary Vascular Disease

NHANES – National Health and Nutrition Examination Survey

RNOA - Registered Nurses' Association of Ontario

CPG – Clinical practice guidelines

BMI – Body mass index

Appendix B

Summary of Systematic Reviews (SR)

Citation	Quality Grade	Question	Search Strategy	Inclusion/Exclusion Criteria	Data Extraction and Analysis	Key Findings	Usefulness/Recommendation/Implications
<p>Sokol, R., Austin, A., Chandler, C., Byrum, E., Bousquette, J., Lancaster, C., Doss, G., Dotson, A., Urbaeva, V., Singichetti, B., Brevard, K., Wright, S. T., Lanier, P., &amp; Shanahan, M. (2019). Screening children for social determinants of health: A systematic review. <i>Pediatrics</i>, 144(4). <a href="https://doi.org/10.1542/peds.2019-1622">https://doi.org/10.1542/peds.2019-1622</a></p>	<p>High Quality Grade A</p>	<p>Review SDOH screening tools used with children, examine their psychometric properties, and evaluate how they detect early indicators of risk and inform care</p>	<p><b>Databases included:</b> PubMed, CINAHL, Embase via Elsevier, Cochrane Central Register of Controlled Trials, and Web of Science Core Collection.  English only  Inception of database to November 2018  Search terms: SDOHs, pediatric population, screening administered by a child service provider</p>	<p><b>Inclusion criteria:</b> Tools that screened children for multiple SDOHs United States peer-reviewed English  <b>Exclusion Criteria:</b> only screened for 1 SDOH did not conduct screening among children (age 0–25 years) or their caregivers and/or informants Not published in English Conducted outside of the United States; or were book chapters, reviews, letters, abstracts, or dissertations.</p>	<p>Extraction domains included study characteristics, screening tool characteristics, SDOHs screened, and follow-up procedures.</p>	<p>17 studies</p>	<p>future research should evaluate if referrals and interventions after the screening effectively address SDOHs and improve child well-being.</p>

Legend:  
 SDOH or SDH – Social Determinants of Health  
 WE CARE - Well Child Care Evaluation Community Resources Advocacy Referral Education

Appendix C

Project Schedule

<b>NUR 7802 DNP Practicum II</b>	W 1	W 2	W 3	W 4	W 5	W 6	W 7	W 8	W 9	W 10	W 11	W 12	W 13	W 14	W 15
Faculty conferencing-weekly - Primary Faculty	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DNP Preceptor conference biweekly - DNP Mentor/Preceptor	X		X		X		X		X		X		X		
Program Evaluation and Toolkit Development Proposal Development	X	X	X	X	X	X	X								
Introduction, Significance of the Practice Problem, Purpose of the Program Review Project, and Program Problem Statement	X														
Utility of Program Review, Analytical Framework		X													
Evidence Search Strategy, Results, and Evaluation with PRISMA diagram			X												
Critical Appraisal of the Evidence with Themes, Program Review Recommendation Statement				X											
Policy Analysis and Evaluation Plan					X										
Pre-review Toolkit Elements (Framework for toolkit)						X									
Dissemination Plan, Conclusion, and Complete Recommended Revisions to Policy Evaluation/Toolkit Proposal							X								
Program Evaluation and Toolkit Development Proposal Submission								X							
Program Evaluation and Toolkit Development Proposal Acceptance Letter									X						
Program Evaluation and Toolkit Development Proposal Toolkit Elements Permission Identification										X					
Program Evaluation and Toolkit Development Proposal Toolkit Elements Permission Letter(s)											X				
Program Evaluation and Toolkit Implementation Activities												X	X	X	X

<b>NUR 7803 DNP Practicum III</b>	W 1	W 2	W 3	W 4	W 5	W 6	W 7	W 8	W 9	W 10	W 11	W 12	W 13	W 14	W 15
Faculty conferencing-weekly - Primary Faculty	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DNP preceptor conference biweekly - DNP Mentor/Preceptor	X		X		X		X		X		X		X		
Program Evaluation Manuscript Development Activities	X	X	X	X	X	X	X	X	X	X					





## Appendix D

### CDC Practice/Position Statement

“This website connects you to CDC resources for SDOH data, research, tools for action, programs, and policy. They may be used by people in public health, community organizations, research organizations, and health care systems to assess SDOH and improve community well-being. Information and tools available on this website were generated or funded by CDC within the last 10 years (Centers for Disease Control and Prevention, n.d.)”

**<https://www.cdc.gov/socialdeterminants/index.htm>**

## Appendix E

### Healthy People 2030 Practice/Position Statement

The link below will direct the reader to the Healthy People 2030 objectives and data webpage. Healthy people 2030 groups SDOH into five domains: economic stability, education access and quality, health care access and quality, neighborhood and built environment, and social and community context. More information is available on each domain in the form of hyperlinks. In addition, information about how Healthy People 2030 addresses SDOH, the SDOH workgroup, research related to SDOH, and other efforts to address SDOH is available.

[Social Determinants of Health - Healthy People 2030 | health.gov](https://www.health.gov/healthypeople/about/2030-objectives/2030-objectives-and-data)

## Appendix F

### Health Leads Practice/Position Statement

“We are an innovation hub that seeks to unearth and address the deep societal roots of racial inequality that impact our health. Founded in 1996, we helped set the standard for health systems and clinics looking to integrate programs that connect people to essential resources like food, heat, and housing. Today, we work both nationally and locally, across the U.S., to build partnerships and redesign systems so every person, in every community, can live with health, well-being and dignity (Health Leads, 2020).”

[About Us — Health Leads \(healthleadsusa.org\)](https://healthleadsusa.org)

## Appendix G

### Evidence-Based Best Practice Toolkit for the Implementation of Social Determinants of Health Screening in Adult Primary Care Clinics



#### **PURPOSE STATEMENT:**

The purpose of this toolkit is to serve as a guide for the implementation of a social determinants of health screening (SDOH) in primary care clinics and to inspire front line clinicians to recognize and validate the connection between unmet social needs and health outcomes.

#### **AUDIENCE:**

The audience for which this toolkit includes: all primary care clinic staff members, clinicians, patients, and family/support members. Specific people of interest include family physicians, family nurse practitioners, registered nurses, medical assistants, certified nursing assistants, patients, and family members.

#### **I. DEFINITIONS:**

- A. CDC's Definition of Social Determinants of Health:** "Are conditions in the places where people live, learn, work, and play that affect a wide range of health and quality-of life-risks and outcomes to address."

- B. Healthy People 2030's Definition of Social Determinants of Health:** “Social determinants of health (SDOH) are the conditions in the environments where people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks.”
- C. CDC's Definition of Health Equity:** “Health equity is achieved when every person has the opportunity to “attain his or her full health potential” and no one is “disadvantaged from achieving this potential because of social position or other socially determined circumstances.”
- D. CDC's Definition of Health Disparity:** “Preventable differences in the burden of disease, injury, violence, or opportunities to achieve optimal health that are experienced by socially disadvantaged populations.”
- E. World Health Organizations' Definition of Health Inequality:** Differences in health status or in the distribution of health resources between different population groups, arising from the social conditions in which people are born, grow, live, work, and age.

## II. **IMPLEMENTATION STRATEGY:**

### **A. Identify the problem**

- a. It is important to identify the problem the clinic is facing. Are patients being screened for potential unmet social needs which could be contributing to poor health outcomes? Are some patients being screened when others are not? What are the negative outcomes the patients are experiencing due to their unmet needs (medication adherence, missed appointments, increased hospitalizations, etc.)?

### **B. Research and select evidence-based strategies**

- a. After the problem has been identified, evidence-based strategies and solutions should be reviewed to determine the best course of action. This toolkit is current and based on evidence-based practice recommendations for implementation of social determinants of health screening. There are a variety of current screening tools available for use as well as educational material for clinicians, patients, and support persons.

### **C. Plan for implementation**

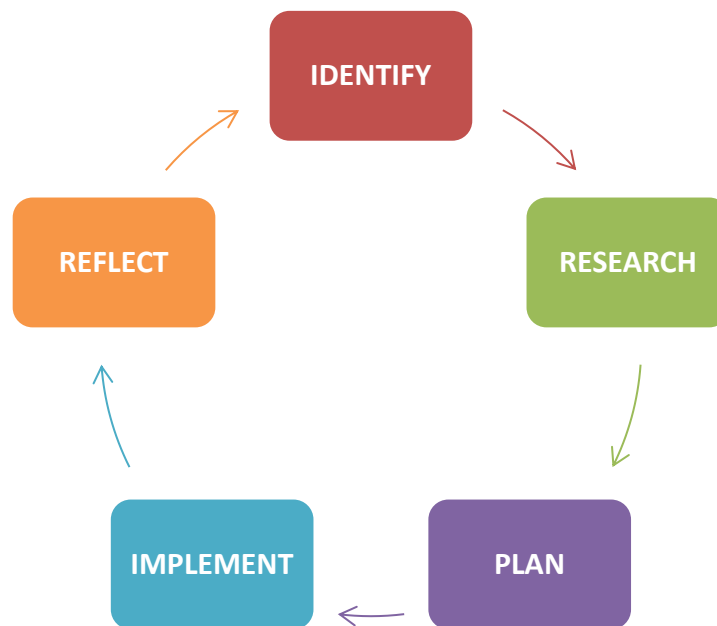
- a. SMART (Specific, Measurable, Attainable, Relevant, Time-Based) goals
- b. Staff Inclusion
  - i. Keep staff informed about important discussions regarding project implementation
  - ii. Discuss the barriers to screening
- c. Develop a timeline
  - i. Staff education
  - ii. Important meeting dates
  - iii. Implementation start date
- d. Develop a budget / identify the resources required to be successful
- e. Identify Stakeholders / Project Champions
  - i. Who are the individuals who are vital to the success of the implementation of SDOH screening?
  - ii. What individuals can assist with compliance of SDOH screening?
- f. Develop an Audit Tool
- g. Discuss questions, concerns, and provide clarification prior to initiation of project implementation

### **D. Implement Social Determinants of Health Screening**

- a. Go live celebration
- b. Monitor screening compliance
- c. Check in with project champions / stakeholders
- d. Ask questions / request feedback about implementation status from clinicians

#### **E. Reflect**

- a. After a pre-determined amount of time, reflect on the success of the project.  
Have the SMART goals been met? If not, what barriers are still in place.
- b. Review the audit tool for compliance
- c. Meet with staff, stakeholders, and project champions to discuss implementation adjustments going forward



### **III. EVALUATION STRATEGY AND TOOLS:**

A methodology is necessary to establish whether the implementation of social determinant of health screening was functional. This is done through use of an audit tool such as the one below. The tool below is generalized and can be adapted to meet the needs and goals of the clinic.

ID # \_\_\_\_\_

**\*\*TO BE COMPLETED IN TRIAGE**

<b>Completed Screening Tool</b>
<b>YES / NO</b>

**\* TO BE COMPLETED BY PROVIDER DURING PATIENT ENCOUNTER**

**Identified Needs**

- Food Insecurity
- Utilities
- Housing Instability
- Child Care
- Unable to seek medical care due to financial insecurity
- Transportation
- Requires help reading hospital materials
- Lacks companionship


<b>Patient Requests</b>	<b>Referral</b>	<b>Follow Up</b>
<b>Assistance</b>		
<b>YES / NO</b>	<b>YES / NO</b>	<b>YES / NO</b>

**IV. STAKEHOLDER ENGAGEMENT AND ANALYSIS TOOL**

Stakeholders are the individuals, group, and organizations that are most affected by the clinic. Examples of primary stakeholders include upper management, physicians, nurse practitioners, triage, patients, and their family and support people. These individuals can help facilitate change within the clinic, but they can also be responsible for resistance which could negatively impact the results of the intended change. To maintain successful relationships with the stakeholders of the project change, there must be a way to monitor stakeholder engagement. The stakeholder analysis template below is



one way to identify the stakeholders, their relationship to the project, and their level of commitment.

 <b>Stakeholder Analysis</b>											
Stakeholders			Project Relationship				Level of Commitment <small>C = Current Level R = Required Level</small>				
Name	Title	Role	Level of Impact (High, Medium, Low)	Level of Influence (High, Medium, Low)	Content Expert (Y/N)	Decision Authority (Y/N)	No Commitment	Let It Happen	Help It Happen	Make It Happen	Strategies for Moving Commitment
1)											
2)											
3)											
4)											
5)											
6)											
7)											
8)											
9)											
10)											

Version# Date : \_\_\_\_\_

**V. COMMUNICATION PLANNING TOOLS:**

Effective communication is key to the success of any project change. Communication ensures that all participants are on the same page, and it also helps to keep everyone engaged. To ensure effective communication, you must understand your audience and choose the right channel. Listed below are some examples of communication channels that may be effective for use in your clinic.

- a. Email
- b. Virtual Meetings (Zoom, TEAMS, Ring Central)
- c. Lunch and Learn
- d. In Person Meetings

**VI. POSITION STATEMENT:**

Screening for social determinants of health is a vital component of the patient's complete health history and should be reviewed and updated at least annually to ensure optimal health outcomes.

**VII. POLICY STATEMENT:**

Primary care providers should ensure that an up-to-date screening for social determinants of health is on file annually. The PCP should review the results of the screen, determine if help for the unmet social need is requested, provide an adequate resource, or refer per the clinics policy and procedures, and follow up accordingly to ensure the need has been met.

**VIII. SCREENING TOOL EXAMPLES:**

There are numerous screening tools that are prominent in the literature. The tools vary according to the populations they serve, length of the screening tool, and subject matter. Organizations and government agencies such as the Health Leads Network, The American Academy of Family Physicians, National Associations of Community Health Centers, and The Centers for Medicare & Medicaid Services have developed screening tools which can be used to identify the unmet needs of the populations that your clinic serves. The tools can be administered by clinical and non-clinical staff, or they can be distributed to the patient for self-administration. It is important to note, the screening tools available for review within this toolkit are not exclusive.

**A. Health Leads Screening Tool**

- a. <C:\Users\Owner\Desktop\Health Leads screening tool.pdf>

**B. The PRAPARE Tool**

- a. <C:\Users\Owner\Desktop\PRAPARE-English.pdf>

**C. The EveryONE project Screening Tool**

- a. <C:\Users\Owner\Desktop\AAFP social needs screening tool.pdf>

**D. The EveryONE project Screening Tool - Short Tool**

- a. [C:\Users\Owner\Desktop\Social Needs Screening Tool \(Patient Short Form\).pdf](C:\Users\Owner\Desktop\Social Needs Screening Tool (Patient Short Form).pdf)

**E. The Centers for Medicare & Medicaid Services Accountable Health**

**Communities' 10-question Health-Related Social Needs Screening Tool (AHC-HRSN)**

- a. <AHCM-HealthSocialNeedsScreeningTool.pdf>

**IX. STAFF / CLINICIAN EDUCATION TOOLS**










- a. **Social Determinants of Health an Introduction – YouTube Video**  
<https://www.youtube.com/watch?v=8PH4JYfF4Ns>
- b. **5 Social Determinants of Health in Healthy People 2030**  
<https://youtu.be/2UK7NrHOsmA>
- c. **Commercial Determinants of Health**  
[Commercial determinants of health \(who.int\)](Commercial determinants of health (who.int))
- d. **Bias Preface: Biases and Heuristics – Youtube Video**  
<https://www.youtube.com/watch?v=BwYFhJO9t50&t=41s>

**X. PATIENT / SUPPORT MEMBER EDUCATION TOOLS**

- a. **Social Determinants of Health – Factors that Influence your Health**

**SOCIAL DETERMINANTS**  
FACTORS THAT INFLUENCE YOUR HEALTH

The conditions in which you live, learn, work and age affect your health. Social determinants such as these can influence your lifelong health and well-being.

<b>HOUSING</b>  The housing crisis in the U.S. grew by more than 25% between 1980 and 2014, though rates vary.	<b>INCARCERATION</b>  The incarceration rate in the U.S. grew by more than 250% between 1980 and 2014, though rates vary.	<b>POVERTY</b> 
<b>HEALTHY FOOD</b>  6.5 million children live in low-income neighborhoods that are more than a mile from a supermarket.	<b>GRADUATION</b>  The graduation rate in the U.S. grew by more than 25% between 1980 and 2014, though rates vary.	<b>HEALTH COVERAGE</b> 
<b>LITERACY</b> 	<b>ENVIRONMENT</b> 	<b>ACCESS TO CARE</b>  More than 85% of U.S. adults had health coverage in 2014. But 30 million Americans still lacked insurance.

*The* **NATION'S HEALTH**  
U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES  
[www.thenationshealth.org/sdoh](http://www.thenationshealth.org/sdoh)