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A Faculty Development Graduate Medical Education Retreat to Teach and Address Social Determinants of Health

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ABSTRACT

BACKGROUND: Social determinants of health (SDH) account for a large percentage of health outcomes. Therefore, ensuring providers can address SDH is paramount yet curricula in this area is limited.

AIM: The authors aimed to raise awareness, identify learning opportunities, foster positive attitudes, and equip educators to implement SDH curriculum.

SETTING AND PARTICIPANTS: This retreat occurred at a large academic institution and had over 130 participants who represented 56 distinct training programs and over 20 disciplines.

PROGRAM DESCRIPTION: The retreat was titled “Social Determinants of Health: Walking in Your Patients’ Shoes.” The retreat was holistic and used a multidimensional approach that included traditional learning, team-based learning, reflective practice, and prompted action.

PROGRAM EVALUATION: The evaluation of this retreat included electronic surveys and both qualitative and quantitative data. The retreat’s quality and effectiveness at improving participants’ knowledge and skill in addressing SDH was highly rated and resulted in numerous programs, including surgical and subspecialty programs reporting adopting SDH curricular and clinical workflow changes.

DISCUSSION: The retreat was successful and reached a wide and diverse set of faculty educators and can serve as an education model to the graduate medical education community on how to start to develop “physician-citizens.”

KEYWORDS: Health disparity, social determinants of health, graduate medical education, faculty development


TYPE: Original Research

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Introduction

The social determinants of health (SDH) refer to the many social, economic, and environmental factors that affect health and well-being. They include the conditions of how we are born, grow up, live, work, and age.1 Social determinants of health account for 60% of health outcomes as opposed to clinical care which accounts for only 10%.2 Numerous studies have supported this association, demonstrating that SDH are inexorably linked to adverse health care use as well as significant morbidity and mortality.3,4 Therefore, ensuring health care providers have sufficient knowledge about SDH and their health impact is paramount. To mitigate the deleterious health effects of SDH, clinicians need to be equipped with the skills to both recognize and address SDH.

Awareness of SDH among physicians is increasing but specific content knowledge is challenged by limited curricula. There is an even greater dearth of curricula focusing on physician skill and competence in integrating SDH into the clinical management of patients and communities. Lack of knowledge about resources to manage SDH, skills in patient communication, and physician comfort in this content area have been identified as significant priority areas for education.6,7 It has also been shown that negative physician attitudes about the importance of SDH in patient care and beliefs about the health effects of SDH further interfere with the delivery of equitable health care.8–10

Despite the growing importance of SDH, it has been difficult to quantify the amount of SDH education that physicians receive. A major challenge has been the breadth of SDH topics which are often not explicitly labeled as SDH; instead, are found in curricula under umbrella terms like “population health,” “community-based care,” “service-learning,” “marginalization and vulnerability,” “social justice,” and “advocacy.”6 Most published curricula targets undergraduate medical
education\textsuperscript{10-12} rather than graduate medical education (GME),\textsuperscript{13} and those GME-level educational programs that do exist are mostly embedded in pediatrics training programs and do not target faculty.\textsuperscript{14-17}

To enhance physician knowledge, skills, and attitudes specific to SDH, the Office of Academic Affairs at Northwell Health and the Zucker School of Medicine at Hofstra/Northwell sought to create a 1-day retreat for clinician-educator faculty to focus on SDH. The goals of the overall retreat were to (1) raise awareness of the impact of SDH on health outcomes, (2) identify learning opportunities for GME faculty to teach SDH in their training programs, (3) foster positive attitudes toward integrating SDH into clinical care, and (4) equip clinician-educators with tools and resources to support impactful SDH curriculum. The retreat targeted all residency and fellowship programs, irrespective of specialty, and included educational leaders with the capacity to influence curricula and training across the institution.

Setting and Participants
Northwell Health and the School of Medicine has nearly 140 accredited residency and fellowship programs with over 1600 trainees, placing the GME program as one of the largest in the nation. Northwell Health, where the residents complete their clinical training, is the third largest secular integrated health system in the nation with 15 teaching hospitals. Given the large catchment area, Northwell Health providers deliver care to a large ethnically and linguistically diverse patient population.

To address physician gaps in learning around SDH, an innovative educational retreat focused on SDH was developed in 2017. This faculty development retreat also served as a response to the Accreditation Council for Graduate Medical Education’s (ACGME) Clinical Learning Environment Review (CLER) recommendations. Specifically, it addressed health care quality pathway recommendation #5 that asks for formal activities to educate faculty members on reducing health care disparities.\textsuperscript{18}

The aim of the retreat was to provide an innovative education model that could target large numbers of faculty across multiple specialties, to provide faculty with skills and resources in SDH, and to serve as a venue for faculty to network, teach, and present scholarly work in this area. There were 134 registered participants (Table 1). They represented 56 distinct training programs and over 20 disciplines from multiple sites of care delivery.

Program Description
This full day retreat was titled “Social Determinants of Health: Walking in Your Patients’ Shoes.” Content of the program was designed to affect physicians’ “hearts (reflection) and minds (knowledge)” and to identify skills faculty and trainees need to address SDH. The retreat’s intention was to go beyond learning just about what SDH are, how they came to be and also what can be done to mitigate SDH. There were 5 main learning objectives for the retreat’s participants. Participants should be able to (1) engage educational leadership in identifying learning variables that affect trainees’ exposure to SDH, (2) illustrate the effects of SDH, (3) demonstrate methods used to screen for SDH, (4) describe educational approaches to teaching SDH, and (5) participate in best practices that will provide educational innovations to support GME in addressing SDH.

The retreat day started with an interactive team-based learning session on SDH. Reflective videos\textsuperscript{19,20} were used to introduce the concept of SDH. The videos were then followed by prompting questions to allow faculty to talk about the importance of SDH awareness and develop feelings of empowerment to be actively engaged in SDH dissemination. Concrete and relevant local health disparity data were shared to connect the videos to the health needs of the community the faculty serve.\textsuperscript{21}

Next, small-group methods were employed among the participants to create mini curricula from a menu list of content that relates to health equity. The listed content topics included health disparities, SDH, cultural competency/humility, linking equity to quality initiatives, patient mistrust, “-isms” (ie racism, sexism, ageism, etc), community engagement, health literacy, use of interpreters, and care of lesbian, gay, bisexual, transgender, queer populations. To facilitate the creation of mini curricula, each group was given an instructional worksheet which outlined a 4-step process on creating curricula and a handout on Bloom’s\textsuperscript{22} taxonomy of learning domains and verbs. As part of the 4-step curriculum development process, modified from Kern’s 6-step approach,\textsuperscript{23} educators were challenged to focus on curricula that

<table>
<thead>
<tr>
<th>Table 1. Registered participants (n = 134).</th>
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<tbody>
<tr>
<td>% (N)*</td>
</tr>
<tr>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>MD</td>
</tr>
<tr>
<td>DO</td>
</tr>
<tr>
<td>PhD</td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>Emergency medicine</td>
</tr>
<tr>
<td>Family medicine</td>
</tr>
<tr>
<td>Medicine and medical subspecialties</td>
</tr>
<tr>
<td>Obstetrics and gynecology</td>
</tr>
<tr>
<td>Other clinical specialty</td>
</tr>
<tr>
<td>Pediatrics and pediatric subspecialties</td>
</tr>
<tr>
<td>Psychiatry</td>
</tr>
<tr>
<td>Radiology</td>
</tr>
<tr>
<td>Surgery and surgical subspecialties</td>
</tr>
<tr>
<td>Urology</td>
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<tr>
<td>Non-clinical</td>
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</tbody>
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*Column may not add up to 100%; given numbers were rounded to nearest integer.
would lead to skill development and patient/community needs. The 4 steps included the following: (1) choosing a goal, (2) writing learning objectives that were S.M.A.R.T. (specific, measurable, achievable, relevant, and timely), (3) outlining specific tasks that would transmit the desired knowledge, and (4) planning a method to measure whether or not learners, and if possible patients, benefited from the teaching. The final step followed Kirkpatrick’s 4 levels of evaluation: (1) reaction, (2) knowledge, (3) behavior, and (4) patient (learner) outcome. The curriculum from each group was then collected and compiled for distribution to all registered participants (Supplemental Appendix B).

The morning session concluded with a keynote address titled “Beyond the Bedside: SDH Residency Training and Outcomes” and a presentation titled “Educate to Empower: Gateway to Social Equity.” The keynote was delivered by a pediatrician who is a nationally recognized SDH content expert, and the presentation was delivered by our Chief Community Health Investment Officer. This was followed by short talks and workshops that were selected by a planning committee based on their alignment with the SDH theme (Supplemental Appendix A). All retreat content attempted to go beyond just awareness of SDH and also include ideas on how to take actionable items to mitigate the effects of SDH.

The theme of “Social Determinants of Health: Walking in your patients’ shoes” was woven throughout all events of the retreat. Stories that illustrated how SDH affected their patients were submitted by housestaff and displayed during lunch. As a tangible contribution, each participant was asked to bring a new pair of shoes to donate.

Program Evaluation

The evaluation of this retreat included an electronic survey made immediately available to participants after the retreat and a 3-month post-retreat survey. The survey responses included both qualitative and quantitative data. The questions assessed the retreat’s quality and effectiveness at improving participants’ knowledge and skill in addressing SDH. The short-term and 3-month post-survey had a 46% (61 of 134) and 24% (32 of 134) response rate, respectively.

Short-term survey responses highly rated the retreat’s quality and effectiveness. All but 2 of the 20 sessions received the highest rating for quality. Most of the respondents (67% or higher) selected the highest score of 5, from a 1-5 Likert-type scale, for the extent to which the retreat allowed them to achieve the prior mentioned participant objectives (see the “Program Description” section).

Open-ended responses mentioned several advantages and barriers to teaching SDH. The responses were grouped into 3 main domains, those advantages and barriers that mapped to patients, trainees, or systems/society (Table 2). The number of reported unique advantages outnumbered the number of barriers reported. The barriers to teaching SDH identified in the short-term and at 3 months were similar and grouped predominantly around resources-time, staffing, and having already developed content. Some specialties (pathology and radiology) did not see the applicability to their area of practice. A representative quote that exemplifies this barrier was “changes that apply to radiology are few and far between.”

Nearly 90% of participants planned to enhance SDH training in their GME program. At 3 months, 97% of those who responded to the survey, representing 23% of total registered participants, reported making a change to their curriculum or clinical work flows and 46% of survey respondents reported having accessed 1 or more of the resources provided. Some of the specific changes reported included use of expanded social histories, creating experiential learning through immersion at community-based organizations (CBO), facilitating resident-led SDH projects, added content to standing didactics, and

Table 2. Advantages and barriers to teaching social determinants of health.

<table>
<thead>
<tr>
<th>ADVANTAGES</th>
<th>BARRIERS</th>
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<tbody>
<tr>
<td>Patient</td>
<td>Lack of community linkages</td>
</tr>
<tr>
<td>Ensure patients receive appropriate treatment</td>
<td></td>
</tr>
<tr>
<td>Better connection with patients (enhance trust</td>
<td>Lack of interest</td>
</tr>
<tr>
<td>(enhance communication)</td>
<td></td>
</tr>
<tr>
<td>Start to change practice patterns</td>
<td></td>
</tr>
<tr>
<td>Trainees</td>
<td></td>
</tr>
<tr>
<td>Well-rounded residents who understand the</td>
<td>Lack of interest</td>
</tr>
<tr>
<td>environment of health care they will be</td>
<td></td>
</tr>
<tr>
<td>entering</td>
<td></td>
</tr>
<tr>
<td>Makes residents more sensitive (empathic,</td>
<td>Content experts</td>
</tr>
<tr>
<td>compassionate) to patients’ needs</td>
<td></td>
</tr>
<tr>
<td>Create global thinkers</td>
<td>Competing demands</td>
</tr>
<tr>
<td>System/Society</td>
<td></td>
</tr>
<tr>
<td>Result in health equity, decreased hospital</td>
<td>Resources (time, teachers, money)</td>
</tr>
<tr>
<td>costs</td>
<td></td>
</tr>
<tr>
<td>Important social issues that need government-</td>
<td></td>
</tr>
<tr>
<td>level-change</td>
<td></td>
</tr>
<tr>
<td>Allows our institution to establish itself as</td>
<td></td>
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<tr>
<td>a leader in this field</td>
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<tr>
<td>Meeting our regulatory (ACGME, CLER)</td>
<td></td>
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<td>requirements</td>
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</tbody>
</table>

Abbreviations: ACGME, Accreditation Council for Graduate Medical Education; CLER, Clinical Learning Environment Review.
creating a SDH learning index. At 3 months, only 1 survey respondent reported they were able to see an improvement in a patient outcome based on the SDH changes they implemented. In the 2 subsequent academic years since the retreat, all of our GME programs, as part of their annual program evaluation, were asked to report on “stand alone or integrated educational activities related to SDH” that their trainees received. In both years, approximately 75% (120 of 160) of our programs reported delivering at least 1 SDH educational activity to their trainees.

Discussion

This innovative retreat successfully used a 1-day format that was inclusive of all specialties and multiple sites within a large integrated health system. The retreat met its established goals of raising awareness of SDH, engaging faculty to identify learning opportunities to introduce SDH curriculum, and equipping educators with tools and resources for implementation strategies. This is evidenced by a large percentage (97%) of our responding participants reporting they had made actual changes to their training program curriculum 3 months post retreat. In addition, the survey results show this program to be feasible and generalizable to many academic settings. Finally, the retreat organizers collected and donated over 200 pairs of shoes to a local partnering CBO.

Several organizations have voiced the importance of addressing health equity, specifically by teaching and addressing SDH.18,26,27 These recommendations have prompted a growth of work in this area, yet much more is still needed.6,13 Our GME retreat offers an example of how an academic institution can start to bring this knowledge and skillset to a large institution’s approach and demonstration of commitment to health equity that can serve as a model to the GME community on how to start to develop “physician–citizens.”

Authors’ Note

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Author Contributions

JM and ACY had full access to all of the data in the manuscript and take responsibility for the integrity of the data and the manuscript. Concept and design of the program: AF, EF, Martinez, VV and ACY Acquisition, analysis, or interpretation of data: AF, EF, EJK, JM, VV, OTU, ACY Drafting and critical review of the manuscript: JC, AF, EF, EJK, JM, VanHuse, OTU, ACY

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Supplemental Material

Supplemental material for this article is available online.

REFERENCES

27. Accreditation Council for Graduate Medical Education. *Common Program Requirements (Residency)*. Section I-IV. https://www.acgme.org/What-We-Do/Accreditation/Common-Program-Requirements