Strategies of Female Teaching Attending Physicians to Navigate Gender-Based Challenges: An Exploratory Qualitative Study

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BACKGROUND: Women in medicine experience discrimination, hostility, and unconscious bias frequently and with deleterious effects. While these gender-based challenges are well described, strategies to navigate and respond to them are less understood.

OBJECTIVE: To explore the lived experiences of female teaching attending physicians emphasizing strategies they use to mitigate gender-based challenges in clinical environments.

DESIGN: Multisite exploratory, qualitative study.

SETTING: Inpatient general medicine teaching rounds in six geographically diverse US academic hospitals between April and August 2018.

PARTICIPANTS: With use of a modified snowball sampling approach, female attendings and their learners were identified; six female attendings and their current (n = 24) and former (n = 17) learners agreed to participate.

MEASUREMENTS: Perceptions of gender-based challenges in clinical teaching environments and strategies with which to respond to these challenges were evaluated through semistructured in-depth interviews, focus group discussions, and direct observations of rounds. Observations were documented using handwritten field notes. Interviews and focus groups were audio recorded and transcribed. All transcripts and field note data were analyzed using a content analysis approach.

MAIN OUTCOMES: Attending experience levels ranged from 8 to 20 years (mean, 15.3 years). Attendings were diverse in terms of race/ethnicity. Strategic approaches to gender-based challenges clustered around three themes: female attendings (1) actively position themselves as physician team leaders, (2) consciously work to manage gender-based stereotypes and perceptions, and (3) intentionally identify and embrace their unique qualities.

CONCLUSION: Female attendings manage their roles as women in medicine through specific strategies to both navigate complex gender dynamics and role model approaches for learners. Journal of Hospital Medicine 2020;15:454-460. © 2020 Society of Hospital Medicine
[URMs] in medicine). URM was defined by the Association of American Medical Colleges as “those racial and ethnic populations that are underrepresented in the medical profession relative to their numbers in the general population.” A modified snowball sampling approach was employed to identify attendings as delineated below.

To maintain quality while guaranteeing diversity in geography and population, potential institutions in which to observe attendings were determined by first creating the following lists: The top 20 hospitals in the U.S. News & World Report’s 2017-2018 Best Hospitals Honor Roll, top-rated institutions by Doximity in each geographic region and among rural training sites, and four historically Black colleges and universities (HBCUs) with medical schools. Institutions visited during a previous similar study were excluded. Next, the list was narrowed to 25 by randomly selecting five in each main geographic region and five rural institutions. These were combined with all four HBCUs to create a final list of 29 institutions.

Next, division of hospital medicine chiefs (and/or general medicine chiefs) and internal medicine residency directors at each of these 29 institutions were asked to nominate exemplary attendings, particularly those who identified as women and URMs. Twelve attendings who were themselves observed in a previous study were also asked for nominations. Finally, recommendations were sought from leaders of relevant American Medical Association member groups.

Using this sampling method, 43 physicians were identified. An internet search was conducted to identify individual characteristics including medical education, training, clinical and research interests, and educational awards. These characteristics were considered and discussed by the research team. Preference was given to those attendings nominated by more than one individual (n = 3), those who had received teaching awards, and those with interests involving women in medicine. Research team members narrowed the list to seven attendings who were contacted via email and invited to participate. One did not respond, while six agreed to participate. The six attendings identified current team members who would be rounding on the visit date. Attendings were asked to recommend 6-10 former learners; we contacted these former learners and invited them to participate. Former learners were included to understand lasting effects from their attendings.

Data Collection

Observations
All 1-day site visits were conducted by two research team members, a physician (NH) and a qualitative research specialist (MQ). In four visits, an additional author accompanied the research team. In order to ensure consistency and diversity in perspectives, all authors attended at least one visit. These occurred between April 16 and August 28, 2018. Each visit began with direct observation of attendings (n = 6) and current learners (n = 24) during inpatient general medicine teaching rounds. Each researcher unobtrusively recorded their observations via handwritten, open field notes, paying particular attention to group interactions, teaching approach, conversations within and peripheral to the team, and patient–team interactions. After each visit, researchers met to compare and combine field notes.

Interviews and Focus Groups
Researchers then conducted individual, semistructured interviews with attendings and focus groups with current (n = 21) and former (n = 17) learners. Focus groups with learners varied in size from two to five participants. Former learners were occasionally not available for on-site focus groups and were interviewed separately by telephone after the visit. The interview guide for attendings (Appendix 1) was adapted from the prior study but expanded with questions related to experiences, challenges, and approaches of female and URM physicians. A separate guide was used to facilitate focus groups with learners (Appendix 1). Three current learners were unable to participate in focus groups due to clinical duties. All interviews and focus groups were audio recorded and transcribed.

This study was determined to be exempt by the University of Michigan Institutional Review Board. All participants were informed that their participation was completely voluntary and that they could terminate their involvement at any time.

Data Analysis

Data were analyzed using a content analysis approach. Inductive coding was used to identify codes derived from the data. Two team members (MQ and MH) independently coded the first transcript to develop a codebook, then met to compare and discuss codes. Codes and definitions were entered into the codebook. These team members continued coding five additional transcripts, meeting to compare codes, discussing any discrepancies until agreement was reached, adding new codes identified, and ensuring consistent code application. They reviewed prior transcripts and recoded if necessary. Once no new codes were identified, one team member coded the remaining transcripts. The same codebook was used to code field note documents using the same iterative process. After all qualitative data were coded and verified, they were entered into NVivo 10. Code reports were generated and reviewed by three team members to identify themes and check for coding consistency.

Role of the Funding Source
This study received no external funding.

RESULTS
We examined six exemplary attendings through direct observation of rounds and individual interviews. We also discussed these attendings with 21 current learners and 17 former learners (Appendix 2). All attendings self-identified as female. The group was diverse in terms of race/ethnicity, with three identifying as Black or African American, two as Asian, and one as White or Caucasian. Levels of experience as an attending ranged from 8 to 20 years (mean, 15.3 years). At the time of observation, two were professors and four were associate professors. The group included all three attendings who had been...
nominated by more than one individual, and all six had won multiple teaching awards. The observation sites represented several areas of the United States (Table 1).

The coded interview data and field notes were categorized into three broad overlapping themes based on strategies our attendings used to respond to gender-based challenges. The following sections describe types of challenges faced by female attendings along with specific strategies they employed to actively position themselves as physician team leaders, manage gender-based stereotypes and perceptions, and identify and embrace their unique qualities. Illustrative quotations or observations that further elucidate meaning are provided.

**Female Attendings Actively Position Themselves as Physician Team Leaders**

Our attendings frequently stated that they were assumed to be other healthcare provider types, such as nurses or physical therapists, and that these assumptions originated from patients, faculty, and staff (Table 2). Attending 3 commented, “I think every woman in this role has been mistaken for a different caretaker role, so lots of requests for nursing help. I’m sure I have taken more patients off of bed pans and brought more cups of water than maybe some of my male counterparts.” Some attendings responded to this challenge with the strategy of routinely wearing a white coat during rounds and patient encounters. This external visual cue was seen as a necessary reminder of the female attending role.

We found that patients and healthcare providers often believe teams are led by men, leading to a feeling of invisibility for female attendings. One current learner remarked, “If it was a new patient, more than likely, if we had a female attending, the patient’s eyes would always divert to the male physician.” This was not limited to patients. Attending 6 remembered comments from her consultants including, “Who is your attending? Let me talk with them,’ kind of assuming that I’m not the person making the decisions.” Female attendings would respond to this challenge by clearly introducing team members, including themselves, with roles and responsibilities. At times, this would require reintroductions and redirection if individuals still misidentified female team members.

Female attendings’ decision-making and thought processes were frequently second-guessed. This would often lead to power struggles with consultants, nurses, and learners. Attending 5 commented, “Even in residency, I felt this sometimes adversarial relationship with...female nurses where they would treat [female attendings] differently...questioning our decisions.” Female attendings would respond to this challenge by asserting themselves and demonstrating confidence with colleagues and at the bedside. This was an active process for women, as one former learner described: “[Female] attendings have to be a lit-
Female Attendings Consciously Work to Manage Gender-Based Stereotypes and Perceptions

Our attendings navigated gender-based stereotypes and perceptions, ranging from subtle microaggressions to overt sexual harassment (Table 3). This required balance between extremes of being perceived as “too nice” and “too aggressive,” each of which was associated with negativity. Attending 1 remarked, “I know that other [female] faculty struggle with that a bit, with being...assertive. They are assertive, and it’s interpreted [negatively].” Attending 6 described insidiously sexist comments from patients: “You are too young to be a physician, you are too pretty to be a physician.” ‘Oh, the woman doctor...rather than just ‘doctor.’” During one observation of rounds, a patient remarked to the attending, “You have cold hands. You know, I’m going to have to warm those up.” Our attendings responded to these challenges by proactively avoiding characteristics and behaviors considered to be stereotypically feminine in order to draw attention to their qualities as physicians rather than as women. During interviews, some attendings directed conversation away from themselves and instead placed emphasis on coaching male learners to navigate their own demeanors, behaviors, and responses to gender bias and harassment. This would include intentional planning of how to carry oneself, as well as feedback and debrief sessions after instances of harassment.

Our attendings grappled with how to physically portray themselves to avoid gender-based stereotypes. Attending 6 said, “Sometimes you might be taken less seriously if you pay more attention to your makeup or jewelry.” The same attending recalled “times where people would say inappropriate things based on what I was wearing—and I know that doesn’t happen with my male colleagues.” Our attendings responded to this challenge through purposeful choices of attire, personal appearance, and even external facial expressions that would avoid drawing unwanted or negative personal attention outside of the attending role.

Female Attendings Intentionally Identify and Embrace Their Unique Qualities

Our attendings identified societal gender norms and “traditional” masculine expectations in medicine (Table 4). Attending 4 drew attention to her institution’s healthcare leaders by remarking, “I think that women in medicine have similar challenges as women in other professional fields...Well, I guess it is different in that the pictures on the wall behind me are all White men.” Female attendings responded to this challenge by eschewing stereotypical qualities and intentionally finding and exhibiting their own unique strengths (eg, teaching approaches, areas of expertise, communication styles). By embracing their unique strengths, attendings gained confidence and felt more comfortable as physicians and educators. Advice from Attending 3 for other female physicians encapsulated this strategy: “But if [medicine] is what you love doing, then find a style that works for you, even if it’s different....Embrace being different.”

Several attendings identified patterns of thought in themselves that caused them to doubt their accomplishments and have a persistent fear of being exposed as a fraud, commonly known as impostor syndrome. Attending 2 summarized this with, “I know it’s irrational a little bit, but part of me [asks], ‘Am I getting all these opportunities because I’m female, because I’m a minority?’” Our attendings responded by recognizing im-

### TABLE 2. Specific Strategies Female Attendings Use to Actively Position Themselves as Physician Team Leaders

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<th>Challenge</th>
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<td>Female team members are assumed to be nurses or other nonphysician healthcare providers.</td>
<td>Female attendings wear white coats on rounds to identify themselves as physicians.</td>
<td>“I have noticed...that female attendings will make more of a point to wear their white coat all the time, and that is because they walk into rooms and are [misidentified] as a nurse or called ‘honey’ or things like that.” (Former Learner)</td>
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<td>Healthcare teams are assumed to be led by men.</td>
<td>Female attendings make clear introductions and reintroductions regarding team roles and responsibilities.</td>
<td>“We always start by introducing [ourselves] and...I say, ‘I am the supervising physician on the team.’” (Attending 2)</td>
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<td>Female physician decision-making and thought processes are questioned or second-guessed.</td>
<td>Female attendings actively assert themselves and demonstrate confidence with patients and colleagues, particularly early in their careers.</td>
<td>“I think part of what I did when I was newer was I felt the need to try and dominate the bedside situation to overcompensate....And now, I realize that, in order to be a really good teacher, I have to let [learners] shine and I have to let them do a lot of the talking, so I do step back from time to time.” (Attending 2)</td>
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Female attendings actively assert themselves and demonstrate confidence with patients and colleagues, particularly early in their careers.

“Sometimes you might be taken less seriously if you pay more attention to your makeup or jewelry.” (Attending 6)
**TABLE 3.** *Specific Strategies Female Attendings Use to Manage Gender-Based Stereotypes and Perceptions*

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<td>Female physicians face gender-based bias and sexual harassment.</td>
<td>Female attendings intentionally coach their female learners to expect and respond to unconscious bias and gender-based harassment.</td>
<td>“I have had patients make sexual comments, so we have had all those kinds of things, and we talk about it afterwards….That’s when I take my role as the attending and deal with the situation there—sit down and discuss.” (Attending 2)</td>
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<td>Female attendings intentionally coach their female attendings to avoid gender-based harassment.</td>
<td>“I have known for a long time that when I think, I may look displeased….Yes, I’m in good company with Queen Elizabeth. And so, sometimes, I give a disclosure to my team when I come on and say, ‘I just want to let you know that when I’m thinking, I get this look like I am displeased. But don’t worry, I will tell you if I’m displeased.’ And that’s really worked like a charm.” (Attending 1)</td>
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<td>Female attendings navigate their personal outward appearance to avoid unwanted or negative attention.</td>
<td>“Years ago, I used to be very conscious of things I would wear, and our hospital has gone away from using white coats…but I actually liked the white coat piece because it gave me an opportunity to cover up.” (Attending 6)</td>
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**TABLE 4.** *Specific Strategies Female Attendings Use to Identify and Embrace Their Unique Qualities*

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<td>Female physicians face societal gender norms and expectations.</td>
<td>Female attendings intentionally identify and embrace their unique qualities.</td>
<td>“The difficult thing for women is that you have to figure out—‘How can I be myself’?...And I think that is, ‘What is your Whitney Houston? What is your jam? What should you be doing that nobody else can do like you?’ Figure it out because, once you do, it’s going to open you all the way up. You are going to become more confident in everything you do, and the team is going to see you differently.” (Attending 4)</td>
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<td>“I mean, I think I have a different...communication style maybe? Maybe less formal, and I have had comments from colleagues and prior learners that my style in the room is different as well. It’s respectful but not...I don’t sort of dictate things to patients….I realized that about myself very early and, when I was in training, had to conform to whatever environment you are in. But when I got out into practice and realized that I could be myself and people were responsive to that, then that just perpetuated my current style....And I like to be different.” (Attending 3)</td>
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<td>Female attendings recognize “traditional” qualities of physician leaders and avoid assimilation.</td>
<td>“I really don’t know how to assimilate, and it will exhaust me to do so. And so, for me, I think it’s great for my residents because I’m really comfortable in my skin.” (Attending 4)</td>
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<td>“I can’t be, what is it called...’brotastic’...You know, you are bros and you are just, like, male bonding, and...some of the male residents really get into [it]...so I can’t relate to people on that level.” (Attending 1)</td>
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<td>Female physicians experience impostor syndrome.</td>
<td>Female attendings recognize and address impostor syndrome through positive self-reinforcement and “letting it go.”</td>
<td>“I had to come up with a reason why it was me because I had this fear like, ‘Oh, my gosh! What if somebody stands me up on a podium and they just ask me medical questions? I won’t know them all and they will out me!’ And so, I would come up with a reason why they would pick me and not this person or this person or this person. And I finally let that go...You deserve to be here. I have to say that to myself all the time.” (Attending 4)</td>
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<td>“And I still take things personally. You can get 20 good evaluations and one bad evaluation and...the bad one is the ‘accurate’ one....But it’s being able to brush that stuff off....Let it go and not dwelling too much on it.” (Attending 2)</td>
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postor syndrome and addressing it through repeated positive self-reinforcing thoughts and language and by “letting go” of the doubt. Attending 4 recalled her feelings after being announced as a teaching award recipient for the fourth year in a row: “It was just like something changed in me....Maybe you are a good attending. Maybe you are doing something that is resonating with a unique class of medical students year after year.”

Our interviews also revealed strategies used by female attendings to support and advance their own careers, as well as those of other female faculty, to address the effects of impostor syndrome. Our participants noted the important role of female mentors and sponsors. One former learner mentioned, “I think some of the administration, there are definitely females that are helping promote [the attending].” During an observation, Attending 1 indicated that she was part of a network of women and junior faculty forged to promote each other’s work since “some people are good at self-promotion and some are not.” This group shares accomplishments by distributing and publicizing their accolades.

DISCUSSION
This multisite, qualitative study informs the complex ways in which exemplary female teaching attendings must navigate being women in medicine. We identified myriad challenges female attendings face originating from patients, from healthcare workers, and within themselves. Our attendings relied upon the following key strategies to mitigate such challenges: (1) they actively position themselves as physician team leaders, (2) they consciously work to manage gender-based stereotypes and perceptions, and (3) they intentionally identify and embrace their unique qualities.

Prior scholarship surrounding gender-based challenges has focused primarily on strategies to improve healthcare systems for women. Much scrutiny has been placed on elevating institutional culture,26-29 enacting clear policy surrounding sexual harassment,30 ensuring women are actively recruited and retained,31 providing resources to assist in work-life balance,26,32 and cultivating effective mentorship and social networks.11,33,34

While our findings support the importance of improving healthcare systems, they are more congruent with recent scholarship on explicit personal tactics to mitigate gender-based challenges. Researchers have suggested physicians use algorithmic responses to patient-initiated sexual harassment,35 advocate for those who experience harassment in real time,36 and engage in dedicated practice responding to harassment.37,38 Our results build on these studies by outlining strategies intended to navigate complex gender dynamics and role model approaches for learners. Interestingly, it was more common for attendings to discuss how they guide their learners and debrief after difficult situations than to discuss how they personally respond to gender-based harassment. While we are not certain why this occurred, three factors may have contributed. First, attendings mentioned that these conversations are often uncomfortable. Second, attendings appeared to accept a higher level of gender-based challenges than they would have tolerated for their learners. Lastly, although we did not gather demographic data from learners, several attendings voiced a strong desire to advocate for and equip female learners with strategies to address and navigate these challenges for themselves.

Gender stereotypes are ubiquitous and firmly rooted in long-standing belief patterns. Certain characteristics are considered masculine (eg, aggressiveness, confidence) and others feminine (eg, kindness, cooperation).10 Role congruity theory purports that stereotypes lead women to demonstrate behaviors that reflect socially accepted gender norms39 and that social approval is at risk if they behave in ways discordant with these norms.40-42 Our study provides perspectives from female physicians who walk the tightrope of forcefully asserting themselves more than their male counterparts while not being overly aggressive, since both approaches may have negative connotations.

This study has several limitations. First, it was conducted with a limited number of site visits, attendings, and learners. Likewise, attendings were interns with relatively advanced academic rank. This may reduce the study’s generalizability since attendings in other fields and at earlier career stages may utilize different strategies. However, we believe that if more senior-level female attendings experienced difficulties being recognized and legitimized in their roles, then one can assume that junior-level female faculty would experience these challenges even more so. Likewise, data saturation was not the goal of this exploratory study. Through intensive qualitative data collection, we sought to obtain an in-depth understanding of challenges and strategies. Second, many exemplary female attendings were overlooked by our selection methodology, particularly since women are often underrepresented in the factors we chose. The multisite design, modified snowball sampling, and purposeful randomized selection methodology were used to ensure quality and diversity. Third, attendings provided lists of their former learners, and thus, selection and recall biases may have been introduced since attendings may have more readily identified learners with whom they formed positive relationships. Finally, we cannot eliminate a potential Hawthorne effect on data collection. Researchers attempted to lessen this by standing apart from teams and remaining unobtrusive.

CONCLUSION
We identified strategies employed by exemplary female attendings to navigate gender-based challenges in their workplaces. We found that female attendings face unconscious bias, labels, power struggles, and harassment, simply because of their gender. They consciously and constantly navigate these challenges by positioning themselves to be seen and heard as team leaders, balancing aspects of their outward appearance and demeanor, embracing their differences and avoiding assimilation to masculine stereotypes of physician leaders, working to manage self-doubt, and coaching their female learners in these areas.

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