ENCompass: A Comprehensive Undergraduate Student-Led Model of Implementing a Social **Needs Screening and Referral Program**

Elizabeth L. Schwartz¹, Shreya Shaw¹, Emma Bolkovac, Divya Shankar, Shwetabh Tarun, Claire Forrestal, William D. Hayes, Lisa Raiz, and Diane L. Brogan-Habash

Abstract

Columbus, the largest city in Ohio, is an epicenter for several overlapping health disparities, including poverty, food insecurity, and infant mortality. A group of volunteer undergraduate students at The Ohio State University sought to reduce some of these disparities through the creation of ENCompass: Empowering Neighborhoods of Columbus. This student organization was developed around a dual mission to (1) address social determinants of health by screening and connecting clients with social resources and (2) cultivate interdisciplinary student leadership through immersive volunteer experiences. In its 9 years of implementation, ENCompass has developed ongoing partnerships with eight clinics and food pantries where, on a weekly basis, ENCompass volunteers conduct social needs screenings with interested clients. This article provides an in-depth description of the ENCompass program, the outcomes ENCompass has provided for the community and its student volunteers, and several lessons learned to offer guidance to those interested in developing similar programs.

Keywords: undergraduate students, social needs screening, social determinants of health, community impact, service-learning

adverse SDOH are linked to a variety of disto improve health outcomes.

he social determinants of health referrals conducted by health providers (SDOH) are "the conditions in or designated patient navigators in health which people are born, grow, care settings. Social needs screenings ask live, work, and age" (World patients to identify their potential unmet Health Organization, n.d., para. social resource needs, such as food, access 1). Income level, physical environment, to medication, transportation, and housing education, food security, social context, (Berkowitz et al., 2017). Several studies have and race are some commonly recognized shown the possible benefits of these social predictors for health outcomes, driving needs screenings. Screenings at pediatric the social gradient in health (World Health primary care centers led to reduced family Organization, n.d.). Evidence suggests that social resource needs and significant improvements in how parents reported their eases (Cockerham et al., 2017), which is why children's health 4 months after screening it is crucial that communities with poorer (Gottlieb et al., 2016). In a study that of-SDOH are equipped with adequate resources fered social needs screenings to mothers at community health clinics, researchers found that, after one year, screened mothers were One intervention for addressing the SDOH more likely to be employed and have child is social needs screening with subsequent care, and less likely to reside in a homeless

shelter (Garg et al., 2015). Moreover, patient ing, using more than 30% of their income needs (Rogers et al., 2020).

role in both individual and community health, providers often find these screenings time-intensive, hindering their implementation (Byhoff et al., 2019). Some community health centers may hire social workers or patient navigators to alleviate this issue, but not all centers have the capacity or means to support such programs. One solution, proposed by Rebecca Onie, the founder of Health Leads, in her TED Talk (Onie, 2012), could be the collaboration between clinics and hospitals with colleges and universities through the deployment of undergraduate volunteers, specifically individuals aspiring to careers in health care, social work, public health, and public policy. Undergraduate students often seek community service opportunities to develop their qualifications for their professional careers (Eley, 2003). Students who participate in community-based health activities have been found to value these experiences and be more inclined to further develop their skills in working with underserved populations (Mays et al., 2009; O'Toole et al., 1999; Ramsey et al., 2004; Weissman et al., 2001). Considering these factors, the development of a student organization that specializes in SDOH screenings in partnership with health care and community resource centers may be of interest to experts in both community health and student career development.

This article aims to describe the development and implementation of an undergraduate student-led organization to address SDOH in clients through a partnership between students at Ohio State and organizations within the Columbus, Ohio community. Ohio State is a public land-grant research university, whose main campus is housed within the city of Columbus, Ohio. With a 20.4% poverty rate (U.S. Census Bureau, n.d.), Columbus is an epicenter for several public health issues. According to the 2017 Community Health Assessment, 17.9% of households in Franklin County were food in-

attitudes toward social health screenings to pay for shelter (Community Health during health care visits are found to be Needs Assessment Steering Committee, overwhelmingly positive. Among patients 2019). The intersectionality of these and surveyed about their perceptions of social other racial and socioeconomic disparities needs screenings, 85% agreed that their exacerbates public health issues within health systems should ask about social these communities, such as infant mortality and opioid misuse (Altekruse et al., 2020; Schramm, 2016). As of 2019, Franklin Although such screenings serve a crucial County had an infant mortality rate of about 1.7 times the Healthy People 2030 target (Community Health Needs Assessment Steering Committee, 2019; Healthy People 2030, n.d.-b) and an opioid overdose rate of about 2.2 times the Healthy People 2030 target (Healthy People 2030, n.d.-a; Ohio Department of Health, 2019).

> Based on these factors, a group of Ohio State undergraduate students developed **ENCompass: Empowering Neighborhoods** of Columbus, with a goal to bridge the gap between medical and social care. These students established ENCompass's dual mission of (1) improving the health of individuals living in the community by screening and connecting them with resources that address SDOH while also (2) cultivating interdisciplinary student leadership through immersive volunteer experiences. In this article, we describe the process of establishing and sustaining ENCompass's mission and model, present ENCompass's community and volunteer findings, and share ideas for further improvement of the ENCompass program. Moreover, this article can serve as a resource for individuals from other universities interested in developing a student-led program to address SDOH in their communities.

Historical Perspective

The idea for ENCompass was first conceived in fall 2012 when a group of interdisciplinary undergraduate students enrolled in an introductory public health course and viewed the TED Talk by Rebecca Onie (2012), founder of Health Leads, titled "What If Our Healthcare System Kept Us Healthy?" Onie's idea of deploying undergraduate students to bridge medical and social care resonated with this group of students, and they began a series of discussions with the professor to determine the process to create and implement a similar program addressing SDOH and gaps in care locally.

secure (Columbus Public Health, 2017). More In spring 2013, these same students enthan one fourth of homeowners and nearly rolled in their professor's independent half of renters were cost-burdened by hous- study course so that additional faculty, peer

models of Health Leads and subsequently these efforts. cocreate, plan, and implement their vision. This course offered these students designated time to collaborate on the project and contribute ideas in a group setting. A community service project was piloted at a local free clinic, and key stakeholders helped to ensure the feasibility and sustainability of the project. Historical documents produced by these students stipulated that SDOH screenings in a clinical setting should at least address the following: (1) creation, maintenance, and updating of a commucomprehensive follow-ups with clients; (3) protection of patient/client privacy; (4) integration of clinical and social services; and (5) emphasis on interdisciplinary collaboration.

During summer 2013, the students became an official Ohio State student organization, requiring them to finalize their mission (building student leadership through community impact) and the structure/rules of the organization's general body and student Executive Board. A Faculty Advisory Board composed of faculty from the Colleges of Public Health, Social Work, and Medicine along with community business professionals was also created to support the students in developing and sustaining the program. In fall 2013, the students recruited and trained other motivated interdisciplinary students (which expanded their volunteer base), developed partnerships with local health care centers/clinics and food pantries, sought program funding to support organizational infrastructure, and applied subjects approval to collect research output/ outcome data.

Program Development

Implementation of ENCompass Mission

at local food pantries and health clinics to Institutional Training Initiative) trainings: assess client-specific SDOH. After careful screening (see Appendix A for screening Subjects Protection (CITI Program, n.d.-b) packet of information to clients for re- Behavioral Research (CITI Program, n.d.yearly components of this process, includ- mandated by the university for all stuscreenings and documentation, and the once at their assigned site to fully expose

mentors, and students could jointly explore overall organizational governance to sustain

Volunteer Recruitment

At the beginning of both fall and spring semesters, approximately 25 new undergraduate students are selected by the Executive Board to join ENCompass, providing a foundation to maintain a broad volunteer base and to generate unique ideas to advance ENCompass's mission. Undergraduate students are deliberately chosen instead of graduate students due to the larger impact nity resource database; (2) completion of they can have on the program (via more years attending the institution and more flexible schedules) and the larger impact the program can have on them (via developing students' skill sets during a formative stage in their lives). Typically, volunteers are recruited by the Member Development and Recruitment Committee during the university's involvement fair as well as by email newsletters through various colleges/ majors (typically among the social workand health-related departments). To be selected, students are required to complete both a written application and an interview. The application and interview questions are intended to gauge students' interest in public health and community service as well as their expected level of commitment to the organization. Selected students then attend a volunteer orientation, complete volunteer training, shadow experienced volunteers, and attend weekly scheduled general body meetings.

Volunteer Training

for Internal Review Board (IRB) human ENCompass volunteers complete approximately 10 hours of training. Prior to their first shift, ENCompass volunteers complete a consultation training, hosted by the Executive Board, that educates students on the ENCompass mission and model. Since volunteers interface directly with clients and collect identifiable information, they are also ENCompass volunteers meet with clients required to undergo two CITI (Collaborative (1) Social and Behavioral Training for Human form), ENCompass volunteers provide a and (2) Responsible Conduct of Social and sources to meet their individual and family a). Volunteers are asked to sign a digital needs. Documented below are essential nondisclosure conflict of interest form as ing volunteer recruitment and training, site dent researchers. Finally, volunteers must recruitment and partnership, client SDOH shadow an experienced volunteer at least them to their responsibilities and introduce Site Recruitment and Partnership them to staff at that particular site. Some volunteer sites additionally require volunteers to go through a more rigorous intake process, including collection of vaccine records, background checks, and electronic medical record training.

Volunteer Shifts

ENCompass volunteers provide consultations to interested clients at their designated sites. Each volunteer is responsible for serving their assigned weekly 2-hour shift and is typically scheduled to serve the same shift for the duration of an academic semester to fit with their class schedules. In addition to site consultations, volunteers are also expected to conduct phone follow-ups with all clients 2 weeks postconsultation.

waiting room, depending on the flow and site workflow. set-up of the site). Once volunteers are situated, they begin offering consultations (as described in the Client-Based SDOH Screenings and Documentation section). Finally, at the end of each shift, volunteers document their shift attendance, provide deidentified information about their consultations, and detail any technical or logistical issues they may have encountered during the shift.

car. ENCompass tries to reserve funds to pay a volunteer site. gas mileage for these shifts; however, this is not always possible.

When assessing new sites, ENCompass investigates two alignment factors about the sites: (1) core mission and values and (2) interactive workflow with clients. At potential sites, ENCompass volunteers conduct a 1-2 month pilot (feasibility) study to understand the site's workflow, services provided, client interactions, and office/clinic space in order to develop a plan for incorporating ENCompass services in this flow. During this feasibility study, ENCompass volunteers begin providing consultations for clients to determine the optimal workflow with input from volunteers and the site's staff. Adequate feasibility indicates confidence that sufficient numbers of clients will continue to request and be connected to SDOH resources. ENCompass finalizes its partnership with the site by coordinating a A typical volunteer shift involves a multi- weekly volunteer schedule and by obtaining step process to ensure that volunteers are site staff signatures on IRB-approved rerespecting the clients as well as the com- search documentation. The site will desigmunity site's staff. First, volunteers check nate a specific coordinator, typically a social in with the supervisor on call at the site to worker, who is familiar with the resource let them know that ENCompass is present. needs of the clients. This coordinator is the Then, volunteers set up their workspace at primary contact for all future ENCompass their designated area at the site, which is communication and serves as the liaison typically in close proximity to where both between ENCompass volunteers and the clients and staff are located (e.g., a social rest of the site staff to ensure that staff are work office, nurses' station, or near the aware of ENCompass's involvement in the

Not all previously selected sites have been optimal locations for ENCompass's work. Encountering challenges with various community sites has offered ENCompass students valuable lessons regarding the importance of examining whether ENCompass could fit into each site's workflow and structure. For instance, one of ENCompass's first volunteer sites was an acute wound care clinic. In theory, this clinic would be a good Scheduling and transportation logistics are fit since a majority of clients had considerparamount when determining volunteer able social resource needs and were often shifts. The VP of Site Engagement requests scheduled for routine care, allowing for that all volunteers provide their general ENCompass follow-ups to occur in person. weekly availability using WhenToHelp, an However, ENCompass volunteers found that online volunteer scheduling platform, and acute wound clinic patients were often in too uses this information to designate weekly much pain to complete full consultations. shifts to volunteers. Several sites are not ENCompass later chose to pilot at a differwithin walking distance from campus, nor ent nearby clinic that served a similar group can public transit be used to access these of clients but addressed overall and longsites (the furthest site is 10 miles away). For term care. ENCompass's services meshed these situations, the VP schedules at least well with this clinic's mission and workone individual per shift who has access to a flow, allowing this site to currently remain

Client-Based SDOH Screenings and Documentation

ENCompass consultations (Figure 1) begin with a pitch (Figure 2) to clients at each site. The pitch is a brief description of available services ENCompass volunteers can connect clients with, followed by asking whether the client is interested in a consultation. Some organizations, such as food pantries, require that volunteers deliver the pitch to clients in Organizational Governance the waiting area, whereas other organizations, such as clinics, allow volunteers to deliver the pitch to clients individually in their patient rooms.

At sites where the pitch is given to clients in a waiting area, clients are told where the ENCompass "workspace" is located at the site, so they have a choice to visit the workspace sometime during their visit (e.g., if they are at a food pantry, they can come before or after they receive their food). At sites where the pitch is given to individuals in their private patient rooms, these patients can let the ENCompass volunteer know whether they would like to proceed with a consultation. If they agree, the initial screening takes place in the patient room.

Information from interested clients is entered by an ENCompass volunteer into the Client Need Screening Form via FoodBank Manager software (however, future data collection and storage will use IRB-approved Qualtrics software for its increased ease of use and built-in data visualization capabilities). This form consists of contact information, current housing, employment, income, insurance status, and resource needs. Appendix A provides a full list of screening questions. Volunteers then return to their workspace to identify resources (using various resource databases such as 211, CAP4Kids, Aunt Bertha) for the client based upon the screening form. Key information about each resource is placed into a comprehensive resource packet called a "social prescription." Before the client leaves, the ENCompass volunteer gives them their resource packet and discusses the resources provided.

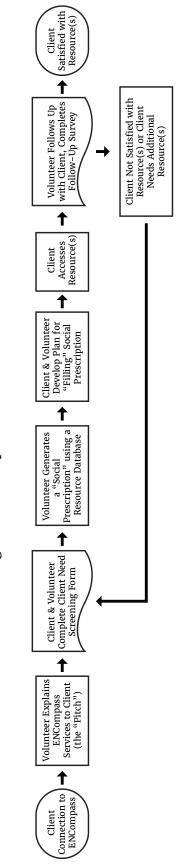
Up Survey, which inquires about which and the Faculty Advisory Board, who meet

resources the client was able to utilize and which resources were helpful to the client. Appendix B provides a full list of follow-up questions. An additional follow-up consultation is scheduled if the volunteer provided the client any additional resource recommendations during the first follow-up consultation or upon client request.

Volunteers are required to attend weekly one-hour general body meetings in addition to their shifts. These meetings are organized and presided over by the ENCompass Executive Board (Figure 3). The first half of the meeting involves general announcements, and typically speakers representing various public health, social work, and health care agencies are invited to speak to members about their work and provide insight on different community health topics. Key public health issues facing Columbus residents such as infant mortality and opioid misuse are addressed.

The second half of the meeting involves engagement with ENCompass committees. The ENCompass program enables members to utilize their diverse backgrounds and interests to serve on one of six committees within ENCompass: Site Engagement, Research and Data Analytics, Information Technology, Public Relations and Advocacy, Membership Development and Recruitment, and Outreach. In committee meetings, members collaborate to expand ENCompass's outreach, raise funds, analyze data, and optimize volunteer workflow and service delivery in response to challenges and changing community need. Each committee is led by a vice-president (VP), who is elected by the general body annually and holds the position for a one-year term. The Executive Board comprises two co-presidents, the secretary, the treasurer, and all the VPs (see Figure 3 and Table 1 for further descriptions). The Executive Board meets regularly with a faculty advisor who has worked closely with the organization since it was established. This relationship has been pivotal to ENCompass's success Two weeks after the initial consultation, due to the faculty advisor's knowledge of the ENCompass volunteer follows up with the public health field, understanding of each client served through email or Google Columbus's social issues, and ability to form Voice phone call or text, depending on the connections between the organization and client-designated contact preference from members of the university and Columbus the initial consultation. With the client, vol- communities. The faculty advisor serves as a unteers complete the ENCompass Follow- liaison between the student Executive Board

Figure 1. ENCompass Consultation Model



Note. An oval represents a starting/ending point. A rectangle with a curved bottom represents that a form/survey is completed at this point.

Figure 2. ENCompass Pitch

vision and dental care services, or anything else you may need at this time. Our services are free and confidenpantries, affordable clothing stores, rent and utilities assistance, and more. We can also help connect you with tial, and should only take around 10-15 minutes. Does this sound like something you might be interested in?" "Hi, my name is [first name] and I am a volunteer with ENCompass, a student organization at The Ohio State University. ENCompass connects individuals with various services within the Columbus area, such as food

Figure 3. ENCompass Organizational Structure

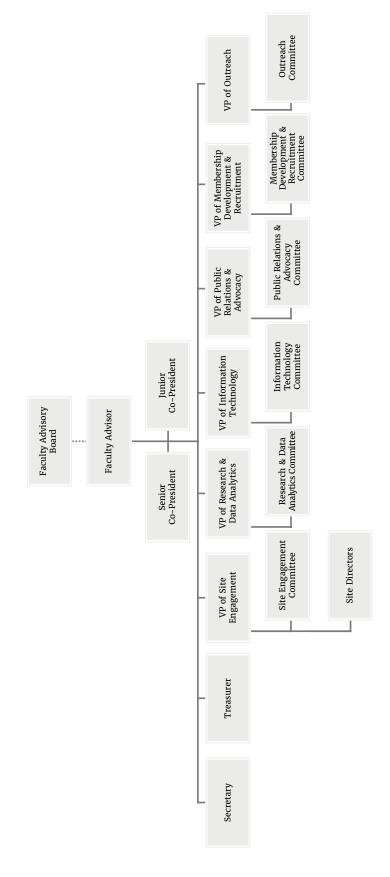


Table 1. Student Executive Board Positions and Leadership Responsibilities

Position	Leadership Responsibilities
Co-president (senior)	 Organizes and leads weekly Executive Board meetings. Helps VPs set goals each semester; revisits and reevaluates goals each semester. Facilitates transition of executive member positions each year. Grows organization by meeting community members and lobbying expansion of organization locally. Meets regularly with the faculty advisor for strategic planning. Trains junior co-president to ensure continuity and a smooth transition.
Co-president (junior)	 Works with senior co-president to determine annual goals, develop and maintain community partnerships, and lead organization and executive teams through two consecutive school years. Leads internal update presentations during weekly general body meetings. Organizes quarterly meetings each year for the student Executive Board and the Faculty Advisory Board.
Treasurer	 Manages bank accounts, prepares and maintains annual budget, oversees auditing, prepares required financial reports, requests funding, and pays organization bills. Works alongside the VP of outreach to apply for grants and funding and to coordinate fundraisers for both the organization and the community.
Secretary	Manages organizational duties of ENCompass, including monitoring of attendance, taking minutes of all general body, executive, and advisory meetings, updating organization calendar, obtaining appropriate facilities for organization meetings and activities, and reminding all members of upcoming meetings and events.
VP of site engagement	 Oversees organizational matters relating to volunteering members and handles official correspondence of ENCompass with current and future volunteer sites. Committee duties: Designates site directors at each volunteering site to help in the implementation of the ENCompass service model. Site directors are responsible for preparing biannual site reports, detailing the effectiveness and utility of ENCompass volunteers at each site, and presenting findings to both the ENCompass Executive Board and the coordinators at each site.
/P of research data analytics	 Oversees collection and analysis of volunteer consultation data. Works closely with faculty advisors to ensure IRB approval and review. Coordinates research training and develops research projects for the committee to focus on each year. Committee duties: Works alongside the Site Engagement Committee to determine new areas of need and subsequently develop new volunteer sites in these areas. Analyzes client and consultation data and curates findings to coordinate presentations and publications to showcase ENCompass's efficacy and model.
VP of information technology	 Develops and improves the online tools used by ENCompass members, including the website and resource database. Committee duties: Collaborates with Site Engagement Committee to refine the consultation process and manage technological barriers.

η	Γ_{2}	h	۱۸	1	Co	nti	nıı	hol
- 1	ıa		œ		U.O			ea

Position	Leadership Responsibilities				
VP of public relations & advocacy	 Manages the social media accounts and works alongside the VP of IT to develop the ENCompass website and online presence. Committee duties: Markets ENCompass on online platforms for both recruitment and external representation. Develops online content to educate followers on national social justice issues and methods of advocacy and reform. 				
VP of membership development & recruitment	 Coordinates all recruitment efforts, new member orientation, training, and continued education throughout the year. Committee duties: Invites speakers to general body meetings to expose members to multiple aspects of health, including topics surrounding social work, public health, and policy development. Designs activities for the general body to introduce members to new ideas and concepts within public health. 				
VP of outreach	 Plans and implements all fundraising events and community outreach activities. Committee duties: Coordinates with donors and collaborates with community organizations to coordinate fundraisers for ENCompass and other community organizations. In past years, fundraising drives have included coat drives, infant essentials, and sanitary products. 				

Note. All members of the student Executive Board also serve as volunteers, whose responsibilities are detailed in the Client-Based SDOH Screenings and Documentation section.

running smoothly.

Program Findings

with these findings.

Community Findings

Sites

quarterly to further develop new ideas and serving clients, either due to poor alignensure that organizational operations are ment found during the site's pilot feasibility study or later workflow changes that prevented continued ENCompass volunteering, include a medical student-run free clinic, a wound care clinic, two food pantries, and an Reflecting on ENCompass's dual mission to evening financial literacy program. In addi-(1) address SDOH by screening and connect-tion, ENCompass volunteers attend pop-up ing clients with social resources and (2) cul- events throughout the community, which tivate interdisciplinary student leadership have historically included events at local through immersive volunteer experiences, libraries and university-sponsored health the ENCompass program has two main sets screenings. ENCompass volunteers have also of findings: (1) community (sites versus partnered with Ohio State's Kirwan Institute clients) findings and (2) volunteer findings. for the Study of Race and Ethnicity to create Explanatory information is also included comprehensive resource maps of Columbus communities.

Strategies That Enhance ENCompass-Client Interactions

A variety of factors often influence client Since 2012, ENCompass has implemented participation rate (PR) at each site, deprogramming throughout 13 community fined as the number of clients agreeing to sites in Columbus. Eight of these partner- participate in an ENCompass consultation ships have been maintained with weekly divided by the number of clients who were volunteers still serving each site. Six of the approached. The ENCompass PR may also eight current sites are clinics (two adult free be thought of as a consent rate or takeclinics serving ethnic minority groups, two up rate. Clinics typically have higher PRs pediatric care clinics serving low-income than food pantries, likely due to the more families, one adult primary care and mental organized structure of appointments at health management clinic, and one obstet- clinics. For example, at the two pediatric rics and gynecology clinic), and two of the care clinics serving low-income families eight current sites are food pantries. The (PR = 39%, 40%), clients have an assigned five sites where ENCompass is no longer time to meet with an ENCompass volunteer better interaction and transfer of resources community, enabling volunteers to pitch to more clients overall. Finally, client perceptions play a role in willingness to complete a consultation (i.e., if the client is in a rush to retrieve food items/other services offered by the site).

When comparing types of clinics, free clinics often have higher PRs than primary care clinics. Free clinics have likely had more time to interact with the community and establish a reputation, yielding higher trust. For example, ENCompass's two adult free clinics serving ethnic minority groups (PR = 90%, 51%) have a stronger relationship with the communities they interact with most. Both clinics have physicians who speak Arabic or Spanish, attempting to connect to the Arabic and Latinx communities, respectively. Instead of needing an interpreter, these providers communicate directly with patients, leading patients to trust the clinic as a whole, including additional service providers such as ENCompass volunteers.

In February 2021, the research team developed and distributed an IRB-approved evaluation survey to the eight current community site partners to ask site staff for their feedback on the ENCompass program. The survey included three Likert-scale questions where respondents provided ratings about the ENCompass program on a scale of 1-5 (1 = strongly disagree, 5 = strongly agree; a higher score on each item reflects a more favorable response). Respondents answered all three questions favorably: (1) whether ENCompass has improved the site's quality of care ($\bar{x} =$ 4.5 ± 0.5), (2) whether ENCompass has integrated well into the site's workflow (\bar{x} = 4.25 ± 0.43), and (3) whether the site would recommend ENCompass's services to other sites ($\bar{x} = 4.63 \pm 0.48$).

Clients

before or after meeting with their physician. eight current sites and pop-up events. A This structure, compared to the two food majority of consultations (658, 92%) were pantries where volunteers pitch to groups with clients who reported to live in the of clients in waiting rooms (PR = 11%, Greater Columbus Area (Franklin County and 12%), leads to increased client interaction. small parts of the surrounding six counties). Additionally, at clinics, the providers may ENCompass volunteers have served clients introduce ENCompass members to the client who reported living in 39 (87%) of the 45 before the ENCompass volunteer enters the zip codes within the Greater Columbus room. This brings greater legitimacy to the Area (Figure 4). ENCompass clients tend ENCompass volunteer and likely leads to to concentrate in the zip codes where the eight active community sites are located. to the client. Although PRs are lower at food ENCompass volunteers are able to reach pantries, they invite a greater portion of the Columbus's neediest neighborhoods, as is demonstrated by the 10 zip codes with the largest number of consultations being those with the highest number of emergency department visits (Community Health Needs Assessment Steering Committee, 2019) and those designated as high need by the Community Need Index (Dignity Health, n.d.; Roth & Barsi, 2005).

> As noted in Table 2, during ENCompass's 717 consultations, volunteers have been able to connect clients with more than 2,411 resources. The top five most commonly requested resources among clients were food (301 requests, 42% of clients), dental care (241, 34%), utilities assistance (237, 33%), housing/rent assistance (229, 32%), and clothing (198, 28%). Additionally, many clients have requested resources outside the program's typical scope, such as prenatal care (11, 2%) and tobacco/substance use support (10, 1%). Table 2 shows alignment of requested resources with available county-level statistics.

Volunteer Findings

Since 2012, ENCompass has had approximately 261 volunteers. To better understand the impacts of the ENCompass program on its volunteers, the ENCompass Research and Data Analytics Committee distributed an IRB-approved survey to ENCompass alumni using previously stored contact information. The survey asked respondents to share information about their undergraduate major(s) and professional outcomes (Figures 5a and 5b) and provided a text entry form for alumni to share their experiences with the ENCompass program. Among the 130 volunteers who were contacted, 40% completed the survey. For the open-ended question, three independent researchers reviewed each response and assigned a binary code representing the presence of From 2015 to 2019, ENCompass volunteers eight themes selected a priori based on the completed 717 client consultations at the structure of the interview questions and

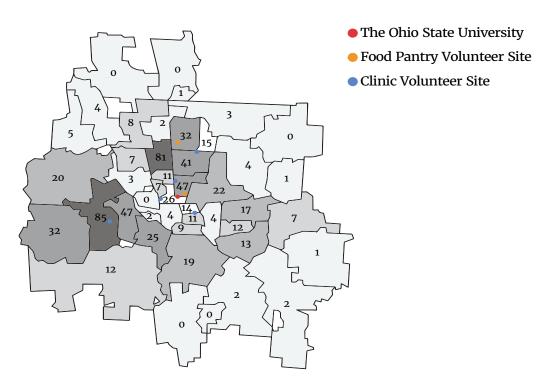


Figure 4. Volunteer Site Locations and Client Consultation Density

Note. This map was made using Tableau software. It shows the 45 zip codes of the Greater Columbus Area. The numbers in each zip code represent the number of client consultations that volunteers completed from 2015 to 2019, with corresponding darker shading indicating a greater number of client consultations completed with clients who reside in that zip code. Two clinic volunteer sites are housed in the same facility.

as Krippendorff's alphas ≥ 0.80 .

Although survey data show that interdisciplinary recruitment is indeed present in the ENCompass program, a large majority of volunteers came from the Colleges of Public Health, Medicine, and Arts & Sciences. A large percentage of responding members pursued fields within health care, with most individuals going on to complete medical or public health graduate degrees.

In the open-ended responses for particular themes, almost every respondent provided positive commentary regarding their experiences with ENCompass (Table 3). More than 60% of respondents shared that ENCompass was formative in shaping their career direction, and 40% discussed the knowledge they gained about the SDOH. Other common themes that emerged included skills gained, inspiration to work with underserved com-

preexisting knowledge of volunteer experi- munities, general positive comments about ences in the organization. The agreement the program, and feedback/recommended between coders was excellent, here defined improvements. Many participants with different career paths shared responses that covered multiple themes:

> ENCompass is the number one thing that has shaped my professional trajectory. Through ENCompass, I learned that I wanted to care for patients directly . . . while making systemic change at a community, public health, and policy level. I am passionate about caring for the underserved and ENCompass laid the foundation for my deep commitment to serve our neediest communities. Moreover, . . . I learned leadership skills that have allowed me to succeed in my future endeavors. I learned how to create a successful organizational structure, motivate/support my peers, create partnerships with other organizations, and so much more. Thanks

Table 2. Frequency of Client Requested Resources

Table 2. Frequency of Client Requested Resources				
Category	Resource	Frequency of request, N = 717	Alignment with Franklin County Statistics, 2019	
	Dental care	241 (34%)	30% of residents had not visited a dentist or dental clinic within the last year. 11% of adults age 19–64 and 5% of children age 3–18 could not access needed dental care.	
	Eye care	184 (26%)		
	Family doctor	138 (19%)		
Basic and supplemental health	Prescriptions	78 (11%)		
	Doctor for women's needs	67 (9%)	11% of pregnant residents had not had a health checkup in the past year.	
	Mental health	55 (8%)	22% of adult residents had been told they have a form of depression.	
	Insurance	44 (6%)	10% of residents did not have health insurance coverage.	
	Food	301 (42%)	17% of residents were food insecure. 14% of households used food stamps. 54% of households using food stamps had children under the age of 18 present.	
	Utilities assistance	237 (33%)		
Household needs	Housing/rent assistance	229 (32%)	32% of households had housing costs of at least 30% of their income.	
necus	Clothing	198 (28%)		
	Furniture	129 (18%)		
	Transportation	73 (10%)		
	After school programs	68 (9%)		
	Job resources	113 (16%)	4% annual average unemployment rate.	
Jobs and education	English classes	72 (10%)	13% of residents spoke a language other than English at home.	
	GED classes	51 (7%)	10% of residents over age 25 had not graduated from high school.	

Note. This table includes client resource requests from 2015 to 2019. Clients were able to request multiple resources that fit into multiple categories. Additional resources requested included child support/care (23, 3%), reading assistance (21, 3%), mammograms (15, 2%), translations (17, 2%), shelters (14, 2%), prenatal care (11, 2%), tobacco/substance abuse support (10, 1%), library programs (8, 1%), wound care supplies (7, 1%), and referral to Planned Parenthood (3, <1%). Franklin County statistics were gathered from the Franklin County HealthMap2019 (Community Health Needs Assessment Steering Committee, 2019). Blank cells represent an absence of applicable data in Franklin County HealthMap2019.

to ENCompass, I am . . . committed to caring for the underserved both through compassionate patient care and through being a leader in public health/advocacy. (Note: This quote has been edited to maintain confidentiality.)

ENCompass was easily the best experience I had in undergrad. Changed my life and definitely prepared me for a career in social work.

I enjoyed my time with the program. I helped create and run the PR committee which helped me develop new and diverse skills and played a role in me later pursuing a career in design.

Lessons Learned and Future Steps

Integration and Outcomes of Dual Mission

The ENCompass program was developed to bring together a multidisciplinary cohort of students who share a passion for addressing health disparities and to provide opportunities for these students to make an impact on the public health of their community. Through weekly volunteering, students have been able to connect local community members to resources that support social needs. These engagements have allowed students to develop their interpersonal and professional skills while also thinking critically and creatively about how to best address person-specific social needs. Weekly meetings provide students an outlet to reflect and discuss their volunteer expe-

Figure 5a. Volunteer Majors

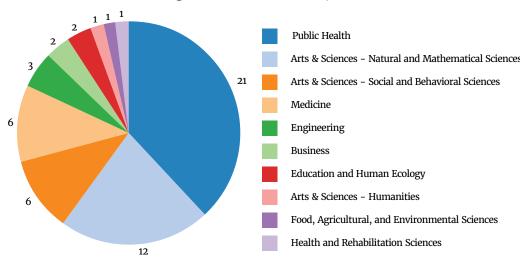


Figure 5b. Volunteer Career Paths

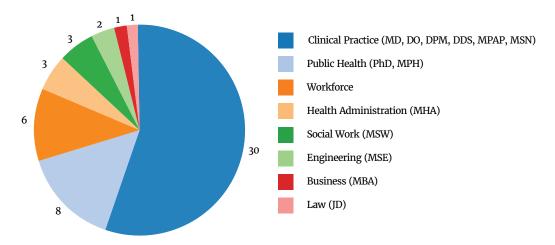


Table 3. ENCompass Volunteer Alumni Survey Themes

Theme	Definition	Frequency N = 40	Example
Career	ENCompass furthered career/education	23 (58%)	"ENCompass is the number one thing that has shaped my professional trajectory."
Knowledge	ENCompass provided public health or SDOH knowledge	16 (40%)	"ENCompass was the organization that introduced me to public health, a field I had never heard of until college."
Skills	ENCompass helped with skills (leadership, research, collaboration)	9 (23%)	"I learned leadership skills that have allowed me to succeed in my future endeavors."
Inspired orientation toward underserved	ENCompass inspired a career or experiences working with underserved populations	9 (23%)	"It [ENCompass] was the first time I realized I felt energized and inspired working one-on-one with people, especially those in a vulnerable part of their lives."
Organization growth	Proud to see the growth of ENCompass	7 (18%)	"I was one of the founding members of the organization [and] I am so so happy to see that all the good work we started is only growing!"
Collaboration	ENCompass provided the opportunity to collaborate with peers and/or advisors	7 (18%)	"Loved my time connecting with like-minded students [on] campus and the feeling of making a difference in the community we served."
Other positive	Response did not fit other categories, but ENCompass had a positive impact	7 (18%)	"ENCompass was my favorite undergraduate organization and I was very fortunate to be part of the team."
Feedback	Response gave negative feedback or commentary on ENCompass	6 (15%)	"I volunteered but only met with one or two people after a few hours. When I did follow-up calls it was hard to check with people if they had received what they needed or not."
Other	Response did not align with any other categories	1 (3%)	"It was a fairly new program when I was a volunteer. I don't have much to share."

Note. Respondents were able to share responses that fit into multiple categories.

on their undergraduate and future careers.

The initial years in piloting the ENCompass program have enabled volunteers to make an impact on their community; however, the program can be improved both internally and externally. Outlined below are some future directions the ENCompass program plans to take to better implement its mission.

Consultation Quality Improvement

ENCompass members to explore commuclients, including the use of virtual comresources.

Virtual Communication

The ENCompass model was created prior to the safety guidelines imposed during the novel coronavirus (COVID-19) pandemic. In autumn 2020, ENCompass students devised a tele-help model for the program, asking site directors to advertise the ENCompass phone number and have clients call this number if they need social service support. Although the in-person model likely allows for higher participation rates, a hybrid model could be used in the future to enable volunteers to work with clients both on site and off site via telecommunication. In the existing model, clients receive the ENCompass phone number; however, future models could ask that sites also keep the ENCompass contact information available on their websites and in person. Since ENCompass members visit the sites only on designated days and times, this increased access to contact information will enable the clients who enter the organizations on ENCompass "off-days" to contact Included below are some potential ideas for ENCompass and request services.

Follow-Up Communication and Direct Linkage to Resources

As previously discussed, ENCompass mem-

riences with the group, while also offering met and/or if there are further questions continued education on public health topics that could be addressed. The participation from experts in the field. Site staff overall rate for follow-up is quite low (12%). Over feel that ENCompass is beneficial to their time, ENCompass has experimented with organizations, and previous volunteers feel different follow-up methods, such as inthat ENCompass has left a positive impact person, phone calls, texts, and survey links. ENCompass volunteers have also tried conducting follow-ups during their scheduled shifts, at general body meetings, and on their own time. See the Client-Based SDOH Screenings and Documentation section for the most recently implemented follow-up method. Previous research has found that clients who have been adequately assisted in registering for and contacting the resource organizations often have better outcomes than those who are just provided with the contact information (Gottlieb et al., 2016). Weekly volunteering has enabled Future program models could ask volunteers to contact the community organizations nicating with clients and addressing client for the clients and/or help them register needs. In doing so, however, ENCompass for programs. For a more time-efficacious has also recognized that consultations can approach, volunteers could provide stepbe improved in a variety of ways to best help by-step instructions on how to register for/ contact certain social service organizations munication and directly linking clients to if the client has questions about doing so. In the future, ENCompass is interested in training volunteers to help clients register for government services such as Medicare/ Medicaid, SNAP benefits, and utility payment assistance. These additional services would remove a barrier for clients who need these resources but don't have the time and/ or computer access to sign up themselves. Learning the details about these assistance programs would also be beneficial for volunteers for their future careers. In implementing this change, ENCompass plans to continue collecting data about how many clients were able to be directly connected with resources, and also still include a follow-up that asks clients how this direct connection may have benefited them.

Volunteer Education Improvement

Through weekly presentations and discussions, ENCompass strives to keep its volunteers up to date on public health initiatives occurring in the local community while also providing a fundamental understanding of health disparities, health policy, and SDOH. how to (1) further develop this educational component and (2) introduce more perspectives into ENCompass programming.

Diversity and Advocacy Training

bers are asked to follow up with their clients By serving Columbus community members to check if the designated needs have been and learning about SDOH at general body (Castrucci & Auerbach, 2019). To promote is furthered as well. activism among its members, ENCompass plans to collaborate with organizations on campus and in the Columbus community that promote civic engagement. In the past, ENCompass partnered with OSU Votes, a student-led movement to register, educate, and encourage students to vote. Looking forward, ENCompass plans to partner with other activism groups on campus to explore additional ways to influence policymaking and social issues, such as contacting representatives, raising awareness on social media and through educational events, crowdfunding, creating community focus groups, and participating in public demonstrations.

Interdisciplinary Recruitment

At its founding in 2012, ENCompass members represented a variety of disciplines across campus. These students identified interdisciplinary collaboration as a key component of successful models that addressed nificant value to both Ohio State students SDOH. As the organization evolved, the and the Columbus community through academic disciplines of students grew more providing a meaningful service-learning homogeneous, with a majority of members opportunity for undergraduate students pursuing pre-health-care-related degrees that helps to address health disparities. (as shown in Figures 5a and 5b). This shift The organization was recognized by Ohio could be attributed to recruitment efforts State's Outstanding Student Organization through Ohio State's College of Public Health Award, has received sponsorship from and other outlets with a health-oriented au- Nationwide Children's Hospital, and was dience. Additionally, ENCompass's recruit- selected to present at a Clinton Global ment specifically looks for students with a Initiative annual meeting and Ohio State's passion for public health. Moving forward, Denman Undergraduate Research Forum. As ENCompass looks to reach students beyond an established student organization that is the traditional health-related fields to re- well-known by the university community, cruit an interdisciplinary group of students, ENCompass hopes to remain a sustainas envisioned by its founding members. able organization that continues to evolve

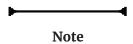
meetings, ENCompass members can attest a variety of academic backgrounds and skill to the systemic barriers that create social sets enhances ENCompass's ability to serve needs in the surrounding community. To the Columbus community. For instance, truly address the SDOH, ENCompass vol- committees like Information Technology unteers recognize the need to advocate for and Research and Data Analytics would benreform that brings about equity in all insti- efit from members with a strong background tutions of society. Researchers have iden- in computer science that is not always intified agency (working within the system cluded in premedicine, public health, or to improve health) and activism (reform- social work curriculums. Skill sets brought ing the system to improve health) as two by business or public affairs majors could subsets of health advocacy (Dobson et al., bring additional perspective to ENCompass's 2012). The current ENCompass model prac- Site Engagement and Public Relations and tices agency by addressing factors for poor Advocacy Committees. A multitude of fachealth by connecting Columbus residents tors influence health; therefore, members with social resources. However, ENCompass with a diverse array of skills and knowledge can improve its health advocacy work by are best equipped to address these factors. working more upstream to dismantle the As ENCompass extends its reach across a systemic inequities that inherently disfa- variety of disciplines at Ohio State, the provor ENCompass's population of interest gram's mission of awareness and activism

Community Advisory Board

ENCompass members have also discussed the possibility of developing a community advisory board in order to improve ENCompass's ability to serve its clients. So far, the development of the program has heavily relied on the expertise of the current faculty advisor and larger Faculty Advisory Board, composed of researchers and organization leaders with expertise within the fields of public health and social work and significant knowledge of and connections to local communities. Having additional engagement from the clients ENCompass serves could provide numerous benefits for the program's reach.

Closing Remarks, Recognition, and Call to Action

The ENCompass program has brought sig-Prioritizing the recruitment of students with each year. Through continuing to develop community partnerships, diversifying the nization has evolved in response to these volunteer pool, and actively educating vol- changes. Just as ENCompass was inspired unteers on the many factors that contribute by Health Leads, ENCompass hopes that this to health inequity, ENCompass plans to con- model can be used to inspire other universitinue growing and furthering its impact on ties to develop similar student organizations the Columbus community. Moreover, with focused on helping their local communities the many effects of the COVID-19 pandemic and developing student interest in public on social needs services, ENCompass hopes health. to, in the future, evaluate how the orga-



¹ Elizabeth L. Schwartz and Shreya Shaw share first authorship.

Acknowledgments

We acknowledge all past and present ENCompass volunteers for their dedication to serving the Columbus community and for contributing to the success of this awardwinning program. We acknowledge past volunteers Preethi Chidambaram, Elana Curry, Chris Gaw, and Annie Zhang for their insights on the early development of the organization. We acknowledge ENCompass's founding advisor Dr. Amy Acton, current advisor Dr. William Hayes, and the past and present Faculty Advisory Board (Dr. Diane Brogan-Habash, Dr. Macarius Donneyoung, Jerry Friedman, Dr. Leo Hoar, Dr. Randi Love, William Mitchin, Dr. Susan Moffatt-Bruce, Tanikka Price, and Dr. Lisa Raiz) for their support and guidance.

About the Authors

Elizabeth L. Schwartz is a MD/PhD student at the University of Minnesota Schools of Medicine and Public Health.

Shreya Shaw is a medical student at The Ohio State University College of Medicine.

Emma Bolkovac is an undergraduate student at The Ohio State University.

Divya Shankar is a medical student at The Ohio State University College of Medicine.

Shwetabh Tarun is a medical student at the University of Pittsburgh School of Medicine.

Claire Forrestal is a graduate student at The Ohio State University College of Public Health.

William D. Hayes is the director of health policy at The Ohio State University Wexner Medical Center and an adjunct assistant professor in The Ohio State University College of Public Health.

Lisa Raiz is an associate professor at The Ohio State University College of Social Work.

Diane L. Brogan-Habash is a clinical associate professor at The Ohio State University Department of Family & Community Medicine and the associate director of education at The Ohio State University Center of Integrative Health.

References

- Altekruse, S. F., Cosgrove, C. M., Altekruse, W. C., Jenkins, R. A., & Blanco, C. (2020). Socioeconomic risk factors for fatal opioid overdoses in the United States: Findings from the Mortality Disparities in American Communities Study (MDAC). Plos One, 15(1), Article e0227966. https://doi.org/10.1371/journal.pone.0227966
- Berkowitz, S. A., Hulberg, A. C., Standish, S., Reznor, G., & Atlas, S. J. (2017). Improving chronic cardiometabolic disease management by addressing basic resource needs: A pragmatic evaluation. JAMA Internal Medicine, 177(2), 244-252. https://doi.org/10.1001/ jamainternmed.2016.7691
- Byhoff, E., Garg, A., Pellicer, M., Diaz, Y., Yoon, G. H., Charns, M. P., & Drainoni, M.-L. (2019). Provider and staff feedback on screening for social and behavioral determinants of health for pediatric patients. The Journal of the American Board of Family Medicine, 32(3), 297-306. https://doi.org/10.3122/jabfm.2019.03.180276
- Castrucci, B., & Auerbach, J. (2019, January 16). Meeting individual social needs falls short of addressing social determinants of health. Health Affairs Blog. https://doi.org/10.1377/ forefront.20190115.234942
- CITI Program. (n.d.-a). Responsible Conduct of Research (RCR). https://about.citiprogram. org/en/series/responsible-conduct-of-research-rcr/
- CITI Program. (n.d.-b). Social-Behavioral-Educational (SBE) Basic. Retrieved March 31, 2021, from https://about.citiprogram.org/en/course/human-subjects-research-2/
- Cockerham, W. C., Hamby, B. W., & Oates, G. R. (2017). The social determinants of chronic disease. American Journal of Preventive Medicine, 52(1, Suppl. 1), S5-S12. https://doi. org/10.1016/j.amepre.2016.09.010
- Columbus Public Health. (2017). Community health assessment (CHA). https://www.columbus.gov/CommunityHealthAssessment/
- Community Health Needs Assessment Steering Committee. (2019). Franklin County HealthMap2019: Navigating our way to a healthier community together. https://centralohiohospitals.org/wp-content/uploads/2022/03/COHCHM2019 FINAL.pdf
- Dignity Health. (n.d.). CNI. Retrieved March 31, 2021, from http://cni.dignityhealth.org/
- Dobson, S., Voyer, S., & Regehr, G. (2012). Perspective: Agency and activism: Rethinking health advocacy in the medical profession. *Academic Medicine*, 87(9), 1161–1164. https:// doi.org/10.1097/ACM.obo13e3182621c25
- Eley, D. (2003). Perceptions of and reflections on volunteering: The impact of community service on citizenship in students. Voluntary Action: The Journal of the Institute for Volunteering Research, 5(3). https://www.bl.uk/collection-items/perceptions-of-andreflections-on-volunteering
- Garg, A., Toy, S., Tripodis, Y., Silverstein, M., & Freeman, E. (2015). Addressing social determinants of health at well child care visits: A cluster RCT. Pediatrics, 135(2), e296e304. https://doi.org/10.1542/peds.2014-2888
- Gottlieb, L. M., Hessler, D., Long, D., Laves, E., Burns, A. R., Amaya, A., Sweeney, P., Schudel, C., & Adler, N. E. (2016). Effects of social needs screening and in-person service navigation on child health: A randomized clinical trial. JAMA Pediatrics, 170(11), Article e162521. https://doi.org/10.1001/jamapediatrics.2016.2521
- Healthy People 2030. (n.d.-a). Reduce overdose deaths involving opioids—IVP-20. https:// health.gov/healthypeople/objectives-and-data/browse-objectives/injury-prevention/ reduce-overdose-deaths-involving-opioids-ivp-20
- Healthy People 2030. (n.d.-b). Reduce the rate of infant deaths—MICH-02. https://health.gov/ healthypeople/objectives-and-data/browse-objectives/infants/reduce-rate-infantdeaths-mich-02
- Mays, V. M., Ly, L., Allen, E., & Young, S. (2009). Engaging student health organizations in reducing health disparities in underserved communities through volunteerism: Developing a student health corps. Journal of Health Care for the Poor and Underserved, 20(3), 914-928. https://doi.org/10.1353/hpu.0.0190

- Ohio Department of Health. (2019). 2019 Ohio drug overdose data: General findings. https://odh.ohio.gov/wps/wcm/connect/gov/0a7bdcd9-b8d5-4193-a1af-e711be4ef541/2019_OhioDrugOverdoseReport_Final_11.06.20.pdf?MOD=AJPERES&CONVERT_TO=url&CACHEID=ROOTWORKSPACE.Z18_M1HGGIKON0JO00QO9DDDDM3000-0a7bdcd9-b8d5-4193-a1af-e711be4ef541-nmv3qSt
- Onie, R. (2012). What if our health care system kept us healthy? [Video]. TED Conferences. https://www.ted.com/talks/rebecca_onie_what_if_our_health_care_system_kept_us healthy
- O'Toole, T. P., Hanusa, B. H., Gibbon, J. L., & Boyles, S. H. (1999). Experiences and attitudes of residents and students influence voluntary service with homeless populations. *Journal of General Internal Medicine*, 14(4), 211–216. https://doi.org/10.1046/j.1525–1497.1999.00319.x
- Ramsey, A. H., Haq, C., Gjerde, C. L., & Rothenberg, D. (2004). Career influence of an international health experience during medical school. *Family Medicine*, 36(6), 412–416. https://www.stfm.org/fmhub/fm2004/June/Alan412.pdf
- Rogers, A. J., Hamity, C., Sharp, A. L., Jackson, A. H., & Schickedanz, A. B. (2020). Patients' attitudes and perceptions regarding social needs screening and navigation: Multi-site survey in a large integrated health system. *Journal of General Internal Medicine*, 35(5), 1389–1395. https://doi.org/10.1007/s11606-019-05588-1
- Roth, R., & Barsi, E. (2005). The community need index. A new tool pinpoints health care disparities in communities throughout the nation. *Health Progress (Saint Louis, Mo.)*, 86(4), 32–38.
- Schramm, G. (2016). The effects race and socioeconomic status have on infant mortality rates. Williams Honors College, Honors Research Projects. https://ideaexchange.uakron.edu/honors_research_projects/274
- U.S. Census Bureau. (n.d.). U.S. Census Bureau QuickFacts: Columbus City, Ohio. Retrieved March 31, 2021, from https://www.census.gov/quickfacts/fact/table/columbuscityohio/INC110219
- Weissman, J. S., Campbell, E. G., Gokhale, M., & Blumenthal, D. (2001). Residents' preferences and preparation for caring for underserved populations. *Journal of Urban Health*, 78(3), 535–549. https://doi.org/10.1093/jurban/78.3.535
- World Health Organization. (n.d.). *Social determinants of health*. https://www.who.int/health-topics/social-determinants-of-health#tab=tab 1

Appendix A. ENCompass Client Need Screening Form

Section 0: Information automatically collected about screening			
1. Date			
2. Time			
3. Volunteer conducting screening			
Section 1: Client demographic information*			
1. Is this a real client?	() Yes		
	() No		
2. Consent to service?	() Yes		
	() No		
3. Consent to research?	() Yes		
	() No		
4. Location of visit	Select from drop down list of all sites		
5. First Name			
6. Middle Name			
7. Last Name			
8. Gender	() Male		
	() Female		
9. Date of birth			
10. Age			
11. Primary language			
12. Street address			
13. Apartment/Suite			
14. City			
15. State			
16.Zip code			
17. Total number of individuals in household			
18. Number of adults in household			
19. Number of children in household			
20. Single parent household	() Yes		
	() No		
21. Housing status	() Rent		
	() Own home		
	() Live with family/others		
	() Homeless		
22. Do you have a cell phone?	() Yes		
	() No		
23. Cell phone number			
24. Do you have access to this cell phone for the next 3 months?	() Yes		
	() No		
25. Email address			

Continued on next page

Appendix A. Continued

26. Employment status	() Full time
	() Part time
	() Retired
	() Student
	() Contract/Consulting
	() Unemployed
27. Yearly household income (if unsure, put ?)	
28. Do you have any medical insurance or	() Yes
medical assistance?	() No
29. If yes, do you have Medicare or Medicaid?	() Medicare
	() Medicaid
	() MyCare (both)
30. If you have Medicaid, who is your provider?	() Buckeye Health Plan
	() CareSource
	() Molina
	() Paramount
	() UnitedHealthCare
	() Aetna
	() Other
	() I don't know
31. Do you have any other health care plans?	
32. Are you a veteran?	
33. Are you or anyone you live with handicapped or disabled?	
Section 2: Social needs screening*	
Basic health	[] Family doctor
	[] Dental care
	[] Eye care
	[] Prescriptions
Basic health: Elaborate on needs	
3. Supplemental health	[] Mental health
	[] Tobacco/substance abuse support
	[] Insurance
	[] Wound care supplies
4. Supplemental health: Elaborate on needs	
5. Household needs	[] Housing/rent assistance
	[] Shelters
	[] Utilities assistance
	[]Food
	[] Clothing
	[] Furniture
	[] Transportation

Appendix A. Continued

6. Household needs: Elaborate on needs	
7. Jobs/Education	[] Reading assistance
	[] GED classes
	[] ESL/ESOL classes
	[] Translations
	[] Job resources
	[] Library programs
8. Jobs/Education: Elaborate on needs	
9. Family services	[] School meals
	[] Child support/care
	[] Adult care
	[] Fatherhood programs
	[] After school programs
10. Family services: Elaborate on needs	
11. Women's/child health	[] Doctor for women's needs
	[] Pediatric/prenatal care
	[] Mammograms
	[] Planned Parenthood
12. Women's/child health: Elaborate on needs	
Section 3: Resource recommendations**	
Resource name	
2. Resource category	
3. Resource address	
Note: Questions 1–3 are repeated for each resource recommended.	
4. Status	() Client successfully given information
	() Client walked out without information
	() Client did not want information
5. Did you schedule a follow-up with the client?	() Yes
	() No, will be unable to contact client again (no phone)
	() No, client did not want a follow-up
	() No, other
6. Preferred method of contact for follow-up:	

Note. Parentheses refer to multiple choice answer choices. Square brackets refer to select all that apply answer choices.

^{*}Section for volunteer to complete with client.

^{**}Section for volunteer to complete without client, after compiling "social prescription"/resource packet.

Appendix B. ENCompass Client Follow-Up Survey

Section 1: Introduction			
Status of follow-up	() Completed		
	() Left message (1st time)		
	() Left message (2nd time)		
	() Did not answer (1st time)		
	() Did not answer (2nd time)		
	() Busy (Call back)		
	() Phone disconnected		
	() Texted (1st time)		
	() Texted (2nd time)		
	() Emailed (1st time)		
	() Emailed (2nd time)		
2. Did you use the resource(s) recommended to	() Yes, I used all of the resources		
you at your last visit?	() Yes, I used some of the resources		
	() No, I used none of the resources		
	() Refuse to answer		
	() I don't know		
	() Not applicable		
If you only used some of the resources, please explain why			
4. If no, why did you not use the resources?			
Section 2: Resources used			
What was the name of Resource 1 that you used?			
What service did Resource 1 provide for you/ your household?			
3. Was Resource 1 helpful?	() Yes		
	() No		
	() Refuse to answer		
	() I don't know		
	() Not applicable		
4. Would you recommend Resource 1 to a friend?	() Yes		
	() No		
	() Refuse to answer		
	() I don't know		
	() Not applicable		
5. Additional comments about Resource 1			
Note: Questions 1–5 are repeated for each resource used.			

Continued on next page

Appendix B. Continued

Section 3: Outside resources used				
Did you use any outside resource(s) not recom-	() Yes			
mended by an ENCompass volunteer since your last visit?	() No			
your lest risk!	() Refuse to answer			
	() I don't know			
	() Not applicable			
What was the name of Outside Resource 1 that you used?				
What service did Outside Resource 1 provide for you/your household?				
4. Was Outside Resource 1 helpful?	() Yes			
	() No			
	() Refuse to answer			
	() I don't know			
	() Not applicable			
5. Would you recommend Outside Resource 1 to a friend?	() Yes			
a meno?	() No			
	() Refuse to answer			
	() I don't know			
	() Not applicable			
6. Additional comments about Outside Resource 1				
Note: Questions 2–6 are repeated for each outside resource used.				
7. Did you schedule another follow-up?	() Yes, client requested			
	() Yes, unable to reach client			
	() No, client declined			
	() No, unable to reach client multiple times			