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Comparing Preceptor and Student Perceptions on Mentoring Characteristics: An Exploratory Study

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Section: Article

Article Title: Comparing Preceptor and Student Perceptions on Mentoring Characteristics: An Exploratory Study

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Comparing preceptor and student perceptions on mentoring characteristics: An exploratory study.

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Key Points

- No significant differences exist in students and preceptors perceptions of mentoring.
- Preceptors and students value professional and interpersonal attributes of mentorship
- · Gender and ethnicity were not highly rated aspects of mentorship.

Key Words: role models, socialization, role learning

Introduction

Mentors are a key resource for students, particularly as they traverse the

socialization process into their future roles as a practitioner. 1 Mentorship is described as

a process for the informal transmission of knowledge, skills, attitudes, or beliefs between

a more experienced person (mentor) and less experienced person (mentee). ² The

relationship developed between the mentor and mentee is beneficial for role learning, and

although it seems as though the relationship is unilateral it has been described as

reciprocal and mutually beneficial for both parties. 3-5 Due to their supervisory capacity

and the nature of their role, preceptors often serve as mentors for athletic training

students. Mentoring has become a universal practice for facilitating professional growth

and development of students while they are being socialized into their future professional

role. 1-4

Indeed mentoring has been identified as helpful for student development, but new

emerging data suggests mentoring also helps athletic trainers transition into a variety of

roles including the graduate assistant, 6,7 preceptor, 8 doctoral student, 9 and faculty

member. 10 In fact, preceptors who are identified as mentors by students often gain

mentorship into their future roles from their previous supervisors.8 Development into a

preceptor, however seems to take on a much more informal process, whereby student

mentorship in clinical education may be more formalized.^{5,8}

Our understanding of what aspects are valued in a mentoring relationship is well

understood. Broadly speaking, athletic trainers and students appear to value personal

and professional characteristics along with educational dimensions. Personal

characteristics include professionalism, approachability, and accessibility. Professional

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characteristics include the ability to engage the mentee and facilitate growth in knowledge

and skills. 11 Educational dimensions include teaching skills and providing feedback.

However often the information presented is from the perspective of the mentee or mentor

individually, but never from the perspective simultaneously. Gaining this information

concurrently can lead to data triangulation, and provide more substantive information on

what students and preceptors' value in the mentoring relationship that has been deemed

so critical in professional development.¹⁻⁴ Thus, our purpose was to explore and compare

the perspectives of athletic training students and preceptors on what aspects of the

mentoring relationship they value, as previously described by Pitney et al. 12 The following

central questions guided the study:

1. Do athletic training students and preceptors value the same characteristics in

their mentoring relationships?

What values do athletic training students and preceptors perceive to be most

important in mentoring relationships?

Methods

We used an exploratory, mixed-method design ¹³ to discover the perceptions of

our participants in regards to what they value in a mentor. We collected the data

simultaneously, that is the survey instrument and open-ended questions were presented

concurrently, in order to connect our findings to our research questions. 13 Both the survey

and open-ended questions were administered via Qualtrics, an online survey platform,

and participants were asked to respond to the open-ended questions in a written

response. Our research design also reflected collecting the same information (each asked

same set of questions) from both the preceptor and student on the role of mentoring in

clinical education.

Participants

We purposefully recruited preceptors and athletic training students from 7

Commission on Accreditation of Athletic Training Education accredited undergraduate

professional preparation athletic training programs. In total we had 29 participants (12

preceptors, 17 students) complete the study. Our preceptors included 5 males and 7

females, from 4 different National Athletic Trainers' Association districts, were 32±10.5

years of age, with an average of 5±5.0 years experience as a preceptor. The athletic

training students (ATSs) on average were 21 ± 1 years old and represented varying levels

of academic standing (1 sophomore, 9 juniors, 7 seniors). The ATSs (14 female and 3

male) had all completed at least 1 clinical education experience and had been enrolled in

their program an average of 3 ± 1.7 semesters at the time of data collection. All 29

participants indicated they currently had or have had a mentor. Mentors identified by our

sample were those individuals working in the field such as a preceptor, peer athletic

trainer, or supervising athletic trainer.

Instrumentation

Our study used the validated Athletic Training Perceptions of Effective Mentoring

Survey (ATSPME) 12 along with several open-ended questions. The ATSPME has a

Cronbach's a .85 among athletic training students, and scored a .612 (preceptors) and

.806 (students) for our sample group. The 4-part survey directly asks participants if they

have a mentor and whom that mentor is, after reviewing an operational definition. The

operational definitions of mentoring, mentor and mentee were as follows¹²:

Mentoring: A one-one-one relationship whereby an experienced and concerned

individual takes an interest in and actively helps a less experienced individual

develop his/her potential.

Mentor: An experienced individual who is in a relationship with a protege and

assists in his/her development.

Mentee: A less experienced individual who is in a relationship with a mentor and

benefits by developing his/her potential.

The subsequent aspects of the study ask the participants to evaluate mentoring

roles they feel are important. The scale was anchored using a 5-point Likert scale (1 =

strongly disagree to 5 = strongly agree). All open-ended questions were centered on

mentoring roles and valued aspects of the mentoring experience 11,12 as well as

professional development and clinical education. 14,15 We completed a peer review of our

interview guide as well as a pilot study with 2 preceptors and 2 students, prior to launching

our full data collection procedures. The pilot participants age and years of experience

were similar to those of the target population. No changes were made based upon the

pilot, therefore pilot data was included in the analyses.

Data Collection Procedures

We initiated participant recruitment after IRB approval was secured and followed

a purposeful, criterion sampling procedure. ¹⁶ Recruitment of participants was completed

through colleagues who serve in the role of clinical education coordinators. The clinical

coordinators were asked to assist in dissemination of the participant recruitment email.

We requested the clinical coordinators forward an email to those students and preceptors

meeting our inclusion criteria, the email included a link to the survey along with a

description of the study, informed consent and details of participation. Email invitations

were sent to potential participants who were currently engaged in clinical education and

had at least one full year of experience in that role (either as a preceptor or as a student)

during the Fall 2014 academic semester. Agreement to participate and consent was

granted by completion of the online questionnaire (Qualtrics, Provo, UT). We sent two

follow-up emails at one-week and 3-weeks post the original email to aid in data collection.

In total, clinical coordinators reported to the researchers they forwarded the email

invitations and reminders to 45 preceptors and 52 students directly, resulting in a 30%

(n=29/97) response rate.

Data Analysis

Due to our small sample size, we calculated Hedges' g effect size and confidence intervals. Independent sample t tests were performed to compare the mean scores of athletic training students and preceptors perceptions of mentoring as assessed using the ATSPME. Two researchers independently completed multiple readings of the transcripts and coded the qualitative data following a general inductive approach, as described by Thomas. 17 Specifically, we were able to identify emergent themes from the data, using a multiple read through system; a key aspect to inductive analyses. Additionally, general inductive approach allows for the researchers to organically develop codes, permitting for the most emergent themes to surface. 17 We completed this process independently from

inductive coding process.

the analyses performed with the ATSPME data. We labeled our data with codes, then with each read, we were able to group similar concepts together, and only included those codes which were predominant within the final schematics. Each substantive read by the two researchers allowed for a better understanding of the key themes, which were used to match the analyses ran examining the Likert-scaled data from the ATSPME. The triangulation resulted in the findings presented below, and included the discussions of appropriate terminology for the themes, and data included to support them. The mixedmethod design provided an inherent triangulation of the data. This used in combination with multiple researcher triangulation, allowed us to determine creditability of the data. Additionally, using the guidelines of the general inductive approach¹⁷ only themes that represented the majority of our participant's experiences were included in the final presentation. Our coding process determined saturation was met, after completing the

Results

The research questions that guided the study were: 1) Do athletic training students and preceptors value the same characteristics in their mentoring relationships?, and 2) What values do athletic training students and preceptors value in their mentoring relationships? Nine (9) items from the ATSPME had highly rated and comparable scores for both participant groups (Table 1) while three scale items had low rated comparable scores (Table 2). The Hedges' g effect size and confidence intervals can be found in Table 1 and Table 2. No significant differences were found between the mean scores of athletic training students and preceptors' perceptions of mentoring on nine of the 12 © 2016 Human Kinetics, Inc.

questions assessed using the ATSPME. The Hedges' g effect size for these items were

less than 0.39 (Table 1), indicating that non-significant results were not a result of small

sample size. Independent t-tests also revealed the three items that had low comparable

scores (Table 2) were also not statistically different. However, the Hedges' g effect size

indicates there is a possibility that these results were impacted by sample size. The

highest rated items included those based on aspects of support, encouragement,

feedback, advice, brainstorming, role modeling, listening skills, communication and trust.

Relating specifically to the unimportant values, the items of gender and ethnicity

impacting mentoring relationships were the two lowest rated items for both groups.

Our inductive analysis of the open-ended interview questions revealed 3 themes

evident in the participant's responses regarding mentoring relationships, 1) Ongoing

Support, 2) Role Modeling, 3) Interpersonal Characteristics. We present textual data from

our participants' responses to the open-ended interview questions in Table 1 to further

support the findings. The data is located in the final column of the Table.

Discussion

ATSs and preceptors have similar values in characteristics related to mentoring.

The trends identified in the nine highly rated items from the ATSPME aligned with the

qualitative themes that were identified from the open-ended interview questions, noted

similarities exist between the values of the two groups. Preceptors and students

identified many of the same values as important and unimportant for mentoring

relationships. The three themes evident in the participants open-ended interview

questions were linked to the ATSPME in the following way:

1) Ongoing Support: this was described as a mentor's role in supporting the mentee and was done through understanding, encouragement and providing feedback. Four items of support, encouragement, feedback, advice from the ATSPME linked to this theme.

- 2) Role Modeling: participants recounted learning their professional behaviors and attitudes from their mentors and modeling the practices of their mentors. Two items of brainstorming/facilitating ideas and role modeling from the ATSPME linked to this theme.
- 3) Interpersonal Characteristics: these characteristics included communication, specifically listening skills as well as personal attributes such as trust and empathy. There were three items from the ATSPME, listening skills, communication and trust, which linked to this theme.

Our study yielded comparable findings to the work of Pitney et al.⁸ regarding valued characteristics of a mentoring relationship. Gender and ethnicity were not highly rated aspects of mentorship, for our sample, as also found by Pitney et al. ¹² in a sample of athletic training students. ¹² This result indicates these developmental relationships are founded more on professional attributes, rather than identifying demographic characteristics. For our sample, the educational, motivational, relational, and counseling attributes of a mentoring relationship appeared to be more of value than others. This indicates both preceptors and athletic training students value the professional and interpersonal attributes possessed by their mentors. We do however recognize our sample was predominately female, which could explain the lack of differences. Our sample was much like the work of Pitney et al¹² which included more female athletic training students than males.

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Professional attributes include being a good role model, demonstrating

professionalism, being respected as an athletic trainer, and possessing knowledge and

skills that can help facilitate learning for the mentee. 11,12,18 Mentoring is founded on the

premise that learning will take place, thus as Pitney and Ehlers¹¹ determined, there is an

educational aspect of the relationship. Within the educational dimension of mentoring,

there is facilitation of knowledge and skills by engaging the mentee, providing feedback,

and encouraging professional discourse. 11 Brainstorming, feedback, and serving as a

role model were all ranked as important for our sample; aspects of a professional, yet

educational relationship.

The personal characteristics of a mentor can be summarized simply by strong

interpersonal skills, approachability, openness, trust, involvement, and engaging. 11,12,19

Such foundational behaviors have been recommended when selecting preceptors to

supervise students in clinical education 14 and were reported as helpful characteristics for

students engaged in learning. 15 Our sample, much like the work of others examining

mentoring relationships, 11,12 found mentees want a mentor who can be supportive,

communicative, trustworthy, as well as a mentor who provides guidance.

Limitations

Our sample, by design, was small. Using a mixed-methods approach we wanted

to explore the experiences of preceptors and students regarding mentoring relationships.

Previous research has examined these groups independently and often used a single

method approach of either quantitative or qualitative alone. Thus, our results can only

speak to the experiences of our participants, but do yield insights on what the preceptor

and student value in their mentor. Although the ATSMPE survey yielded respectful

Cronbach scores in previous research and with our students, the score was suspect with

the preceptors. A more robust sample will allow for greater comparisons, as well as a

likely improved score for reliability. Also, our sample reflects a small number of males,

and although we did not compare responses based upon gender differences this could

impact our findings. Additionally, we did not report differences with ethnicity and mentors,

yet we did not collect this information to make comparisons.

Clinical Implications

Our data uniquely contributes to the existing literature, in regards to demonstrating

that regardless of the role assumed, valued characteristics in mentoring are similar

between preceptors and ATs. The present study has added further credibility to the

importance of mentors demonstrating professional elements such as role modeling and

professionalism as well as interpersonal skills of openness, availability and trust.

Therefore, any professional in a mentoring role should strive to emulate those

characteristics. Clinical education coordinators need not worry about matching identifying

traits such as gender or ethnicity between preceptors and students but instead should

focus on instructing preceptors to embody the valued professional and interpersonal

traits. Athletic trainers who wish to be mentors should continuously work to personify

these ideal mentoring characteristics.

Future Research

To further this research a larger sample size that incorporates the preceptor and

student to make comparisons in their perceptions of important mentoring characteristics

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needs to be conducted. We also believe future research should be longitudinal including both preceptors and students, as means to observe how the connection can grow and change over the course of the relationship. The premise behind mentoring is that a lifelong relationship is forged; yet most literature only examines the relationship as a reflection of the experience. Thus, tracking the development of mentoring relationships over the course of a semester or academic year could yield further insights. Future studies could examine gender differences among perceptions of mentoring. Future research can continue to examine multiple factors related to mentorship, including but not limited to years of experience engaged as a preceptor, number of students supervised (in total, and concurrently during clinical experience), academic standing, and expectations for mentoring.

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Table 1. Highly Rated Comparable Results

Mentor Question	Student (n = 17)	Preceptor (n = 12)	Hedges' g		Quotes, pseudonyms			
	Likert Scale Mean Score	Likert Scale						
	Picum Score	Mean Score	effect size	Confidence interval				
Theme of Ongoir	Theme of Ongoing Support							
An effective mentor is supportive of a protégé.	4.67±.48 **	4.75±.45	-0.17	-0.91 – 0.57	"Important that young ATs feel supported and have someone who can continue to assist them outside the classroom." – Rose, preceptor "My mentors have been supportive and encouraging of my career goals. Whenever I get discouraged they tell me all the ways that I have been successful and focus on the positives rather than the negatives." – Dakota, student			
An effective mentor encourages a protégé.	4.76±.43 **	4.75±.45	0.02	-0.72 - 0.76	"An ideal mentor is not belittling or condescending, but encouraging." – Ellie, preceptor [An ideal mentor is] "Understanding, tells you what you need to hear without being negative. Encouraging and supportive." – Jamie, student			
An effective mentor gives feedback to a protégé about his/her performance as an athletic training student.	4.62±.74	4.66±.49	-0.06	-0.80 - 0.68	"The mentor provides constructive feedback to the mentee and allows him/her to reflect on it and repeat the skill again." – Katie, preceptor "I have made my skills better and better by working at clinical sites and getting feedback from my mentors." – Quinn, student			

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Mentor Question	Student (n = 17) Likert Scale Mean Score	Preceptor (n = 12) Likert Scale	Hedges' g		Quotes, pseudonyms	
		Mean Score	effect size	Confidence interval		
An effective mentor gives helpful advice.	4.76±.43 **	4.83±.38 **	-0.17	-0.91 – 0.57	"Perhaps they have more experience than you so they can offer sound advice." – Rose, Preceptor "My current mentor has been my favorite mentor during my education because he is constantly challenging me, gives me advice, and constantly gives me positive and negative feedback." – Reese, student	
Theme of Role M	odeling					
An effective mentor should facilitate brainstorming and stimulate	4.65±.58*	4.66±.49	-0.02	-0.77 - 0.73	"[students] need to be involved with clinical decision making processes as much as possible and developing a good relationship with a mentor can help that." – Ben, preceptor	
ideas.					"Having a mentor has helped me to broaden my thoughts about my capabilities and to challenge myself more." – Dakota, student	
An effective mentor is a good role model.	4.76±.43	4.91±.28	-0.39	-1.13 - 0.36	"Having a mentor is great. It helps you strive for qualities that you think are going to make you a great athletic trainer." – Lynn, Preceptor	
					"The mentor should be the role model, example, and proof of success through hard work and perseverance." – Lennon, student	

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Mentor Question Theme of Interp	Student (n = 17) Likert Scale Mean Score	Preceptor (n = 12) Likert Scale Mean Score	effect size Confidence interval		Quotes, pseudonyms
Theme of meet p	er sonar enaraet	er isties			
Effective mentoring requires good listening skills.	4.86±.35	4.75±.45 **	0.27	-0.47 - 1.01	"They should be a good listener and be open to constructive criticism" – Lauren, preceptor "An ideal mentor is someone who is a great listener. They have to be able to listen to your problems and stories and not only be focused on themselves." – Casey, student
An effective mentor needs to be a good communicator.	4.62±.49	4.75±.45 **	-0.27	-1.01 – 0.48	[An ideal mentor is] "Able to listen and communicate with the mentee so he/she can figure out the best way to be a mentor." – Derek, preceptor [An ideal mentor] "Should be open to communication." - Jessie, student
Effective mentoring is based on trust.	4.62±.49	4.58±.51	0.08	-0.66 – 0.82	[An ideal mentor is] "trustworthy" – Mark, preceptor "It is extremely important that the protege can trust their mentor and feel comfortable with them, especially when they need to discuss any problems they might have." – Jessie, student

^{*16} of 17 students answered question

^{**}Although detailed here, some likert data (**5 point scale**, **1 = strongly disagree to 5 = strongly agree**) is also included in one other article published from this study [blinded citations]

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Table 2: Low Rated Comparable Results

	Likert Scale	Mean Score*	Hedges' g	
Mentoring Question	Student n = 17	Preceptor n = 12	Effect size	Confidence interval
Mentoring is more effective when a mentor is the same ethnicity as the protégé.	2.0 ±.94	1.5 ±.66	0.58	-0.17 - 1.33
Mentoring is more effective when the mentor and the protégé are of similar ages.	2.2 ±.87	1.7 ±.96	0.54	-0.22 – 1.29
Mentoring is more effective when a mentor is the same gender.	2.2 ±.99	1.7 ±.65	0.56	-0.19 – 1.31

^{*5} point Likert Scale (1 = strongly disagree, 5 = strongly agree)