Overcoming barriers to promotion for women and underrepresented in medicine faculty in academic emergency medicine

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Abstract
Equity in the promotion of women and underrepresented minorities (URiM) is essential for the advancement of academic emergency medicine and the specialty as a whole. Forward-thinking healthcare organizations can best position themselves to optimally care for an increasingly diverse patient population and mentor trainees by championing increased diversity in senior faculty ranks, leadership, and governance roles. This article explores several potential solutions to addressing inequities that hinder the advancement of women and URiM faculty. It is intended to complement the recently approved American College of Emergency Physicians (ACEP) policy statement.
aimed at overcoming barriers to promotion of women and URiM faculty in academic emergency medicine. This policy statement was jointly released and supported by the Society for Academic Emergency Medicine (SAEM), American Academy of Emergency Medicine (AAEM), and the Association of Academic Chairs of Emergency Medicine (AACEM).

KEYWORDS
minority, promotion, underrepresented, URiM, women

1 | INTRODUCTION

The American College of Emergency Physicians (ACEP) is committed to championing diverse, equitable, and inclusive workplaces that respect and support emergency physicians in their careers and promotion. Although "diversity" is challenging to define, it includes factors such as gender, race, ethnicity, sexual orientation and identity, physical abilities, religion, nationality, and socioeconomic background. The term underrepresented in medicine (URiM) describes racial and ethnic populations that are underrepresented in the medical profession relative to their numbers in the general population.1

Although promotion can be seen as a celebratory moment in the individual career of an academic physician, it also affords an opportunity to be considered for leadership roles that are traditionally only open to faculty of senior rank. Increasing diversity in healthcare leadership and governance is one way that organizations can better address inequities faced by women and underrepresented minorities and improve health care delivery to patients with diverse values, beliefs, and backgrounds.2 Despite equal gender representation at the medical school level, women currently represent just 43% of full time clinical medical school faculty and 38% of emergency medicine faculty.3,4 Thirty-one percent of associate professors in emergency medicine and 19% of full professors are women.4 URiM faculty face similar challenges. Black, Hispanic, and Native American doctors continue to be underrepresented among emergency medicine resident trainees with no substantial increase in the past 20 years.5 URiM faculty make up 36% of the US population, but they make up only 10% of full time clinical medical school faculty and 10% of emergency medicine faculty.5,7 Seven percent of associate professors and less than 6% of full professors in emergency medicine are URiM, making equity in promotion even more critical in this cohort.8

Yet, equitable promotion and academic advancement of women and URiM faculty require ongoing efforts and initiatives beyond the recruitment of a diverse workforce. This paper examines barriers to promotion that disproportionately affect women and URiM emergency medicine faculty. We suggest ways that individuals, departments, institutions, and emergency medicine organizations can help women and URiM faculty overcome barriers to academic advancement.

1.1 | Pairing faculty with a faculty advocate

Women and URiM faculty are more likely to achieve promotion if they understand the granular details of the promotion process and have a clear plan for promotion. Open discussion regarding promotion should be initiated early in the recruitment process and revisited at regular intervals after hiring.9,10 The department and faculty member should be in sync regarding the value, criteria, and expected timelines for promotion. The Academy for Women in Academic Emergency Medicine (AWAEM)'s Toolkit provides resources for departments to assist faculty in meeting promotion metrics.11

New faculty should be paired with a faculty advocate, a senior faculty member who can explain the benefits of promotion and help create a roadmap of activities that are valued by appointment, promotion, and tenure (APT) committees. Additionally, new faculty should be encouraged by their faculty advocate to attend faculty development sessions related to the institutional promotions process, which may include topics such as preparation of curriculum vitae, teaching, and service portfolios. Some qualified women and URiM faculty may not seek promotion on their own because of unfounded concerns regarding promotion readiness. One role of the faculty advocate is to allay concerns worthy faculty may have regarding their merits and help them verbalize desires for promotion to department leadership.

1.2 | Cultivating a mentorship network

Mentorship is a critical element of successful recruitment, retention, and academic advancement of women and URiM faculty. It is invaluable to personal and professional development. Mentorship has been associated with higher career satisfaction, increased scholarly productivity, successful promotion, and a desire to mentor others in turn.12-15 Women and URiM faculty, however, are less likely to have a mentor compared to male or non-URiM colleagues.14,15 This may be because of the relative underrepresentation of female and URiM faculty in senior positions.14,15

Solutions can be based on systems and networks aimed at enhancing or redesigning the existing frameworks of support. At the departmental level, resources should be allocated to fund mentorship and
Mitigating the “minority tax” and other disparities

Many URIM faculty note a misalignment between their distinctive experiences and personal goals and the priorities of their institutions. Several key terms and concepts have been used in the literature to describe the basis of these misalignments. One such term is the “distance traveled,” a concept that highlights differences (often related to socioeconomic factors) among some URIM faculty in the path to their present position. Examples of this include extended time to earn a college degree or delayed start of medical school because personal financial obligations. Another term, the “gratitude tax” is the perception of indebtedness that URIM faculty may have towards an institution for the opportunity given to become a physician; the debt is paid by remaining at the institution despite promising opportunities for advancement elsewhere. The “minority tax” refers to extra responsibilities related to diversity committees, community efforts, and mentorship of URIM students. These commitments rarely come with dedicated time or resources. This curtails the time to pursue critical scholarly work that is often more valued in the promotion process. The additive effects of distance traveled, gratitude tax, and the minority tax can delay advancement to senior faculty rank.

“Power distance” is defined as the extent to which a person with lower perceived power in an institution or organization expects and accepts that power is distributed unequally. URIM faculty may not challenge department leaders out of fear or inconvenience. When URIM numbers are so few, “the goal is survival.” The consequences of not being able to share dissenting opinions may include feelings of isolation and disengagement with the institution.

As a result of these “taxes” and barriers, URIM faculty can feel overburdened, undervalued, and demoralized. Recommendations for intervention include familiarizing leadership with the above concepts and allocating more resources and time to individual URIM faculty who have had a longer “distance traveled.” Effort can be made to create a workplace culture where faculties feel safe to voice dissenting opinions. During the creation of project teams, the selection of more than one URIM faculty or woman can alleviate additional pressures that stem from fears that failure will reinforce preexisting stereotypes or prejudices. On a national level, professional development groups (PDGs) or specialized academies can help alleviate feelings of isolation. Amplification of achievements by department leadership, colleagues, and professional groups can contribute to a sense of inclusion. Awards committees should track the nominations of deserving URIM and women faculty for departmental, institutional, and national awards. This allows for equity in recognition of accomplishments.

Bridging the scholarship and research gap

Federally funded research grant awards are often heavily weighted as a benchmark achievement used by promotion committees yet are
less frequently awarded to URiM faculty. A 2011 study by Ginther et al., published in Science, reported significant differences in the R01 funding rate of African American or Black scientists (AA/B) when compared to White peers. AA/B scientists were less likely to be awarded an R01 (16.1% vs 23.9%) even after controlling for educational background, country of origin, training, previous research awards, publication record, and employer characteristics. Of the 40,069 individuals included in the study, only 1.5% identified as AA/B versus 3.3% Hispanic, 13.5% Asian, and 71% White. A more recent analysis of the data found that African-American women and Asian-American women were also less likely to receive R01 awards, suggesting a possible additive disadvantage for minority women of color.

In response to the study by Ginther et al., the NIH launched a 10-year, $500 million effort to recruit, train, and mentor URiM researchers. A decade later, however, the funding gap persists. A 2020 study by Erosheva et al. found that for R01 applications between 2014 and 2016, the overall award rate for AA/B applicants was ∼55% that of White applicants. Although race, ethnicity, and gender are not explicit components of the R01 application, reviewers are able to see the names of the applicants and information about their publications.

A possible reason for differences in funding is unconscious bias—social stereotypes about certain groups of people that individuals form outside their own conscious awareness. Unconscious bias training, double-blinded review, and panel diversity during the grant review process may improve the funding success of women and URiM faculty. Other areas that may contribute to the funding gap include research topic choice, differences in mentorship, size of professional networks, and research productivity. For example, AA/B scientists tend to propose research at the community and population level (eg, health disparities and patient-focused interventions), which are funded at lower rates than topics at a fundamental and mechanistic level (eg, on the level of neurons). This suggests that the NIH’s research priorities may inadvertently exclude well-qualified women and URiM researchers.

Like grant awards, peer review activities and manuscript authorship factor into promotion decisions. The literature on URiM faculty participation in emergency medicine peer review activities and first authorship is scant. With respect to women, a 2018 study examining publications in the Annals of EM found that women comprised 31% of reviewers, 24% of the editorial board, and only one of the top 10 highest editorial positions. Previous literature has shown that the percentage of emergency medicine women first authors has been representative of the percentage of women in academic emergency medicine.

The coronavirus disease (COVID-19) pandemic, however, may be creating gender gaps in publication. Before the pandemic, married or partnered female physician-researchers reported spending 8.5 more hours per week on parenting and domestic activities in comparison to their male physician-researcher counterparts. The work of this “second shift,” or labor performed at home outside of professional activities, has increased for both men and women during the COVID-19 pandemic but has impacted women more because of the uneven distribution of labor. In a more recent study, a preliminary analysis using author-name recognition of pre-print publications has shown that across disciplines, the proportion of women first authors has decreased during the pandemic and women are also initiating fewer research projects.

Promotion to associate and full professor depends highly on a strong national and international reputation, at least partially based on scholarship. Our specialty and society should strive to achieve equity of opportunity in terms of manuscript authorship, peer review, and editorial board membership. Departments and institutions can assist women and URiM faculty by providing targeted funding opportunities for pilot studies, providing scholarships for grant writing workshops, and additional mentorship and sponsorship. Finally, departments and institutions can adopt processes that lighten the load of the “second shift,” such as extended hours and emergency childcare services and/or subsidies for faculty with increased time requirements for child, family, and eldercare.

1.5 Creating leadership and development opportunities

In 2015, McKinsey & Company and LeanIn.Org launched a study of diversity in the workplace, gathering data from 600 companies. The study found that the biggest obstacle to climbing to a leadership position occurred early on; women and minority employees failed to advance because they could not step up onto the first rung of initial managerial positions. This “broken rung” impacted the organization by decreasing the pool of women and minority candidates at every subsequent level of leadership. Similar processes may be in effect in academic medicine.

To create a talent pipeline of qualified women and URiM candidates, careful attention must be applied to the search and hire of women and URiM faculty at all levels of leadership and management (eg, assistant program directors and assistant medical directors). Search committees should be diverse and inclusive. They should be required to complete unconscious bias training and use transparent, objective criteria to evaluate candidates. The McKinsey study noted that in companies with smaller gender disparities in representation, half of the employees had received unconscious bias training in the last year compared to a quarter of employees in companies with wider disparities.

Companies that were effective in repairing the “broken rung” (1) tracked and publicized diversity metrics and goals, (2) set targets for representation in first-level managerial positions, (3) held senior leaders accountable for the hire, promotion, retention, training, and mentorship of women and URiM employees, and (4) incentivized leadership through rewards.

Fixing the “broken rung” alone is not enough: only 18% of medical school deans are women and 12% are minorities. Without a major shift in the status quo, it will take 50 years to reach gender parity in academic medicine. Term limits for department chairs, deans, and other high-level leadership roles can accelerate diversification. This idea has been embraced by the NIH, which recently announced 12-year term limits for its tenured intramural laboratory and branch chiefs to
create new opportunities for women and URiM leaders. Planned turnover after a reasonable term length allows for a balance between continuity and the innovation that comes with diverse leadership.41

### 1.6 Increasing equity in the promotion process

A fair promotion process requires a holistic review of applicants and their accomplishments. Decision making for promotion and tenure has been described as a balance between rules and goals.42 The "rules" may require that the candidate has a certain number of papers, lectures, and courses. The "goals" are more intangible and take into consideration an applicant's qualities such as innovation, leadership, and service. APT committees should be composed of diverse faculty who recognize that career trajectories vary between faculties. Committee members should also receive unconscious bias training.43-45

APT committees rely heavily on letters of support written by faculty at or above the level of promotion. Prior studies looking at differences in letters for men and women have noted differences in length and adjectives used.46,47 Women are more often described by their work ethic rather than their ability or talent.47 These differences have the potential to adversely affect a committee's decisions. Disseminating best practices for promotion letters can prompt letter writers to avoid gender bias (see Table 1). Box 1 provides examples of biased and equitably written letters. Professional groups can play a crucial role via the formation of letter writer bureaus that can assist in finding letter writers who are aware of these issues for women and URiM faculty.

### 1.7 Embracing a culture of inclusivity

Creating a culture of inclusivity is essential to ensuring the advancement of women and URiM faculty in academic medicine. The formal culture is reflected by the mission, vision, and core values of a department and must align with the varying professional needs of all faculties. The informal culture of the department, which is felt and experienced by faculty members, must also align with the formal culture. For example, a department may present itself as valuing diversity and inclusion without reflecting this value in the composition of its leadership. Transparent processes for recruitment, promotion, and compensation all support a culture of inclusivity. Policies that address gender and URiM faculty’s specific needs, including clear policies surrounding harassment

### Table 1 Best practices for avoiding gender-bias in letter writing

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<thead>
<tr>
<th>Bias</th>
<th>Suggested best practice</th>
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<tbody>
<tr>
<td>Letters for male applicants tend to be longer</td>
<td>Pay attention to length; address competencies and accomplishments completely</td>
</tr>
<tr>
<td>Women and URiM often referred to by their first name</td>
<td>Use Dr. XX in all letters (even if you know the person very well)</td>
</tr>
<tr>
<td>Women are less likely to be described with agentic (male) characteristics</td>
<td>Balance descriptions of women as caring, compassionate, selfless with agentic terms, for example, capable, talented</td>
</tr>
<tr>
<td>Letters for women often have more &quot;doubt-raisers&quot; which can negatively influence the reader, and detract from positive descriptions</td>
<td>Avoid doubt-raising caveats such as &quot;while she does not have many peer-reviewed articles....&quot; or &quot;while she started her academic career somewhat later....&quot; Just state the facts</td>
</tr>
<tr>
<td>Irrelevant information that does not apply to the skills, traits valued in the current position can detract from the letter writer’s endorsement</td>
<td>Avoid describing interests and hobbies that do not apply to the skills or traits valued</td>
</tr>
<tr>
<td>Letters for men often spend more time describing research and academic accomplishments</td>
<td>Be sure to describe important research, publications, national and international speaking invitations</td>
</tr>
<tr>
<td>Letters for women often emphasize their effort more than their ability</td>
<td>Avoid grindstone terms such as &quot;hard-working, tireless&quot; Emphasize talents and unique accomplishments</td>
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<table>
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<tr>
<th>Box 1. Examples of biased and equitably written letters</th>
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<tr>
<td>• Example of letter of recommendation with gender bias:</td>
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<tr>
<td>• Example of letter of recommendation with equitable language:</td>
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<tr>
<td>• Dr. Smith is a talented educator [use of title and agentic terms]. She took a leadership role in the development of a national education program on substance abuse [emphasizes leadership and specific accomplishment]. This program has been adopted by 10 health systems across the county [cites impact of faculty member’s contribution]. In addition, she was invited to present at the American College of Emergency Physicians (ACEP) national conference for an audience of 500 hundred physicians, as well as at the International Conference on Emergency Medicine (EM). Dr. Smith is first or second author on five peer-reviewed articles on substance abuse published in high-impact journals in the last 5 years. She has also presented seven research abstracts at national conferences [specifically lists important presentations and scholarly activities without qualifiers or caveats].</td>
</tr>
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and discrimination, may prompt departments to examine department-
specific barriers and solutions.

2 | PROCESSES

Implementing transparent metrics and tracking at the departmental
and institutional level can lead to more equitable processes.59,60 Public-
licizing metrics can drive measurable change. Making information publicly
available signals that equity is a priority and a core value of the
organization. An individual or task force with administrative support
be designated to track rates of promotion, percentage of leadership
roles held by women and URiM faculty, relative attrition rates,
and reasons for departure. Adoption of transparent compensation rubrics, including indirect compensation (eg, buy down, administrative
support, funding for specific roles/initiatives, travel/CME allocation,
and bonuses), and audits of salaries with subsequent adjustment also
address potentially hidden biases.

2.1 | Policies

Early and mid-career women are more likely to have family responsi-
bilities and life events that necessitate reducing work responsibilities or temporarily stepping away from academic priorities, thus decreasing
academic productivity.31 For example, a study by Ly et al.52 showed
that women spent 100.2 more minutes per day on childcare than their
male counterparts. “Stop the clock” policies are essential at institu-
tions with deadlines for promotion and tenure to ensure parity for early
and mid-career women. Departments that do not have specific policies
or practices related to pregnancy-related scheduling (eg, reduction or
elimination of night shifts in the third trimester), family leave, lactation,
or graduated return to work, may benefit from a task force to review
needs and existing policies.53,54

Even later in their careers, women faculty may experience a dispro-
portionate load of domestic responsibility. A total of 61% of elderly
caregivers are women; women may find themselves in the “sandwich
 generation,” caring simultaneously for children and aging parents.55
Workplace and workforce policies that address gender-specific needs
lead to enhanced job satisfaction.56

2.2 | Harassment and discrimination

Harassment and discrimination occur in many forms, some more obvi-
ous than others. An environment where harassment and discrimina-
tion are allowed to exist does not create a culture where diverse fac-
ulty can flourish. There are multiple strategies departments can employ
to address these issues. Departments can utilize validated tools to
anonymously survey employees.57 Developing policies with realistic
reporting mechanisms can alleviate fear of retaliation, particularly if
the policies incorporate transparency with regards to the investigative
process, options for perpetrator repercussions, and protection for the
individual(s) who have been targeted. Role modeling of senior leader-
ship, routine training focused on bystander interventions, and robust
reporting mechanisms signal to faculty that the department upholds a
zero-tolerance policy.

Creating a culture of inclusivity requires deep and critical reflec-
tion on the existing culture, policies, and processes of the depart-
ment. Although it is important to incorporate the voices of women and
URiM faculty, it is also important to ensure that they are not solely
tasked with the responsibility of improving workplace culture. This is
the responsibility of departmental leadership in leading the way and
including all faculty members in creating and maintaining a fair and
equitable workplace.

3 | CONCLUSION

Championing diversity requires more than a shift in emergency physi-
cian workforce demographics. The simple recruitment of a diverse
workforce does not ensure the advancement of women and URiM faculty to higher academic ranks or leadership positions. Achiev-
ing excellence from a diverse workforce requires that their life
experiences and priorities be heard, valued, respected, and contin-
ually acted on to improve learning, patient care, and organizational
processes.

Individual, departmental, institutional, and societal factors all con-
tribute to women and URiM faculty lagging in academic promotion. To
overcome these barriers, individuals, organizations, and the specialty of
emergency medicine must imagine and create new possibilities, poli-
cies, and priorities. Supporting and promoting women and URiM fac-
ulty may take the form of faculty development initiatives to improve
individual knowledge, skills, and mentorship networks, but may also
require changes to policies and promotion requirements to value a
range of contributions from faculty members.

By publishing a policy statement acknowledging barriers to the
promotion of women and URiM faculty and describing poten-
tial solutions, ACEP is demonstrating its commitment to a vision
of emergency medicine that includes fair advancement and lead-
ership roles for women and URiM emergency medicine physi-
cians (see full ACEP policy statement here: https://www.acep.org/
patient-care/policy-statements/overcoming-barriers-to-promotion-
of-women-and-underrepresented-in-medicine-urim-faculty-in-
academic-emergency-medicine/). Creating and maintaining a culture
of inclusion will benefit current and future physicians, other healthcare
professionals, and the patients we serve.

CONFLICTS OF INTEREST

JF is a member of the ACEP BOD. MDL and AEP are members of the
SAEM BOD. ALG is the Chair of ACEP Diversity, Inclusion, and Health
Section. AAD was a prior member of the PACEP BOD.

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