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**Participant Experiences in an Employment Mentoring Program for  
College Students with Blindness**

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## Abstract

*Introduction:* Mentors can help college graduates with blindness or visual impairment (B/VI) prepare for and seek employment in their chosen fields by serving as role models and sharing their experiences with mentees. Identifying mentoring activities and discussions most valued by mentees with visual impairment will facilitate the design of future mentoring programs.

*Methods:* A nationwide mentoring program for college students with legal blindness was implemented using an experimental longitudinal research design. Career mentors with legal blindness worked with mentees to develop knowledge and skills related to securing employment. Data includes engagement in job-seeking activities, most helpful aspects of the mentoring relationship, and a participant evaluation of the program.

*Results:* Most mentees indicated that program activities and discussions related to blindness (e.g. disclosure and accommodation planning) and field specific issues (e.g. career exploration and professional development) were of greatest value. Participants evaluated the program positively.

*Discussion:* Mentees valued knowledge, support, encouragement, and career guidance provided by mentors. Mentors valued the opportunity to contribute to the growth of young professionals with B/VI.

*Implications for Practitioners:* Students with B/VI find value in specific aspects of mentoring relationships, and mentors are eager to work with students seeking employment. Topics and activities for future mentoring programs should include: disclosure, accommodations, blindness skills, and job search skills. Level of visual impairment and career field should both be considered when pairing mentors with students with B/VI preparing for employment.

## **Participant Experiences in an Employment Mentoring Program for College Students with Blindness**

Career mentoring allows experienced professionals to share knowledge and advice with young job seekers facing barriers to employment. Mentoring relationships are beneficial for college-aged populations (Campbell & Campbell, 2007; Crisp & Cruz, 2009), and contribute to improving career outcomes (Allen, Eby, Poteet, Lentz, & Lima, 2004; Kram, 1985). Because persons with blindness or visual impairment (B/VI) experience distinct challenges associated with their disability and pursuing competitive employment (Coffey, Coufopoulos, & Kinghom, 2014; Crudden & McBroom, 1999; McDonnall, Zhou, & Crudden, 2013), we developed and implemented a mentoring program for college students with legal blindness. This report presents evaluative feedback from participants.

Mentoring is effective in preparing young adults for successful employment (Whitely, Dougherty, & Dreher, 1991; Burke, Burgess, & Fallon, 2017). Career mentoring has been used as a strategy for improving vocational outcomes for a variety of groups including women (Burke et al., 2017), minorities (Santos & Reigadas, 2002), medical and graduate students (Frei, Stamm, & Beddeberg-Fischer, 2010; Tenenbaum, Crosby, & Gliner, 2001), and persons with disabilities (Daughtry, Gibson, & Abels, 2009). Although mentoring programs are widely used (Eby, Allen, Evans, Ng, & DuBois, 2008), systematic research identifying effective components of mentoring programs is limited (Eller, Lev, & Feurer, 2014).

Empirical evidence supports the positive impact of mentoring on the academic and employment outcomes of young people with disabilities (DuBois, Holloway, Valentine, & Cooper, 2002). Mentoring improves students' self-confidence, social skills, and preparedness for college and employment (Lindsay, Hartman, & Fellin, 2016). Programs with longer duration,

structured activities with a planned curriculum, trained mentors, and contents tailored to program objectives have been particularly successful for students with disabilities (Lindsay et al., 2016).

Mentoring programs for youth with B/VI are often implemented by state and municipal blind services organizations, schools for the blind, and consumer and advocacy groups. For example, the American Foundation for the Blind (AFB) offers a mentoring program through AFB CareerConnect® (2017). Although research on effectiveness of such programs is limited, the findings are promising. One study indicated that mentoring increased career decision-making efficacy, hope for the future, and positive attitudes about blindness among young adults with B/VI (Bell, 2012). However, the literature lacks an evaluation of specific components that make mentoring programs most beneficial for this population.

Some common employment barriers exist across disabilities; however, there are specific issues that are unique to job seekers with B/VI. For example, recommendations for when and how to disclose a disability to potential employers often differ based on disability type (Parry, Rutherford, & Merrier, 1995; Pearson et al., 2003). Additionally, college students with B/VI often lack early work experience (Newman, Wagner, Cameto, & Knokey, 2009; Newman, Wagner, Cameto, Knokey, & Shaver, 2010), limiting their exposure to career role models, job market knowledge, and opportunities to develop soft skills and self-confidence (Carter, Austin, & Trainor, 2011; Vondracek & Porfeli, 2003).

Furthermore, persons with B/VI may experience difficulty navigating job websites and online applications that are not accessible (Lazar, Olalere, & Wentz, 2012). Job seekers with B/VI must also consider and negotiate workplace accommodations during the job application process (Butterfield & Ramseur, 2004; Cleveland, Barnes-Farrell, Ratz, 1997), have good assistive technology skills, and many must overcome transportation barriers (Crudden & McBroom, 1999;

McDonnall & Crudden, 2009). Working with a mentor with experience navigating these unique challenges could be especially beneficial.

Given that mentoring relationships have the potential to reduce employment barriers, it is important to systematically investigate the most beneficial components of career mentoring programs for individuals with B/VI. Future programs will benefit from an evaluation of how to maximize program participation, value, satisfaction, and retention.

This report explicates information from an experimental study of a mentoring program designed for college students with B/VI who are transitioning to employment. As a result of the program, mentees significantly increased their job-seeking assertiveness and showed improvement in career adaptability and self-efficacy (Authors, 2016). This report details the experiences, perspectives, and program evaluation of the mentees and mentors who participated in that study.

An in-depth examination of participant experiences in the program is provided, which includes information about engagement in activities and discussion topics, beneficial aspects of the mentoring relationship, and an evaluation of the program. The following specific research questions were explored: (a) What career preparation activities and discussion topics do mentors and mentees with B/VI engage in during the mentoring process? (b) What specific career preparation activities and discussion topics do mentees find most helpful? (c) What aspects of the mentoring relationship do participants consider most valuable?

## **Method**

### **Design**

In a randomly controlled trial design, college students with legal blindness were assigned to either work with a mentor or to a comparison group. The comparison group was included in the

experimental design for analytic purposes, but is not relevant for the focus of this report; see Authors (2016) for details.

## **Participants**

A nationwide sample included 26 mentees, 26 mentors, and 25 comparison students. Eligibility requirements for students were: legal blindness, U.S. residency, under age 35, graduating from college or graduate school within one year, and seeking employment after graduation. Mentors were legally blind, living in the U.S., and either employed or recently retired. The majority of participants were White (70.59% of students and 80.77% of mentors), and women made up over 60% of the sample. Most students were undergraduates (72.55%), ranging in age from 20-35 ( $M = 25.88$ ,  $SD = 4.35$ ). Mentors ranged in age from 25-63 ( $M = 48.00$ ,  $SD = 10.13$ ), and most had graduate degrees (72.96%), with approximately 81% employed and 19% retired.

## **Materials**

An *Eligibility Survey* collecting demographic information was used to select participants. Mentors and mentees received an *Employment Mentoring Manual* (NRTC, 2016a) that provided information about the benefits of mentoring, codes of conduct, and guidance for successful mentoring relationships. The manual recommended activities and discussion topics such as career planning, blindness skills, and job seeking strategies. A *Resource Sheet for Job Seekers* (NRTC, 2016b) provided a list of websites related to career preparation for individuals with B/VI.

To assess the impact of the mentoring relationship, the following measures were administered at the beginning and end of the study: *Job-Seeking Self-Efficacy*, adapted from the JSSE scale for individuals with physical disabilities (Barlow, Wright, & Cullen, 2002); the

*Assertive Job Hunting Survey* (Becker, 1980); and the *Career Adaptability Scale* (Rottinghaus, Day, & Borgen, 2005). At the end of the study, participants reported their employment status and job search activities. Employed students provided details about their employment and job satisfaction. Participants rated their job satisfaction using adapted versions of the *Abridged Job Descriptive Index* (AJDI; Stanton, Sinar, Balzer, Julian, Thoresen, Aziz...& Smith, 2002), the *Abridged Job in General Scale* (AJIG; Russell, Spitzmuller, Lin, Stanton, Smith, & Ironson, 2004), the *Intention to Quit* (Parra, 1995), and the *Intent to Leave* (O'Reilly, Chatman, Caldwell, 1991) scales.

Data collected in the following measures are the primary focus of this report.

*Monthly Reports* completed by mentees included number of hours spent meeting in person, number of email contacts, and number of phone calls with mentors. These reports allowed researchers to maintain contact with mentees and address communication issues.

*Quarterly Reports* were completed by mentees and mentors. The mentoring relationship was evaluated, and participants reported the activities and topics that were addressed during the prior three months. Topics and activities were listed and participants selected those they engaged in during the quarter including: accommodation planning, orientation & mobility skills, disclosure, social skills, transferring technology skills to a work environment, transportation, career counseling, resume building, interview skills, job search strategies, job shadowing, and networking. Mentees rated the level of helpfulness of each item (i.e. not helpful, somewhat helpful, very helpful, or did not occur). Participants also reported additional discussion topics, activities, or materials mentors shared with mentees.

*Program Satisfaction.* Mentors and mentees rated 28 statements about the mentoring relationship on a 1 (strongly disagree) to 10 (strongly agree) scale. Items addressed the

professional style of the relationship, personal and professional compatibility, logistics (e.g., ease of communication, transportation, and scheduling), and the importance of meeting in person. Participants reported additional information including: intent to remain in contact after the program, sharing of resources, flexibility, commitment, and contributions to the mentoring relationship. Participants provided comments regarding valuable aspects of the mentoring relationship and suggestions for improving the program.

*Early Exit Survey.* Participants who withdrew from the study early responded to a brief questionnaire to explain their reasons for doing so.

## **Procedures**

All materials and measures were provided electronically. National recruitment involving an eligibility survey was used to develop a pool of interested college students and career mentors self-identifying as legally blind. Upon approval for human subjects research from the university's institutional review board, eligible students completed consent forms and were randomly assigned to either work with a mentor (intervention group) or to receive traditional career preparation resources (comparison group). Mentees were matched with mentors based on career interests and location when possible; however, due to difficulty finding local mentors some distance mentoring pairs were created. Mentees received gift cards as incentives to participate, and mentors volunteered their time.

Participants completed a one-hour distance orientation session with research staff who detailed expectations for project involvement, reviewed the *Employment Mentoring Manual*, addressed questions, and provided suggestions for handling potential issues in the mentoring relationship. Mentees completed pre-test measures before the orientation, including: the *Job-Seeking Self-Efficacy* scale, the *Assertive Job Hunting Survey*, and the *Career Adaptability Scale*.

After completing orientation, each mentor pair was introduced via conference call, and staff were available to assist with communication difficulties over the course of the study. Mentees residing within a one hour commute of their mentors were expected to meet in person monthly. Participants reported their contact and activities over the course of the year, and completed final measures at the end of the study.

Analyses were conducted to assess the impact of the program on mentees and mentors. Common themes and notable participant experiences provided in open-ended responses were independently coded by two raters, and inconsistencies were discussed to reach consensus.

Retention rate for the study was exceptionally high (92%). Of the original 26 mentor/mentee pairs, two pairs withdrew from the study due to incompatibility.

## **Results**

### **Contact and Activities with Mentors**

To evaluate engagement in the mentoring process, we measured frequency of contact and participation in activities throughout the study. Data were summated for each mentee over one year. Mentees reported an average of 34.21 ( $SD=29.04$ ) emails and 15.04 ( $SD=12.62$ ) phone contacts with their mentors for the year. Email contact remained fairly stable over the year, while phone contact decreased and plateaued after approximately four months (from more than two calls per month to less than one). Local pairs ( $n = 9$ ) spent an average of 10.89 ( $SD= 11.44$ ) hours meeting in person, however, meetings declined gradually over the year (month one  $M = 1.7$  hours; month 12  $M = 0.44$  hours). Distance pairs ( $n = 15$ ) maintained phone and email communication frequencies comparable to local pairs.

Mentees indicated the activities they engaged in with their mentors each quarter. Table 1 provides the percentages of mentees who engaged in each activity during the study. Mentees

engaged in most activities, with the lowest percentage participating in job shadowing (62%), which is unsurprising given the number of distance pairs. Nearly all pairs discussed disclosure, accommodation planning, networking, resume, career exploration, and application preparation. Additionally, Table 1 provides the percentage of mentees who rated each activity “Very Helpful” in at least one quarterly report. The topics rated “Very Helpful” by the highest number of mentees were disclosure, social skills, career options, accommodation planning, and networking.

Mentees reported additional career related activities in open-ended responses. Most common responses related to career-specific skills ( $n = 14$ ), such as professional feedback or advice on produced works, and field-specific skill development, as in the comment, “My mentor has been very helpful just in listening as I’ve worked through applications and making [career choices]. She’s also been vital in helping me think through my [professional work] in different ways.” A second common theme was early career issues ( $n = 12$ ), with topics including: applying education to a work setting, obtaining professional certifications, and dealing with on-the-job situations. One mentee reported, “[My mentor] gave me numerous helpful [field]-related tips as well as career tips in general that didn’t necessarily have to do with accessibility.”

Mentors shared web resources ( $n = 10$ ) with their mentees, including accessible job search websites, accommodation information, articles, and professional development opportunities. One mentee stated, “My mentor has looked up many things for me like wrongful termination because that was a concern of mine. He also sent me information about guide dogs in the work setting and helped me job search. I have applied to several of the places he found for me.”

Mentors provided other resources and information for blindness skills ( $n = 7$ ), such as disclosure and assistive technology. One mentee noted, “[My mentor] shared a form that she used to introduce herself to [field] professionals. This letter is quite helpful because it explains

how she will be doing her job, and it explains what they can expect from her.” Professional development was frequently addressed through activities and shared materials, with one mentoring pair collaborating to present their work at a conference.

### **Evaluation of the Mentoring Relationship**

Mentees and mentors provided comments and rated various aspects of the mentoring program, including expectations, logistics, and mentor attributes. Table 2 lists mean ratings for select items. Ratings for items related to the quality of the mentoring relationship were high for both mentees and mentors, such as ratings for the statement, “I looked forward to interacting with my mentor,”  $M = 8.63$  ( $SD = 1.93$ ), and for “I felt comfortable interacting with my mentee,”  $M = 8.87$  ( $SD = 2.20$ ) on a 10-point scale.

Participants identified aspects of the mentoring relationship they found most valuable. Advice, support, and confidence-building ( $n = 9$ ) offered by mentors were most frequently mentioned among mentees. One mentee stated “[My mentor] was willing to push me to do my best, or to help me in certain areas that needed improvement,” and another commented “[My mentor] showed me how to put my fears aside and go after what I want.” Mentees also valued discussing work-related issues and assistance with job searches ( $n = 12$ ), indicated in statements such as, “Getting real-world feedback from a professional in my field who has similar struggles due to a degree of blindness [was most valuable].”

Mentors frequently reported valuing mentee willingness to learn ( $n = 12$ ), the opportunity to contribute to mentee success ( $n = 7$ ), and the overall mentoring relationship ( $n = 7$ ). One mentor commented, “My mentee was very talented in his field and very motivated. I enjoyed getting to know him, seeing some of his work.” Another mentor noted the personal value and importance of mentoring programs, “This was one of the most rewarding experiences I have had in a long

time. Since blindness is a low incidence disability, we don't usually meet a lot of [professionally successful] blind people. This program needs to multiply."

Mentees were also asked to describe the most helpful thing they learned during the mentoring process. Responses were positive, with most falling into one of three broad categories: job seeking skills, including practicing interviewing and disclosure ( $n = 9$ ); realistic goals and career choices ( $n = 5$ ); and how to manage work environments ( $n = 4$ ). One mentee commented, "My mentor asked me interview questions that were focused on how I would address my disability in the interview process. This was really helpful." Another commented that the most helpful component was advice from their mentor, such as: "[To] focus on my strengths and build strong relationships with other team members [at my workplace]." Other comments concerned having a positive outlook about blindness, including statements such as, "Learning to accept myself as I am, especially my blindness. This journey of acceptance began with accepting that I need to use my white cane in public. Hearing about [my mentor's] daily use, even [in professional settings], encouraged me to use it and see it as second nature," and "To not let my disability get in the way of success."

### **Evaluation of the Mentoring Program**

In quantitative ratings of program logistics and the mentoring process, participant satisfaction was high (See Table 2). Mentees expressed agreement with statements such as "My mentor responded to communication in a timely manner,"  $M = 7.08$  ( $SD = 3.28$ ), and "My mentor was knowledgeable about the field,"  $M = 8.79$  ( $SD = 1.64$ ).

Participants provided suggestions for improvements or additional resources for future programs. Most responses ( $n = 12$ ) were neutral, (e.g., "No improvement needed"), but some suggestions addressed program customization, including improving match compatibility (i.e.

location, professional goals, and blindness levels and skill;  $n = 5$ ), and the level of staff involvement (with some recommending more and others less;  $n = 6$ ). Additionally, some mentors ( $n = 4$ ) commented that personal issues and scheduling created some difficulty, (e.g., “It could have been better at a different time in my life, and transportation was an issue for the both of us.”) Some participants ( $n = 6$ ) also wanted opportunities to connect with other program participants to share information. Finally, mentees were asked to list additional topics they would have liked their mentors to address. Responses focused on field-specific work issues ( $n = 6$ ), including negotiating compensation, contracts, and building portfolios.

Because the study design required mentors to be legally blind, working in the same field as the mentee, and both distance and local pairs were included, we measured participant rankings of the importance of each of these characteristics in pairing mentees with mentors. The mentor having legal blindness was ranked most important by the majority of mentors (56.5%) and mentees (47.8%). Sharing the same career field was ranked as most important by 39.1% of mentors and 30.4% of mentees. The fewest number of mentors (4.3%) and mentees (26.1%) ranked geographic proximity as most important.

### **Discussion**

Many of the activities mentees identified as most helpful and reported engaging in most often related to managing blindness in the job search process and on the job. Of the topics that mentees most frequently rated very helpful, three were blindness specific (disclosure, accommodation planning, and assistive technology skills). These themes were also reported by participants in open-ended responses about shared materials, and the most helpful aspects of the program. These findings reinforce the importance of these topics noted in previous literature (e.g., Parry, Rutherford, & Merrier, 1995; Butterfield & Ramseur, 2004; McDonnall & Crudden, 2009).

Mentees rated the development of social skills as very helpful, an issue identified in research as a prevalent concern for students with B/VI transitioning to employment (McDonnall & Crudden, 2009). Participant experiences in this study underscore the value of mentoring within a B/VI-specific framework.

In addition to addressing blindness-specific issues, mentees reported benefiting from engagement in general employment preparation activities with mentors, such as improving job search skills (e.g., finding job openings, preparing resumes, and submitting applications), and professional development (e.g. obtaining certifications and developing portfolios), as well as field-specific concerns of career exploration and networking. Mentees identified early career issues, such as navigating the workplace and career-building, and field-specific professional development concerns as important and valuable topics. In light of this finding, it may be important that mentoring programs for transition-age job seekers extend into employment to support early career establishment.

Evaluation of the mentoring program was highly positive. Mentees valued advice and guidance mentors offered, particularly their personal experiences, resources shared, and discussions regarding challenges and solutions in navigating employment with B/VI. Mentors valued their contribution to mentee growth and success, as well as the opportunity to foster a relationship with another person with B/VI in their respective fields. Though feedback was generally positive, recommendations for program improvement included: greater customization of the mentoring match and the level of staff involvement, and providing opportunities for group interaction.

Match proximity did not impact frequency of communication, activities, or program satisfaction. Distance and local mentoring both led to benefits, which is valuable information for

developing programs where face to face mentoring is not feasible. Most participants agreed it was most important for mentors to be blind, closely followed by being in the same profession, with location ranked as least important.

### **Limitations**

One important limitation of this study is that all measures used self-report, which carries a potential for imprecision (Stone, Bachrach, Jobe, Kurtzman, & Cain, 1999). Similarly, although efforts were made to objectively interpret narrative comments, these remain subjective by nature and should be interpreted with caution. Next, because this program was designed as an experimental research study, the rigidity of selection criteria limited sample size which may affect generalizability. Finally, although efforts were made to match mentees with mentors as closely as possible, factors that were not strictly controlled in the study such as proximity, degree of exact position/career match between pairs, and varying levels of mentor involvement may have affected mentee experiences.

### **Implications and Future Directions**

This research offers valuable information for practitioners working with transition-age youth with B/VI. Based on participant experiences from this study, it would be beneficial to incorporate the two most critical factors—blindness/visual impairment, and field-specific knowledge—in the development of future mentoring programs for job seekers with blindness. Whenever possible, these factors should be considered in the selection of mentors and in materials and topics covered throughout the relationship. For the latter, the *Employment Mentoring Manual* (NRTC, 2016a) developed for this program is publicly available.

Future research that involves systematically interviewing successful mentoring pairs would be advantageous, as would comparing the impact of local versus distance mentoring using a

larger sample. More research is warranted with this population to investigate, in greater depth, best mentoring practices to support the transition to competitive employment.

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Table 1

*Mentee Participation and Ratings for Helpfulness of Career Activities and Discussion Topics*

Activities and Discussion Topics	% Who Participated in Activity	% Who Rated Activity Very Helpful
Disclosure of Visual Impairment	100.0	87.5
Importance of Social Skills in the Job Field	87.5	79.2
Career Options	95.8	79.2
Accommodation Planning	100.0	75.0
Networking with Friends, Family, Acquaintances, and Professionals in the field	100.0	70.8
Technology Skills Translated to a Work Setting	79.2	66.7
Transportation Options	87.4	62.5
Resume Building and Prep of Application Materials	95.9	58.3
Interview Etiquette	83.4	58.3
Practicing Potential Questions/Reponses for Interviews	75.0	50.0
Orientation & Mobility Skills	70.8	45.8
Job Search Techniques	87.4	45.8
Practicing Transferring Technology Skills to a Work Setting	75.1	45.8
Participating in Job Shadowing Activities	62.5	29.2

*Note.* Values indicate the percent of mentees who rated that activity “Very Helpful” at least once in the year, and percent of mentees who reported engaging in that activity at least once in the year ( $n = 24$  mentees).

Table 2

*Mentor and Mentee Ratings for Evaluation Items*

<b>Evaluation Items</b>	<b>Mentors</b>	<b>Mentees Overall</b>	<b>Local Mentees</b>	<b>Distance Mentees</b>
<b>Relationship/Rapport</b>	Mean (Standard Deviation)			
I felt comfortable interacting with my mentor/mentee.	8.87 (2.20)	8.96 (1.37)	9.22 (0.97)	8.80 (1.57)
I looked forward to interacting with my mentor/mentee.	8.48 (2.25)	8.63 (1.93)	8.89 (1.36)	8.47 (2.23)
My mentor/mentee and I will keep in touch after the project is over.	7.35 (2.57)	7.92 (2.81)	7.89 (2.52)	7.93 (3.06)
<b>Match/Expectations</b>				
<i>My mentoring relationship seemed one-sided.*</i>	2.65 (2.35)	3.75 (3.15)	2.78 (2.11)	4.33 (3.58)
<i>It was difficult to communicate with my mentor/mentee.</i>	2.91 (2.81)	4.17 (3.42)	4.11 (3.82)	4.20 (3.30)
<i>My mentor/mentee and I had different expectations for meeting the goals of the project.</i>	3.22 (2.61)	3.50 (2.13)	3.33 (2.35)	3.60 (2.06)
<b>Logistics/Process</b>				
Meeting with my mentor/mentee face to face was important to me.	4.43 (3.42)	5.54 (3.37)	8.00 (2.18)	4.07 (3.13)
My mentor/mentee responded to communication in a timely manner.	7.87 (2.42)	7.08 (3.28)	7.44 (3.17)	6.87 (3.44)
<i>Geographic location of my mentor/mentee made the relationship difficult to maintain.</i>	3.48 (2.92)	4.71 (3.43)	3.00 (2.92)	5.73 (3.39)
<b>Mentor Attributes</b>				
My mentor was knowledgeable about the field.	N/A	8.79 (1.64)	8.67 (1.73)	8.87 (1.64)

My mentor gave me a realistic view about my field of interest.	N/A	8.04 (2.49)	7.89 (2.47)	8.13 (2.59)
My mentor gave me specific tips or resources that will help me in my career.	N/A	7.33 (2.97)	7.00 (2.55)	7.53 (3.27)
My mentor is someone I can turn to with career questions.	N/A	8.13 (2.92)	8.11 (2.47)	8.13 (3.25)

*Note.* Italics indicate negatively worded item. Scale 1-10, where 10 = Strongly Agree, 1 = Strongly Disagree. Local Mentees are defined as living within one hour travel time from mentor, Distance Mentees outside one hour.