# **Using Experiential Education in Health Professions Training to Improve Health Equity: Lessons** Learned from Interviews With Key Informants

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# Abstract

Health professions students can increase their understanding of how social determinants impact health equity through experiential learning opportunities. Using key informant interviews with faculty and staff familiar with experiential education programs in medicine, dentistry, nursing, pharmacy, public health, and social work, we sought to identify key features and best practices to inform the broader implementation of these programs. Interviews were recorded and compiled notes were reviewed to identify common themes across programs. Experiential learning helped teach students competencies related to health equity. However, many programs were challenged by limited infrastructure and the need for faculty training on health equity topics. Key informants noted that programs should be linked to accreditation and curricular requirements. Strong community partnerships also facilitated successful program implementation. Our findings can help guide other schools considering experiential learning programs, as well as future research in this area.

Keywords: health professions, experiential education, service-learning, health equity



lations they serve (NASEM, 2016; Robert 2014; Siegel et al., 2018). Wood Johnson Foundation, 2017). Social determinants of health are the conditions Immersing health professions students in which people live, work, and play that through experiential learning opportunishape patterns of health. Health researchers ties can improve their understanding of point to social determinants of health as the how the social and physical environment underlying causes at the root of many per- influences health. Experiential learning is sistent health inequities in the United States a pedagogical approach that provides an (NASEM, 2017). Therefore, solutions to ad- opportunity to participate in a real-word dress health inequities at the population practice experience, reflect on that experilevel must go beyond the traditional health ence, develop new knowledge as a result of care delivery system. Increasingly, health the experience, and apply that knowledge in professions' accrediting bodies are requir- new settings (Kolb, 1984). Examples include ing this content in their curricula; however, courses that incorporate community service, there is wide variation in satisfying such or opportunities to practice skills in clinirequirements (Chen et al., 2021; Davis et al., cal or community environments (such as 2021; Dunleavy et al., 2022; NASEM, 2016). field assignments or practica; Gimpel et al.,

here have been increasing calls for Understanding the role of social determihealth professionals to better un- nants is especially important for those in derstand the role of social deter- clinical professions in order to understand minants of health in shaping the the limitations of the health care system in health of the patients and popu- addressing health equity (Metzl & Hansen,

from the classroom to the workplace, longer implementation of these programs. term knowledge retention, and improved skills acquisition (DeHaven et al., 2020). An important component of experiential education is the role of community-academic We conducted in-depth interviews with experience working with populations exto the larger social issues present in communities, but are also addressing community needs and potentially increasing community capacity, which is an important goal of service-learning (Seifer, 1998).

In 2016, the National Academies of Science, Engineering, and Medicine published a report highlighting the importance of experiential education in training health profes- We aimed to interview at least two key sionals on health equity (NASEM, 2016). The informants in each health profession and report noted the need for further research on continue interviews until we reached thehow these programs are implemented and matic saturation (Guest et al., 2006). Key whether they are responsive to the evolving informants were identified in several ways. needs of local communities. Although many First, we reviewed program websites of health professions schools have been offer- highly ranked health professions schools to ing experiential education opportunities for identify faculty and staff leading experienyears, little guidance exists on how best to tial education programs (U.S. News & World implement these programs. Even 6 years Report, 2021). Second, we identified authors following the NASEM report, only a handful of peer-reviewed articles that described of studies have focused on what types are experiential education programs for health most effective in training students, which professions students (DeHaven et al., 2011; components have the biggest impact on Gimpel et al., 2018; Thompson et al., 2013; the community, and how to make these Tiwari & Palatta, 2019). Third, the research programs sustainable long-term (Chen et team identified faculty and program staff al., 2021; Davis et al., 2021; Dunleavy et al., with content expertise related to experien-2022). Because these programs often require tial education programs through our own an institutional investment, more evidence professional networks and academic affiliregarding their feasibility and efficacy could ations. We also asked our interviewees to support decision making among leaders in identify other key informants with expertise higher education.

We drew on the Consolidated Framework for Implementation Research (CFIR) to examine how experiential education has been used specifically to teach social determinants Using keywords such as "experiential eduof health content to health professions cation" and "service learning" with specific students (Damschroder et al., 2009). This health professions to search PubMed, we framework suggests that the implemen- identified peer-reviewed papers on experi-

2018). Most programs that have been evalu- tation of experiential education programs ated have been in medicine, nursing, and can be influenced by both characteristics of pharmacy (Chen et al., 2021; DeHaven et al., the program and external factors, such as 2020; Gimpel et al., 2018). Commonly used institutional or community support. Using models include service-learning (group or key informant interviews with faculty and individual community service paired with staff familiar with experiential education didactic sessions), practicums (individual programs, this exploratory study sought fieldwork with a culminating report or re- to highlight the key features of programs flections), and clinical service opportuni- being implemented in health professions ties (not paired with a course or didactic training, as well as identify best practices sessions). Benefits of experiential learning and gaps in current models that could be include student preparation to transition addressed in future research and broader

#### Methods

partnerships where students gain firsthand key informants to better understand how experiential education was being used to periencing health inequities. Through the teach social determinants of health. We partnership, students are not only exposed compared experiential education programs across six major health professions: nursing, medicine, dentistry, pharmacy, social work, and public health. The study protocol was reviewed and approved by the institutional review board (IRB) at the University of Washington.

## **Study Participants**

in experiential education in the health professions.

#### **Data Collection**

relevant expertise on the topic but were not shared the perspective. currently implementing an experiential education program. Both interview guides included questions about the program model, faculty and staff involvement, program de- In this section we summarize the charvelopment, student assessment, implemenand sustainability. We used follow-up quesresponses by participants.

Recruitment began in January 2020 and continued through April 2020. Each week, we reviewed the recruitment goals in order to determine targeted recruitment for the We interviewed 14 faculty and staff at 10 next week. We approached 33 potential par- different universities within each of the ticipants via email, with up to three follow- health professions: medicine (2), denup emails, as well as a phone call where tistry (2), nursing (3), pharmacy (1), public numbers were available. Interviews were health (4), and social work (2). They inconducted by two trained members of the cluded participants at both public and priresearch team via Zoom and lasted 30–60 vate institutions located across the United minutes. Interviewers took notes during the States, including the states of Colorado, interviews and used recordings to construct Georgia, Hawaii, Illinois, Maine, Maryland, more detailed notes. All but one participant Massachusetts, Texas, and Washington. gave consent to have their interview vid- Most were large research-intensive univereorecorded.

#### **Data Analysis**

The research team used the CFIR and the interview guide to organize interview notes, which were then reviewed to identify practicums (individual fieldwork with a themes across experiential education programs. Themes and example quotes were cal service opportunities (not paired with shared with others on the research team for a course or didactic sessions). See Table 1 assistance with interpretation. Reviewing for examples of programs in each health our notes throughout the process, our team profession. Most programs were delivered achieved thematic saturation after complet- during the academic school year, with one ing 14 interviews (42% of those contacted). being conducted during the summer. About Saturation was defined as having repre- half of the programs had set minimum time sentation from all six health professions, commitments for providing service (these as well as receiving consistent and similar ranged from 6 to 240 hours); the rest did answers from respondents (Guest et al., not mention specific commitments. These 2006). Program features were summarized requirements also depended on whether the to describe different program types, how program was a required component of the programs were integrated with other parts curriculum. Half the experiential education of the curricula, the process for assessing programs (which included all five public competencies, and personnel and fiscal health and social work programs) were

ential evaluation programs. Building from supports. In order to identify challenges the literature, the CFIR was used to identify and successes experienced during experihypothesized factors that might influence ential education program implementation, the implementation of experiential educa- study team members compiled participant tion programs, such as cost, external poli- responses to each study question in order cies, processes for incorporating feedback to conduct content analysis and identify and evaluation, and key stakeholders. We common themes within responses to each developed two versions of the interview question. We used descriptors such as guide (see Appendix A), one for those who "many" or "most" when more than half had experience implementing a specific the respondents shared a similar perspecprogram and another for those who had tive and "some" or "few" if less than half

#### Results

acteristics of the programs described by tation challenges, lessons learned, the role participants, including the competencies of community partners, program funding, and how they were assessed. After this we describe lessons learned from implementing tions and prompts to elicit more detailed programs and recommendations for other institutions interested in developing similar programs.

#### **Program Design and Competencies**

sities. We did not observe any differences in programs by region or institution type. Most programs used a service-learning (group or individual community service paired with didactic sessions) model of experiential education. Other common models were culminating report or reflections) and clinirequired as part of accreditation, and the of health, equity, social justice, barriers to other half were not.

Implementation infrastructure varied across programs. Most programs were supported Programs assessed performance and inby no more than two faculty and/or staff creased competency through classwork members and occasionally a student teach- and assignments. The most common class ing assistant. One program was run entirely assignments were reflective writing about by faculty and staff who volunteered their their experiences, followed by group distime. Although most faculty and staff de- cussion, poster presentations, and written veloped and managed their programs in- papers. Two programs conducted pre-post dependently, one program had an entire surveys to assess student progress over office, including dedicated staff, to admin- the course of the semester or year. Two ister experiential education programs and programs had no class assignments or train faculty to implement these programs requirements. Only two programs tracked across health professions schools. In most their students after graduation to see if cases, salaries for the employees imple- participation in experiential education and menting the programs were covered by the knowledge about social determinants of university. However, costs such as supplies, health had an impact on their later careers, incentives, and student stipends came from even though experiential education was not grants and private donors.

Key informants noted that experiential education programs were being used to teach a number of different competencies. Appendix B summarizes competencies that are related to social determinants of health and health equity in each of the health professions. Most common competencies were related to skills for working with individual patients, such as bias awareness, building trust, reflective listening, cultural humility, power dynamics, and shared decision-making. Key informants shared many challenges and Other knowledge and skills competencies lessons learned. We grouped these chalwere related to furthering health equity, lenges into three categories: issues related such as advocacy, social and political fac- to working with faculty, students, and comtors contributing to social determinants munity partners.

health care, health promotion, interprofessionalism, and privilege.

an accreditation requirement. Programs relied largely on anecdotal feedback from students for program evaluation. Those that did follow their students said that the program had positively influenced their career decisions, often resulting in choosing to work with low-income or vulnerable populations.

## Lessons Learned From Implementing **These Programs**

Tab	le 1. Example Models of Experiential Education Being Used to Teach Health Equity
Profession	Program Description
Dentistry	Elective course called "Health and Homelessness" where students perform clinical outreach with homeless patients
Pharmacy	Work with local health department to provide immunizations at homeless camps, recovery centers, and community centers
Medicine	Elective, interprofessional community health project that provides foot care clinics at homeless shelters
Public health	Applied practice experience that takes public health students to different parts of the city using public transportation to learn about historically low-income neighborhoods
Nursing/ interprofessional	Service-learning program where students and faculty go to farms and provide care for migrant farmworkers
Social work	Interprofessional, collaborative practicum where students develop and deliver health-related workshops for inmates in a local jail

# Faculty

Respondents cited two key challenges related to faculty involvement in experiential learning opportunities. The first was the need for orienting and training faculty on this type of teaching, particularly among schools of public health. This included the need for training on social determinants of health and how to manage classroom dynamics when health equity issues were discussed. One respondent noticed that some faculty had limited capacity to facilitate student conversations about health equity and lead critical reflections among students. As one respondent noted,

Best practices are finding very intentional ways to center these conversations around power and privilege, and the context. Some of our faculty have different levels of comfort. Some come in from training spaces where they feel prepared, but they need more tools in their toolbox, but that population is minute compared to the larger population of our faculty. (Staff, public health)

The lack of faculty training negatively impacted students' experience. For example, one respondent noted faculty committing microaggressions, such as calling upon students of color to offer perspectives on health issues faced by people of their same race or ethnicity. In another case, respondents noted faculty choosing movies and other course materials without considering the impact on students who came from those communities. For example, one respondent described,

We also piloted watching 13th Amendment, and then leading a reflection, which failed greatly during the first semester...We got mixed reviews from students. Students [of color] felt like this was really important, but that their clinical instructors were not prepared to facilitate the type of conversation that needed to happen or it was traumatizing and triggering for these students, to be in a room of predominantly folks who did not look like them and didn't understand their connection to this film. (Staff, public health)

specific training on experiential education pedagogy. Only three respondents were aware of the NASEM report laying out specific recommendations for these types of programs, though many were interested in reading it.

Another challenge was identifying enough faculty to fully support experiential education programs. Most programs had no more than two faculty actively involved in implementing or managing the program. Almost all of the programs depended to some extent on faculty volunteering their time to teach, mentor, or supervise educational experiences. This challenge included identifying faculty or other clinicians to serve as preceptors, who are needed to supervise students providing clinical services. Fewer programs noted that it was difficult to recruit preceptors due to their competing demands and the inability to offer support or funding for their time. Programs instead relied on former students and committed community partners to staff these positions.

# Students

Respondents noted several challenges related to student engagement in experiential education, both in and out of the classroom. Some faculty and staff felt that students were using experiential learning opportunities to indicate that they had experience working with diverse communities, rather than having a genuine interest in gaining new knowledge or improving their skills. As one respondent (a faculty member in public health) said, "We aren't just there so students can check a box and say, 'Oh, I volunteered and I did this thing.'"

For those programs that were optional, respondents mentioned that the students who chose to engage were often those already familiar with concepts of social determinants of health and health equity, rather than the students who might have less familiarity and could benefit more from this type of experience. Respondents also commented that some students had the privilege of being able to spend time outside class on experiential education programs, although other students had work obligations that left them little to no time to participate.

Students enrolled in experiential education programs had varying degrees of previous experience working with diverse communities or providing clinical services. Some respondents noted the need for classroom

Respondents also noted the need for more respondents noted the need for classroom

experiences that prepared students to work stages of developing and implementing the in diverse community or clinical settings for program. As one respondent noted, the first time. As one respondent described,

It's the way you build trust. All of our [pharmacy] programs require extensive training before going out into the community...We already have classroom, and laboratory, and then refresher courses before we go out. Not only on how to do clinical things; there's reflective listening, and shared decision making, and culture humbleness conversations before we would embark. I think, to me, those are the best spent hours in advance...One of the reasons we want students to have this experience in their first year is because sometimes we've found that students who went out and started doing internships picked up cultural biases that students thought were normal. So, we try to normalize grassroots engagement in the community before students establish a cultural norm that we don't think really promotes equity. (Faculty, pharmacy)

and accountability, which are not typically most successful when built on personal repharmacy students, also required extensive relationships with community partners, training on equipment and coordination of care with usual providers. Providing orientation or training for students before they went "into the field" also helped ensure more positive and respectful relationships between students and community partners. As noted above, student learning was rarely formally assessed as part of the program, making it difficult to evaluate changes in Respondents noted the importance of ensurstudent knowledge, skills, and attitudes.

#### **Community Partners**

Several respondents noted that having a strong relationship with community partners was essential to implementing a successful program. Specifically, they noted that it was important to take the time to engage community partners at various Participants were also asked what they

We established solid connections with community partnerships over time. So then the projects became long-term projects. I felt that I had a responsibility to respond to the community partners...We don't go to community organizations to do whatever we want to do for research...It's done together. Sustainability is through having a continuous learning partnership. (Faculty, medicine)

Most programs did not have formal processes for soliciting feedback from community partners, but all felt it was important to do so. Many respondents also noted the importance of providing financial incentives to community partners for hosting or facilitating opportunities for students. They acknowledged that some burdens on community partners—identifying site supervisors, providing community space for students, attending planning meetings—often went uncompensated. A few programs were able to offer incentives to community partners, but most did not. Other challenges that These classroom experiences could include were noted were related to the disruptions an emphasis on the student role being to caused by students' physical presence and serve the community, not the other way their inappropriate or disrespectful behavior around. Another respondent noted the toward community members. Relationships importance of concepts such as humility with community partners appeared to be taught elsewhere in school curricula but lationships with individual faculty, because are critical for preparing students for field of the community partners' personal level experiences. Some programs, particularly of trust in the individual. As one respondent clinical practice for medical, dental, and described how they identify and maintain

> Our faculty are relatively wellconnected in the area, so relying on them for introductions...Also trying to find ways to give back and support that relationship, I think. (Staff, public health)

ing that community partners benefit from the partnership with an academic institution rather than be subject to a one-directional relationship as has been historically the case.

#### **Recommendations for Those Looking to** Implement Similar Programs

or if they had recommendations for others six major health professions. Most were responses fell into two categories: (1) ad- students providing clinical services in comditional content to include in the program munity settings. Experiential learning was In terms of content changes, some programs content and competencies related to health one program noted that after providing foot were also shaped by requirements tied to to address the root causes leading to homelessness. Another program noted the need for dental students to become more involved Our findings highlighted the need for in the health policy process in order to in- health professions schools to invest more to support experiential education opportuoutside the United States. Another program schools noted similar challenges in implesaw the benefit of having students from mentation and sustainability (Hood, 2009). different health professions participate in Our findings are also consistent with recexperiential education together, and wanted ommendations noted in the NASEM (2016) interprofessional education competencies support for faculty who lead experiential edrequired by accrediting bodies.

In terms of structural changes, many noted the need to improve the sustainability of their programs. Respondents noted the need for longer term opportunities for students, to enhance the reciprocity of community partnerships and deepen student learning. Others noted the need for more infrastructure to support their program, such as dedicated core funding, and employing staff to maintain community relationships and better serve student needs. One program was looking to further engage its alumni to serve as preceptors and donate funds. These needs did not differ across profession or type of institution. Given that these programs are often offered as an optional part of the curriculum, many respondents commented that experiential education should be required for all students. Lastly, one program was looking for ways to bring community members into the classroom to increase student exposure to community perspectives, especially for students who do not opt in to experiential learning opportunities.

#### Discussion

would like to change about their program minants of health and health equity across implementing similar programs. Their using service-learning models or involved and (2) structural changes to the program. seen as an appropriate way to teach students mentioned that students needed opportuni- equity. However, many programs struggled ties to learn advocacy skills, not just clini- with limited infrastructure and saw the need cal or interpersonal skills, to truly address for further faculty training on health equity social determinants of health. For example, topics. Programs and student participation care to residents in a homeless shelter week accreditation. Below, we discuss differences after week, they saw a need to do more to try across professions and directions for future practice and research.

crease access to dental care. In addition to infrastructure into experiential learning advocacy, some noted that they would like programs, including increased funding and faculty and staff support. A recent review of nities for students in international settings service-learning programs offered in dental to explore using this approach to achieve report, which cited the need for training and ucation programs. Respondents in our study highlighted the need for faculty training on issues of equity, diversity, and inclusion. Demand for such support has also become more visible in health professions schools as faculty and students have begun to speak out against institutional cultures that allow microaggressions, implicit bias, and discrimination (Doll & Thomas, 2020; Issaka, 2020; Iwai, 2020; Yousif et al., 2020). In addition to faculty training, schools can support and incentivize faculty to develop and implement experiential education programs with salary coverage or other financial resources. These programs could be funded through internal course development funds, or grants offered through federal agencies, such as NIH and HRSA, that support health workforce development. Health professions school leadership should also clearly articulate the value of these programs to both students and local communities. They can explicitly signal this value to faculty by adding experiential education programs to promotion and tenure criteria and/or curricular requirements. Faculty could also be encouraged to publish curricula, case studies, or evaluations of their programs as evidence of their scholarship.

Our study identified examples of experiential Many health professions schools have learning programs focused on social deter- begun grappling with larger issues of

(Njoku & Wakeel, 2019). Our findings high- eventually work in or encourage participresent an opportunity for health profes- shaping the curricula of health professions. power and privilege by sending White learning to encourage this type of training. middle- or upper-class students to engage with low-income clients and communities of color without the background and skills recruitment strategies focused on larger, needed to understand social determinants more well-recognized health professions of health in these communities (Taboada, 2011). Experiential education programs should intentionally develop a pedagogical approach and curriculum that directly with some overrepresentation of public address institutional racism and its role in health and underrepresentation of pharmaperpetuating health inequities. Several other cy. Our findings may not reflect the experitechniques are being used to teach health ences of all health professions, given that equity in health professions schools, such as some fields, including physical therapists digital story projects, community outreach, community health promotion events, and not included. Future studies should further simulations that focus on understanding the examine differences across professions and lived experience of low-income populations institution types. Our recruitment and data (Bill & Casola, 2016; Hackett & Humayun, collection occurred in early spring 2020, as 2018; Palombi et al., 2017; Thompson et al., 2020). Some of these approaches were also response to the coronavirus pandemic. The mentioned by respondents in our study as competing demands of faculty and staff may being successful parts of experiential learn- have led to fewer responses from potential ing programs (Bill & Casola, 2016; Palombi participants. This time was also marked by et al., 2017; Thompson et al., 2020). These a heightened focus on racism within the approaches speak to the important role of United States and within academic institucommunity engagement in helping students tions, which may have led participants to understand and address social determinants focus more on equity implications of their of health.

professions that were tied to accreditation considering experiential learning prorequirements. All health professions had grams, as well as future research in this at least one competency specified by their area. Faculty should be encouraged to esaccrediting body related to working with di- tablish long-term reciprocal relationships verse populations; however, only three pro- with community partners that can serve as fessions (medicine, dentistry, nursing) had sites for experiential learning programs. In competencies that specifically reflected the addition, faculty could mentor students on need to understand health inequities and how to develop collaborative partnerships so social determinants of health. In addition, that they could develop and/or participate all professions except dentistry encouraged in similar programs later in their careers. some form of practical learning experience Health professions schools with innovaas part of their competencies. In our study, tive and successful experiential education those schools with specific accreditation re- programs should be encouraged to publish quirements related to experiential learning their curricula and evaluation outcomes. also required their students to participate in Both our study and previous studies inditheir programs. Some respondents also felt cate that few programs have evaluated the that in order for students to learn how to impact of experiential learning programs truly address social determinants of health, on either students or the communities programs may need a stronger focus on ad- they serve (DeHaven et al., 2011; Rohra vocacy skills. For example, programs might et al., 2014). Still, there is evidence that

how to address health equity and racism highlight ways students can make changes in their school culture and/or curriculum to the health care institutions they will lighted how these issues are also present pation in the political process. Accrediting in experiential learning programs, and bodies have an important role to play in sions schools to address power imbalances Health professions schools may want to among faculty, students, and community advocate for changes to their accreditation members. Previous research has critiqued requirements to incorporate competencies service-learning models that reinforce related to health equity and experiential

> Our study had some limitations. Because our schools, our findings may not reflect programs at smaller schools. Furthermore, we focused on six major health professions, and emergency medical technicians, were the country was beginning to shut down in work during the interviews.

We noted key differences across health Our findings can help guide other schools

are highly valued by students and result in programs. Many of the skills students learn more positive attitudes about working in via experiential programs are precisely underserved communities (Pau & Mutalik, those that are needed for leadership roles 2017; Rohra et al., 2014). Future studies can throughout their careers. As academic proprovide guidance on how these programs grams strive to increase representation by influence student competencies long term, students from historically marginalized as well as their impact on community communities, experiential learning prohealth. Programs focused on social deter- grams need to evolve from the experiences minants of health and health equity should of these students, so that they become emalso consider using the framework laid out powered leaders in their own communities. in the NASEM (2016) report to guide both For these programs to be successful, they development and evaluation.

#### Conclusion

Our interviews with faculty and staff suggest that experiential education programs are a promising strategy for increasing health professions students' competency in social determinants of health and health equity. These programs are notable examples of community-academic partnerships that strengthen both the communities they

community-based educational experiences serve and the training offered by academic need to be supported by the appropriate infrastructure, faculty with the appropriate expertise to teach and mentor students, and sustained community partnerships. Ongoing and systematic evaluation of these programs is necessary to ensure that experiential education programs support students in meeting established competencies, and more importantly, improving the health of the communities in which they work.



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# Appendix A. Interview Guide

# Key Informant/Institution Background

First, I want to ask you some questions about yourself and your institution/program.

- 1. Where do you work and what is your role?
- 2. How do you define "experiential learning"? What words/phrases do you use to describe these types of programs?
- 3. What experiential education models is your program/profession/institution using?

# **Program Information**

Next, I want to ask you some questions about the specific [term they use to describe their program] program at your institution/department. [For experts: Next, I want to ask you some questions about the program models you support.]

4. Tell me about the specific program you lead.

Probe for:

- Years implemented
- Number of students served
- · Faculty and staff involvement
- Resources required

# Development

5. Can you tell me more about how the program was developed? [*For experts*: Do you have a sense of how the program was developed?]

Probes:

- Who was involved? What kind of initial support did they have?
- Why did they decide to begin the program?
- Who provided input on the program development (students, community partners, faculty)?
- 6. What competencies are taught and assessed through your program? [*For experts*: Do you know if any of these models address competencies related to social determinants of health or health equity? If so, how?]

Probe:

• Are any of the competencies related to social determinants of health or health equity?

Now, we're going to talk about implementing the program.

7. What have you learned from implementing the programs? [*For experts*: What do you think the lessons learned are from implementing these types of programs?]

Probes:

- What are the best practices for running this type of program?
- Are there things you make sure to do every time?
- 8. What have been the major challenges in implementing your program? [For *experts*: What do you think the major challenges are, implementing these types of programs?]
- 9. How do you assess student outcomes or community impact in your program? How do those assessments relate to the competencies on social determinants of health? [*For experts*: How do you think students' outcomes or community impact are assessed in these programs?]
- 10. What is the role of the preceptor/supervisor/community partner and what kind of commitment is required of them?

Probes:

- Do you get feedback from community partners on the program?
- Has the program been modified based on that feedback?
- How many community sites do you engage with? How were they recruited? Has there been any turnover in community sites?
- 11. How does the program fit into the larger curriculum (related coursework/pre-requisites)?
- 12. What kind of students participate in the program? Do you get feedback from students on their experiences? Has the program been modified based on that feedback? [*For experts*: How involved are students in the model development or implementation?]
- 13. How is the program funded? What are the major costs for the program? [For *experts*: Do you know how these models are funded?]
- 14. How has it been sustained over time? What changes have been made since the program was first implemented? [*For experts*: Do you know how these models are sustained over time?]
- 15. Do you think the program has been effective in ensuring students have learned to recognize and appropriately address issues of cultural competency/social determinants of health/disparities in health status/implicit bias? [*For experts*: Do you think these models have been effective in ensuring students have learned to recognize and appropriately address issues of cultural competency/ social determinants of health/disparities in health status/implicit bias?]

# What Does the Field Need?

Lastly, I'd like to ask you about what you think about these programs more broadly, outside your institution.

- 16. What would students in your profession benefit from that isn't currently being done?
- 17. Are you aware of any model programs? Have you seen things done elsewhere that you would want to try?
- 18. Which skills/competencies do you think are best taught through experiential learning?
- 19. Are you aware of the National Academies report and recommendations regarding teaching health professional students social determinants of health through experiential education?

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	Table 2. Exp	periential and Health Equity Accre	Table 2. Experiential and Health Equity Accreditation Requirements by Profession
Profession	Accrediting body	Experiential education requirement	Health equity requirement
Medical	Liaison Committee on Medical Education (LCME, 2021)	<b>Standard 6: Competencies, Curricular</b> <b>Objectives, and Curricular Design</b> <i>6.6. Service-Learning</i> The faculty of a medical school ensure that the medical education program provides sufficient opportunities for, encourages, and supports medical student participation in service-learning and/or community service activities.	<ul> <li>Standard 7: Curricular Content</li> <li>7.6. Cultural Competence and Health Care Disparities</li> <li>7.6. Cultural Competence and Health Care Disparities</li> <li>The faculty of a medical school ensure that the medical curriculum provides opportunities for medical students to learn to recognize and appropriately address biases in themselves, in others, and in the health care delivery process. The medical curriculum includes content regarding the following: <ul> <li>The diverse manner in which people perceive health and illness and respond to various symptoms, diseases, and treatments</li> <li>The basic principles of culturally competent health care dispondations and potential methods to eliminate health care disparities</li> <li>The knowledge, skills, and core professional attributes needed to provide effective care in a multidimensional and diverse society</li> </ul> </li> </ul>
	Accreditation Council for Graduate Medical Education (ACGME, 2018)	IV.B. ACGME Competencies IV.B. ACGME Competencies IV.B.1.d) Practice-based Learning and Improvement Residents/Fellows must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning.	<b>IV.B. ACGME Competencies</b> <i>IV.B.1.f) Systems-based Practice</i> <i>Residents/Fellows must demonstrate an awareness of and</i> <i>responsiveness to the larger context and system of health, care,</i> <i>including the social determinants of health, as well as the ability to call</i> <i>effectively on other resources to provide optimal health care.</i>
			Table continues on next page.

Using Experiential Education in Health Professions Training to Improve Health Equity

		Table 2. Continued	ned
Profession	Accrediting body	Experiential education requirement	Health equity requirement
Dental	Commission on Dental Accreditation (CODA, 2021)	<b>Clinical Sciences</b> 2-26. Dental education programs must make available opportunities and encourage students to engage in service learning experiences and/or community-based learning experiences. Intent: Service learning experiences and/or community-based learning experiences are essential to the development of a culturally competent oral health care workforce. The development of a culturally competent oral health care workforce. The development of a culturally competent oral learning experience and engenders a life-long appreciation for the value of community service.	<ul> <li>Behavioral Sciences</li> <li>2-17. Graduates must be competent in managing a diverse patient population and have the interpersonal and communications skills to function successfully in a multicultural work environment.</li> <li>Intent: Students should learn about factors and practices associated with disparities in health status among subpopulations, including but not limited to, racial, ethnic, geographic, or socioeconomic groups. In this manner, students will be best prepared for dental practice in a diverse society when they learn in an environment characterized by, and supportive of, diversity and inclusion. Such an environment should facilitate dental education in:</li> <li>basic principles of culturally competent health care;</li> <li>recognition of health care disparities and the development of solutions;</li> <li>the importance of meeting the health care needs of dentally underserved populations, and;</li> <li>the development of core professional attributes, such as altruism, empathy, and social accountability, needed to provide effective care in a multi-dimensionally diverse society</li> </ul>
	American Dental Education Association (ADEA, 2008)	Not mentioned.	<b>Communication and Interpersonal Skills</b> 3.3. Communicate effectively with individuals from diverse populations. <b>Health Promotion</b> 4.3. Recognize and appreciate the need to contribute to the improvement of oral health beyond those served in traditional practice settings.
			Table continues on next page.

panu	Health equity requirement	Not mentioned. Table continues on next page.
Table 2. Continued	Experiential education requirement	<ul> <li>Standard III: Program Quality— Curriculum and Teaching-Learning Practices</li> <li>III-G. Teaching-learning practices: <ul> <li>support the achievement of expected student outcomes;</li> <li>consider the needs and expectations of the identified community of in- terest; and</li> <li>expose students to individuals with diverse life experiences, perspectives, and backgrounds.</li> </ul> </li> <li>Elaboration: Teaching-learning practices (e.g., virtual, classroom, clinical experiences, distance education, laboratory) support achievement of expected student outcomes identified in course, unit, and/or level objectives.</li> <li>APRN certificate program), consider the needs of the program - identified community of interest, and broaden student perspectives.</li> </ul>
	Accrediting body	Commission on Collegiate Nursing Education (CCNE, 2018)
	Profession	Nursing

		Table 2. Continued	nued
Profession	Accrediting body	Experiential education requirement	Health equity requirement
Nursing	Council on Accreditation of Nurse Anesthesia Educational Programs (COA, 2019)	Not mentioned.	Standard III: Program of Study C21. The program demonstrates that graduates have acquired knowledge, skills and competencies in patient safety, perianesthetic management, critical thinking, communication, and the competencies needed to fulfill their professional responsibility.b.9. Individualized perianesthetic management is demonstrated by the ability of the graduate to deliver culturally competent perianesthetic care throughout the anesthesia experience.
	Accreditation Commission for Midwifery Education (ACME, 2019)	Not mentioned.	<b>Criterion IV: Curriculum</b> <i>M. The midwifery program provides content throughout the curriculum about implicit bias and health disparities related to race, gender, age, sexual orientation, disability, nationality, and religion.</i> The American College of Nurse–Midwives (ACNM) is committed to eliminating racism and racial bias in the midwifery profession and race-based disparities in reproductive health care. The American College of Nurse–Midwives (ACNM) supports efforts to provide transgender, transsexual, and gender variant individuals with access to safe, comprehensive, culturally competent health care.
	Accreditation Commission for Education in Nursing (ACEN, 2021)	<b>STANDARD 4. Curriculum</b> 4-9. Student clinical experiences and practice learning environments are evidence-based; reflect contemporary practice and nationally established patient health and safety goals; and support the achievement of the end-of- program student learning outcomes.	<b>STANDARD 4. Curriculum</b> 4.5. The curriculum includes cultural, ethnic, and socially diverse concepts and may also include experiences from regional, national, or global perspectives.
			Table continues on next page.

		Table 2. Continued	ned
Profession	Accrediting body	Experiential education requirement	Health equity requirement
Social work	Council on Social Work Education (CSWE, 2015)	Educational Policy 2.2—Signature Pedagogy: Field Education The intent of field education is to integrate the theoretical and conceptual contribution of the classroom with the practical world of the practice setting. It is a basic precept of social work education that the two interrelated components of curriculum—classroom and field—are of equal importance within the curriculum, and each contributes to the development of the requisite competencies of professional practice. Field education is systematically designed, supervised, coordinated, and evaluated based on criteria by which students demonstrate the Social Work Competencies. Field education may integrate forms of technology as a component of the program. 2.2.1. The program explains how its field education program connects the theoretical and conceptual contributions of the classroom and field settings. 2.2.2.2. The program provides generalist practice opportunities for students to demonstrate social work competencies with individuals, families, groups, organizations, and communities and illustrates how this is accomplished in field settings.	<ul> <li>Competency 2: Engage Diversity and Difference in Practice</li> <li>Social workers understand how diversity and difference characterize and</li> <li>Social workers understand how diversity and difference characterize and</li> <li>The dimensions of diversity are understood as the intersectionality of</li> <li>multiple factors including but not limited to age, class, color, culture,</li> <li>disability and ability, ethnicity, gender, gender identity and expression,</li> <li>immigration status, marital status, political ideology, race, religion/</li> <li>spirituality, sex, sexual orientation, and tribal sovereign status. Social</li> <li>workers understand that, as a consequence of difference, a person's</li> <li>life experiences may include oppression, poverty, marginalization, and</li> <li>alienation as well as privilege, power, and acclaim. Social workers also</li> <li>understand the forms and mechanisms of oppression and discrimination</li> <li>and recognize the extent to which a culture's structures and values,</li> <li>including social, economic, political, and cultural exclusions, may</li> <li>oppress, marginalize, alienate, or create privilege and power. Social</li> <li>workers:</li> <li>apply and communicate understanding of the importance of diversity and difference in shaping life experiences in practice at the micro, mezzo, and macro levels;</li> <li>apply self-awareness as learners and engage clients and constituencies as experts of their own experiences; and</li> <li>orghy self-awareness and values in working with diverse clients and constituencies</li> <li>apply self-awareness and values in working with diverse clients and constituencies</li> <li>apply self-awareness and values in working with diverse clients and constituencies</li> <li>apply self-awareness and values in working with diverse clients and constituencies</li> <li>apply self-awareness and values in working with diverse clients and constituencies</li> <li>apply self-awareness and values in working with diverse clients and constitu</li></ul>
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Accrediting body	Experiential education requirement	Health equity requirement
	<ul> <li>2.2.4. The program explains how students across all program options in its field education program demonstrate social work competencies through in - person contact with clients and constituencies.</li> <li>2.2.5. The program describes how its field education program provides a minimum of 400 hours of field education for baccalaureate programs and a minimum of 900 hours for master's programs.</li> <li>2.2.6. The program provides its criteria domits only those students who have admits only those students who have its field education program admits only those students who have its field education program admits only those students who have its field education program admits only those students of admits only those students who have met the program describes how its field education program specifies policies, criteria.</li> <li>2.2.7. The program describes how its field education program specifies policies, criteria.</li> <li>2.2.8. The program describes how its field education program maintains contact with field setting student stating with the social work competencies.</li> <li>2.2.8. The program describes how its field education program maintains contact with field setting student learning and field setting student learning are used to monitor student learning and field setting effectiveness.</li> </ul>	human rights violations, and are knowledgeable about theories of human need and social justice and strategies to promote social and economic justice and human rights. Social workers understand strategies designed to eliminate oppressive structural barriers to ensure that social goods, rights, and responsibilities are distributed equitably human rights are protected. Social workers: • apply their understanding of social, economic, and environmental justice to advocate for human rights at the individual and system levels; and • engage in practices that advance social, economic, and environ- mental justice.

	Health equity requirement		Table continues on next page
Table 2. Continued	Experiential education requirement	<ul> <li>2.2.9. The program describes how its field education program specifies the credentials and practice experience of its field instructors necessary to design field learning opportunities for students for demonstrate program social work competencies. Field instructors for master's students hold a master's degree in social work from a CSWE-accredited program and have 2 years post-master's social work practice experience. For cases in which a field instructor does not hold a CSWE-accredited social work degree or does not have the required experience, the program assumes responsibility for reinforcing a social work prespective and describes how this is accomplished.</li> <li>2.2.10. The program describes how its field education program provides orientation, field instruction training, and continuing dialog with field</li> </ul>	education settings and field instructors. 2.2.11. The program describes how its field education program develops policies regarding field placements in an organization in which the student is also employed. To ensure the role of student as learner, student assignments and field education supervision are not the same as those of the student's employment.
-		<ul> <li>2.2.9. The program describes how its field education program specifies the credentials and practice experience of its field instructors necessary to design field learning opportunities for students to demonstrate program social work competencies. Field instructors for master's degre in social work from a CSWE-accredited program and have 2 years post-master' social work practice experience. For case in which a field instructor does not hold a CSWE-accredited social work degree o does not have the required experience, the program assumes responsibility for reinforcing a social work perspective an describes how this is accomplished.</li> <li>2.2.10. The program describes how its field education program provides orientation, field instruction training, and continuing dialog with field</li> </ul>	education settings and field instructors. 2.2.11. The program describes how its field education program develops policies regarding field placements in ar organization in which the student is als employed. To ensure the role of student as learner, student assignments and fiel education supervision are not the same as those of the student's employment.
	Accrediting body		
	Profession		

		Table 2. Continued	ned
Profession	Accrediting body	Experiential education requirement	Health equity requirement
Public health	Council on Education for Public Health (CEPH, 2021)	<ul> <li>D5. MPH Applied Practice Experiences</li> <li>MPH students demonstrate competency attainment through applied practice experiences.</li> <li>Applied practice experiences may be concentrated in time or may be spread throughout a student's enrollment.</li> <li>Opportunities may include the following:</li> <li>a practicum or internship com-</li> </ul>	<ul> <li>D2. MPH Foundational Competencies</li> <li>Public Health &amp; Health Care Systems</li> <li>6. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and systemic levels</li> <li>Planning &amp; Management to Promote Health</li> <li>7. Assess population needs, assets and capacities that affect communities' health</li> </ul>
		pleted during a summer or aca- demic term • course-based activities (e.g.,	8. Apply awareness of cultural values and practices to the design, implementation or critique of public health policies or programs Policy in Public Health
		performing a needed task for a public health or health care organization under the supervi- sion of a faculty member as an individual or group of students)	14. Advocate for political, social or economic policies and programs that will improve health in diverse populations 15. Evaluate policies for their impact on public health and health equity <i>Communication</i>
		<ul> <li>activities linked to service learn- ing, as defined by the program, school or university</li> </ul>	<ul><li>20. Describe the importance of cultural competence in communicating public health content</li><li>G1. Diversity and Cultural Competence</li></ul>
		<ul> <li>co-curricular activities (e.g., service and volunteer opportuni- ties, such as those organized by a student association)</li> </ul>	The school or program defines systematic, coherent and long-term efforts to incorporate elements of diversity. Diversity considerations relate to faculty, staff, students, curriculum, scholarship and community engagement efforts.
		<ul> <li>a blend of for-credit and/or not- for-credit activities</li> <li>Applied practice experiences may involve governmental, non-governmental,</li> </ul>	The school or program also provides a learning environment that prepares students with broad competencies regarding diversity and cultural competence, recognizing that graduates may be employed anywhere in the world and will work with diverse populations.
		)	Table continues on next nade

		Table 2. Continued	nued
Profession	Accrediting body	Experiential education requirement	Health equity requirement
		non-profit, industrial and for-profit settings or appropriate university- affiliated settings. To be appropriate for applied practice experience activities, university-affiliated settings must be primarily focused on community engagement, typically with external partners. University health promotion or wellness centers may also be appropriate. The school or program identifies sites in a manner that is sensitive to the needs of the agencies or organizations involved. Activities meeting the applied practice experience should be mutually beneficial to both the site and the student. The applied practice experiences allow each student to demonstrate attainment of at least five competencies, of which at least three must be foundational competencies (as defined in Criterion D2). The competencies need not be identical from student to student, but the applied experiences must be structured to ensure that all students complete experiences must be structured to ensure that all students competencies, as specified above. The applied experiences may also address additional foundational or concentration-specific competencies, if appropriate.	<ul> <li>Schools and programs advance diversity and cultural competency through a variety of practices, which may include the following: <ul> <li>incorporation of diversity and cultural competency considerations in the curriculum</li> <li>recruitment and retention of diverse faculty, staff and students</li> <li>development and/or implementation of policies that support a climate of equity and inclusion, free of harassment and discrimination</li> <li>reflection of diversity and cultural competence in the types of scholarship and/or community engagement conducted</li> </ul> Aspects of diversity may include age, country of birth, disability, ethnicity, gender, gender identity, language, national origin, race, historical under-representation, refugee status, religion, culture, sexual orientation, health status, community affiation and socioeconomic status. This list is not intended to be exhaustive. Cultural competence, in this criterion's context, refers to competencies for working with diverse individues and communities in ways from the school or program's dominant cultural competences may vary from the school or program's dominant cultural differences, open-minded inquiry and assessment, and three ability to recognize and adapt to cultural differences, especially as these differences may vary from the school or program's dominant cultural differences and adapt to cultural differences for the competence in the school or program's scholarship and/or community engagement.</li></ul>

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		Table 2. Continued	nued
Profession	Accrediting body	Experiential education requirement	Health equity requirement
		The school or program assesses each student's competency attainment in practical and applied settings through a portfolio approach, which demonstrates and allows assessment of competency attainment. It must include at least two products. Examples include written assignments, projects, videos, multi- media presentations, spreadsheets, websites, posters, photos or other digital artifacts of learning. Materials may be produced and maintained (either by the school or program or by individual students) in any physical or electronic form chosen by the school or program. The materials may originate from multiple experiences (e.g., applied community-based courses and service learning courses throughout the curriculum) or a single, intensive experience (e.g., an internship requiring a significant time commitment with one site). While students may complete experience are arburdials or as groups in a structured experience, each student must present documentation demonstrating individual competency attainment.	
Pharmacy	Accreditation Council for Pharmacy Education (ACPE, 2015)	<b>Standard 12: Pre-Advanced Pharmacy</b> <b>Practice Experience (Pre-APPE)</b> <b>Curriculum</b> <i>12.5. Introductory Pharmacy Practice</i> <i>Experience (IPPE) expectations</i>	<b>Standard 3: Approach to Practice and Care</b> <i>3.5.</i> Cultural sensitivity The graduate is able to recognize social determinants of health to diminish disparities and inequities in access to quality care.
			Table continues on next page.

Table 2. Continued	Health equity requirement	8
	Experiential education requirement	IPPEs expose students to common contemporary U.S. practice models, including interprofessional practice involving shared patient care decision- making, professional ethics and expected behaviors, and direct patient care activities. IPPEs are structured and sequenced to intentionally develop in students a clear understanding of what constitutes exemplary pharmacy practice in the U.S. prior to beginning APPE. 12.6. IPPE duration IPPE totals no less than 300 clock hours of experience and is purposely integrated into the didactic curriculum. A minimum of 150 hours of IPPE are balanced between community and institutional health-system settings. 12.7. Simulation for IPPE Simulated practice experiences (a maximum of 6 c clock hours of the total 300 hours) may be used to mimic actual or realistic pharmacist delivered patient care situations. However, simulation hours do not substitute for the 150 clock hours of required IPPE time in community and institutional health-system settings. Didactic instruction associated with the implementation of simulated practice experiences is not counted toward any portion of the 300 clock hour IPPE requirement.
	Accrediting body	
	Profession	