Defining the Ideal Qualities of Mentorship: A Qualitative Analysis of the Characteristics of Outstanding Mentors

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ABSTRACT

OBJECTIVE: The study’s objective was to identify the important qualities of outstanding mentors as described by their mentees’ letters of nomination for a prestigious lifetime achievement award in mentorship.

METHODS: The Lifetime Achievement in Mentorship Award at the University of California, San Francisco, recognizes a faculty member who has demonstrated sustained mentoring excellence in the academic health sciences. Recommendation letters in support of the top 10 nominees in 2008 (n = 53 letters) were analyzed using grounded theory and constant comparative technique until thematic saturation was achieved.

RESULTS: In 2008, 29 faculty members (of >1000 eligible senior faculty) were nominated. Nominees were 53 to 78 years old, and 30% were women. The nominees represented 4 schools (Medicine, Nursing, Pharmacy and Dentistry) and 22 departments/divisions. Five themes emerged from the analysis. Outstanding mentors: 1) exhibit admirable personal qualities, including enthusiasm, compassion, and selflessness; 2) act as a career guide, offering a vision but purposefully tailoring support to each mentee; 3) make strong time commitments with regular, frequent, and high-quality meetings; 4) support personal/professional balance; and 5) leave a legacy of how to be a good mentor through role modeling and instituting policies that set global expectations and standards for mentorship.

CONCLUSION: This is the first study to describe the qualities of admired mentors by analyzing nomination letters for a prestigious mentoring award. Our results give new insight into how mentors foster the careers of junior faculty in the academic health sciences. The results can guide academic leaders on how to train and evaluate mentors.

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KEYWORDS: Academic medical centers; Faculty; Mentees; Mentors; Program development

Mentorship is a critical component of success in the academic health sciences. Faculty and trainees who identify mentors are more likely to be promoted,1-4 are more productive,5-8 and publish more often.4,7,9,10 During their career, mentored physicians are more likely to obtain grant support,10-12 have higher retention at their academic insti-

Funding: There are no funding sources to report, and no authors received pharmaceutical industry funds for the preparation of this article or any related research.

Conflict of Interest: none.

Authorship: All authors had access to the data and played a role in writing this manuscript.

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0002-9343/$ -see front matter © 2011 Elsevier Inc. All rights reserved.
doi:10.1016/j.amjmed.2010.12.007
sonal, relational, and professional,\textsuperscript{18} which helps frame a
general discussion about mentoring but reveals an absence in
the literature of a qualitative description from the mentees of
mentors who have been recognized as outstanding. In this
context, our aim was to to identify the key characteristics of
outstanding mentors from the per-

**MATERIALS AND METHODS**

**Study Population**
The University of California, San Francisco (UCSF), established a
faculty mentoring program in 2006 to support the recruitment and re-
tention of faculty, to increase diver-
sity through improved mentoring of
underrepresented faculty, and to im-
prove faculty career satisfaction and
success.\textsuperscript{16} In 2007, the first Lifetime
Achievement in Mentoring Award
was established to recognize senior
faculty members who demonstrate
long-term commitment to and ex-

**RESULTS**

**Demographics**
Twenty-nine faculty members
(of >1000 eligible faculty at the As-

**Characteristics of Outstanding Mentors: Five Themes**

Five themes emerged from the analysis of the letters of
recommendation in support of these outstanding mentors: 1) admirable
characteristics, 2) how mentors act as career
guides, 3) strength of mentor’s time commitment, 4) support
of personal/professional balance, and 5) leaving a legacy of
mentoring.

**Theme 1: Admireable Characteristics.** Mentees described
the characteristics and qualities of their outstanding mentors
in a variety of ways (Table 1). These characteristics fell into
2 descriptive categories: 1) personal qualities that lie at the
core of the mentor’s identity and 2) professional traits that
relate to success in work-related activities.

Admireable personal qualities included descriptions of out-
going and interactive personalities (brilliant, engaging, en-
thusiastic, inspiring, passionate, warm), kindness (caring, com-
passionate, generous, gentle, empathic), and justness (ethical,

**Data Analysis**
The letters were analyzed using a grounded theory ap-

omatic saturation was achieved after 43 letters. Discrepancies
in coding were discussed and resolved. A third investigator
(MDF) checked the coded letters for accuracy. This study
qualified for exemption by the UCSF Committee on Human
Research.

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**Table 1**

<table>
<thead>
<tr>
<th>Themes</th>
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<tbody>
<tr>
<td><strong>Nominees for a Lifetime Achievement Award</strong></td>
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<tr>
<td><strong>Outstanding mentors exhibit admirable personal qualities, act as career guides, make strong time commitments, support personal/professional balance, and leave a legacy of mentoring.</strong></td>
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<tr>
<td><strong>Identified themes can be used to build mentor training programs and can serve as a benchmark for mentor feedback and evaluation.</strong></td>
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</table>
“Equally impressive is the selflessness that [she] brings to her mentorship. She makes little distinction between projects on which she is or is not a co-author, or between fellows or faculty with whom she has a close or distant mentoring relationship for research... for example, she has without hesitation provided me many hours of thoughtful advice on my papers and grants from which she will receive no professional recognition or benefit.”

Mentees also gave high praise to their mentors for characteristics that describe their professional skills (Table 1). The most common descriptions included collaborative, intellectual, skilled clinician, and teacher. As one mentee wrote,

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Admirable Characteristics of Outstanding Mentors</th>
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<tr>
<td><strong>Personal</strong></td>
<td>Brilliant, Calm, Caring, Compassionate, Empathic, Engaging, Enthusiastic, Ethical, Fair, Generous, Gentle, Honest, Humble, Humorous, Insightful, Inspiring, Loyal, Optimistic, Passionate, Respectful, Selfless, Wise</td>
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<tr>
<td><strong>Professional</strong></td>
<td>Accessible, Articulate, Collaborative, Collegial, Communicative (verbal and written), Comprehensive, Intellectual, Knowledgeable, Love of research and science, Skilled clinician, Skilled diagnostician, Talented, Teacher, Unconditional, Visionary</td>
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“[He] was like a Solid Rocket Booster, ensuring that I achieved the lift and trajectory necessary to make it into orbit. But rather than dropping off at that point, he has remained a constant feature in my life, much like Mission control, monitoring my progress, offering incredibly helpful advice on a regular basis, and serving as a sounding board, editor, or strategist, depending on what I needed.”

Mentees wrote in great detail about the ways in which their mentors offered guidance and support. Table 2 contains a full list of these actions. Mentors described how their mentors offered a vision and guided them in a purposeful but unobtrusive manner. Through this, mentors were able to identify their mentees’ potential, set high standards, and provide a vision. One mentee summarized this by writing the following:

“[He] continues to accurately assess my skills, knowledge, and attitudes, and to challenge me to seek higher personal achievement than I would on my own. So, [he] is

<table>
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<tr>
<th>Table 2</th>
<th>How Mentors Guide Their Mentees’ Careers</th>
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<tr>
<td><strong>Creating a Plan</strong></td>
<td>Identify mentee’s potential, See big picture, Give a vision, Set high standards, Help to create and prioritize a plan, Offer unique perspective</td>
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<tr>
<td><strong>Tailor to Individual Mentee</strong></td>
<td>Assess who the person is and how best to serve him/her, Help mentees find their own way (“leading not directing”), Draw out best in mentee, Allow mentee to fail</td>
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<tr>
<td><strong>Provide Wide Breadth of Opportunities</strong></td>
<td>Introduce to key contacts/collaborators, Attention to mentees’ promotion, Give recognition, eg, paper authorship, committees, conferences, organizations, Put mentees’ careers before their own</td>
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<tr>
<td><strong>Concrete Activities</strong></td>
<td>Planning and carrying out studies, Grant writing, Analyzing results, teach to think critically, Read, give feedback, and revise manuscripts, Advise on preparing presentations, Material support (salary, research funds), Curriculum vitae preparation, Communication, Open and 2-way, Frank with opinions</td>
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*More common words in bold.*
Table 3  Example Quotes Describing Mentors’ Strong Commitment of Time

<table>
<thead>
<tr>
<th>Frequency</th>
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<tr>
<td>“[My mentor] and I have a regularly scheduled meeting for 1 hour each week.”</td>
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<td>“She makes it her priority to be available for meetings on a regular basis, and goes out of her way to adjust her schedule if her attention is needed urgently.”</td>
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<tr>
<th>Availability</th>
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<tr>
<td>“[He] is always accessible to anyone who sought him out for help. He had an open-door policy. Even though he was extremely busy, he always found time to talk with me.”</td>
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<tr>
<td>“Despite the multitude of responsibilities he had, there was never a time he was too busy to meet with me regardless of how trivial the matter may be that concerned me.”</td>
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<tr>
<th>Duration</th>
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<td>“In addition, during the 25 years since I left UCSF, [he] has stayed in touch with me providing . . . support and guidance.”</td>
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<th>Quality</th>
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<tr>
<td>“As busy as his days are, I always feel as though my career and concerns are the only thing on [his] mind during our regular meetings.”</td>
</tr>
<tr>
<td>“He is extraordinarily committed to his mentees, not only in the time that he devotes to them but in the focus and attention with which he uses that time . . . he is deeply present and focused [during] our interaction.”</td>
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Once the mentees’ needs were assessed, mentors provided support where it was needed:

“He knows what each plant in his garden needs to thrive: this one a little more sun, this one more fertilizer, this one more water . . . I think this is a good metaphor for his mentoring. He takes the same careful approach with ‘growing’ his fellows and takes great joy in watching them bloom when mature.”

Mentors balanced this nurturance with a hands-off approach that could be described as guided independence, providing support at key moments but relinquishing ultimate control to their mentees. One mentee wrote, “As a mentor, [he] provided direction and opportunity, allowing me to chart my own path, but at the same time guiding me along the way.”

Many mentees described crucial guidance when developing professional contacts and providing key academic opportunities that enhanced their profile within the local, national, and international stage. Finally, mentees detailed the various concrete activities that mentors afforded toward research, writing, material support, and communication.

Theme 3: Strength Of Time Commitment. The strength of the commitment that mentors shared with their mentees is the third theme in these successful relationships. There are 4 aspects of the relationships that made the time commitments strong: the frequency, availability, duration, and quality. For example, one mentee wrote,” [He] is always accessible to anyone who sought him out for help. He had an open-door policy. Even though he was extremely busy, he always found time to talk with me.” Table 3 contains representative quotes from the mentees for each of these subthemes.

Mentees appreciated frequent and regular contact with their mentors. This included both scheduled, recurring meetings and an open-door policy for issues that came up along the way. Mentors described how their mentors’ availability was crucial in the success of the relationship. The longevity of outstanding mentors’ relationships with their mentees was commented on in many of the mentee letters. The conclusion of a research project or training period did not mark the end of mentor–mentee relationships. Mentors often provided guidance over decades despite changes in area of research or a move to a new academic institution. Finally, the quality of the time that mentors gave to their mentees was of equal or more value than the quantity.

Theme 4: Support For Personal/Professional Balance. Although the primary purpose of the mentor–mentee relationship focused on providing support to maximize success in an academic career, the integration of personal life by mentors emerged as an important fourth theme. The most admired mentors understood that a key aspect of being a successful faculty member was to strive for balance between one’s professional and personal life. Mentees looked to their mentors as role models for how to integrate personal life with professional work. Successful mentors provided guidance on leading a fulfilled life at home; in addition, mentors offered support to mentees during periods of stress or personal struggle. Table 4 lists examples of quotes regarding this theme, but may be summarized by the mentee who wrote:

“[He] has shown exceptional mentoring to trainees in their growth and development not only toward scientific or clinical career development but also in personal areas of growth, such as child rearing or balancing family with work.”

“Through our discussions regarding life and how to maintain balance and perspective. [He] has always stressed that a career is only one aspect of life and that family and friends should always take precedent over anything professional.”

“I feel his true gift as a mentor was serving as a role model for how to live life. [He] always has a Zen-like balance about him. Between endless meetings, his lunch-time jog, and taking frequent calls from his daughters, [he] always found time to give to his colleagues, residents, and students. It speaks volumes about [him] that on more than one occasion my fellow residents told me that they sought out [his] advice in times of distress.”

Table 4  Example Quotes Describing Mentors’ Support of Professional/Personal Balance

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“He has his door open and welcomes dialogue about patient care, research or the challenges of balancing family with work, raising children, and marriage. He truly supports those whom he mentors in all aspects of life!”

**Theme 5: Legacy Of Mentoring.** The final theme is the legacy of mentoring created by outstanding mentors when their mentees become future generations of mentors. Most of the faculty who wrote letters of nomination for this award were at the Associate Professor rank or higher. Mentees reflected on their experience being mentored and how it shaped their own skills as mentors. Many letters of nomination described this transition. For example, “[He] provided the example that I attempt to emulate as I begin to mentor my own students, fellows, and junior faculty.” Through this role modeling and direct teaching, mentees described how mentors created an exponential legacy of mentoring. In addition, mentees described how their mentors acted as a direct guide and helped the mentee when it came time for them to become a mentor.

Many mentors also affected mentorship by influencing other faculty members. Some created an expectation and culture of supportive mentoring within their divisions, whereas others instituted mentoring policies to foster improved mentoring. Mentees described multiple ways in which mentors changed the environment to value and be more conducive to mentorship. For example, one mentee wrote, “(He) created a culture in the Division of X that parallels the tremendous skills he brings to his one-on-one mentorships. Through his leadership, program development, and role modeling, the division is infused with a spirit of collaboration with and dedication to one’s peers.”

**DISCUSSION**

In the process of identifying the qualities of outstanding mentors, we focused on the perspective of a key stakeholder in the mentoring relationship—the mentee. Mentors who were nominated for a prestigious lifetime achievement in mentoring award exemplify the ideal qualities of mentorship. The letters of recommendation that their mentees wrote offer a unique and rich descriptive view into how their mentors have successfully provided support and guidance to achieve professional and personal success in the academic health sciences.

Five themes on the ideal qualities of mentorship emerged from our analysis: 1) admirable characteristics of mentors, 2) how mentors serve as career guides, 3) strength of time commitments, 4) support for mentee’s personal/professional balance, and 5) leaving behind a legacy of mentoring. Although there has been burgeoning interest in mentorship in the health sciences over the past few years, little progress has been made in identifying the key characteristics of outstanding mentors, and there is a gap in translating this knowledge into mentor training programs.20-22 By identifying characteristics of outstanding mentors, these results may help to inform mentor development programs and address this key gap. Schools of medicine and others in the academic health sciences face challenges in the recruitment and retention of new faculty,23 making the need for optimization of mentor training even more critical. In studies outside the academic health sciences, high-quality formal mentorship programs were associated with outcomes of job satisfaction and career success.24 The 5 themes identified provide a guide for how to frame mentor training programs and can serve as a benchmark for mentor feedback and evaluation.

It is notable that 62% of mentees who submitted nomination letters were women, whereas only 30% of the outstanding mentor finalists were women. At UCSF, 44% of faculty members are women and only 32.5% were women eligible for the lifetime achievement award (based on rank). This mirrors the 30% of women nominated for the award. The discrepancy in percentage of women writing letters of recommendation compared with the actual nominations reflects the shifting gender demographics of the UCSF faculty because 55% of assistant professors are women. It is also possible that women faculty members were more appreciative of their mentors and more likely to nominate them because they experienced more difficulty finding supportive mentors.

The theme “legacy of mentoring” that outstanding mentors model for their mentees is one that, to our knowledge, has not been described previously in the literature on faculty mentoring in academic medicine. It is not only a novel theme but also an important finding to help motivate mentorship and its training. Mentors can gain satisfaction in knowing that their mentorship activities will not only affect their mentees but also affect future generations of health science academicians. Role modeling and teaching mentorship skills for mentees to become future mentors make mentorship self-sustaining; by encouraging mentors to affect the future of mentorship, the field becomes stronger.

Our findings should be interpreted in the context of their limitations. Participants were based at one institution. Given the qualitative nature of these data, it is not possible to calculate the relative frequency of these behaviors or rank their relative impact on mentees’ careers. In addition, the letters of nomination focus on positive mentoring experiences and may lack relevant information that could be obtained by analyzing poor mentorship relationships. Finally, these letters focus on academic faculty, and it is unclear whether the findings can be applied to mentorship of medical students or physicians in training. Despite these limitations, several strengths of the study include the representation of a diverse population within the academic health sciences (multiple health disciplines and numerous departments and divisions within medicine), a unique population of outstanding mentors, and detailed descriptions by mentees of their mentors’ strengths and actions.
CONCLUSIONS

Our findings identify qualities of outstanding mentors from the most important judge: their mentee. Future directions could include creation and evaluation of mentorship training based on the qualitative themes identified. Similar studies at different institutions or with different mentee populations may also broaden the scope of these findings.

References