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**Investigating Characteristics of Quality Peer Mentors with Spinal Cord Injury**

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**RUNNING TITLE: Quality Peer Mentorship**

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**Abstract**

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**Objective:** To identify characteristics 1) of high and low quality SCI peer mentors; and 2) that should be used to match spinal cord injury (SCI) peer mentors and mentees.

**Design:** The study was conducted in partnership with three Canadian provincial SCI Organizations using an integrated knowledge translation approach. The Delphi exercise was completed in three rounds. In Round 1, people with SCI completed a thought-listing exercise to identify characteristics of high and low-quality peer mentors and for matching. In Rounds 2 and 3, people with SCI and community organization staff rated characteristics from the previous round on an 11-point scale. After the final round, the remaining characteristics were thematically analyzed.

**Setting:** Community-based peer mentorship programs in three Canadian provinces.

**Participants:** People with SCI and SCI community organization staff (Round 1, n = 45; Round 2, n = 27; Round 3, n = 25).

**Interventions:** Not applicable.

**Main Outcome Measures:** Consensus-based list of characteristics.

**Results:** Participants reached consensus on 215 characteristics of quality peer mentors and 11 characteristics for peer mentor-mentee matching (ICC = 0.96). A consensus-based characterization of high and low-quality peer mentorship was created and included six overarching themes: competencies, personality characteristics, emotional state, mentor outlook, reason for mentoring, and role model.

**Conclusion:** A consensus-based characterization of quality peer mentorship was co-developed with input from over 50 members of the SCI community. Findings highlight that peers have both interpersonal and intrapersonal characteristics that contribute to quality mentorship. The findings highlighted the importance of matching mentors on lived experience and shared interests. Findings will inform future research and SCI peer mentorship programs.

**Key Words:** Consensus; spinal cord injury; peer mentorship; Delphi

**Abbreviations:** Spinal Cord Injury (SCI); Integrated Knowledge Translation (IKT)

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**Introduction**

49           A spinal cord injury (SCI) can impact almost every aspect of a person's life. While primary  
50 goals of rehabilitation are to prepare individuals for returning to community living, research  
51 indicates that participation in daily activities and social roles is compromised among the SCI  
52 population (1, 2). To support people with SCI after an injury, several Canadian community service  
53 organizations have established peer mentorship programs, as have several other community  
54 organizations in different regions of the world. SCI peer mentorship is defined as *a peer interaction*  
55 *that aims to provide encouragement, counsel, and information to individuals who share similar*  
56 *lived experiences*(3). Often SCI organizations will match peers mentors and mentees on  
57 demographic characteristics such as age or gender (4, 5)

58           Qualitative and descriptive evidence indicates that peer mentorship may be an important  
59 and valuable service to support people with SCI to adjust, adapt, and thrive after an injury (2, 3,  
60 6-8). Yet, very little research has examined the mechanisms by which peer mentorship achieves  
61 positive outcomes. Qualitative research by Veith and colleagues outlined five components that  
62 differentiate peer mentorship relationships from other supportive relationships (i.e. credibility,  
63 equitability, mutuality, acceptance, normalization). Similarly, psychological and leadership  
64 theories and approaches (e.g., transformational leadership, self-determination theory, and  
65 motivational interviewing) have emerged as frameworks that may explain quality peer  
66 mentorship(9-11). Because these studies were grounded in theory, they provided top-down  
67 evidence (i.e. deductive) of peer mentor characteristics that were embedded within their respective  
68 theories. Although theoretically important, examining an array of characteristics through one  
69 theoretical lens may limit our understanding of peer mentorship interactions. However, we have  
70 yet to establish an understanding of the characteristics of peer mentors that *the SCI community*

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71 believes are important or whether these characteristics differ from those specified in theories  
72 developed by researchers. To fully understand the characteristics that define high and low-quality  
73 peer mentorship, a bottom-up approach (i.e. inductive) that focuses on the perspectives and direct  
74 experiences of people with SCI providing and/or receiving peer mentorship and community  
75 organizations providing peer mentorship services is needed.

76         Integrated knowledge translation (IKT) is an approach ideally suited to inductive  
77 approaches as research users work in equitable partnership with researchers throughout the entire  
78 research process (12-14). Through an IKT approach, evidence-based solutions that address the  
79 priorities and needs of communities can be identified and developed. Consensus methodology is  
80 one IKT strategy used to put decision-making power in the hands of those who are most affected  
81 by the decision (15-19). Delphi methodology is a type of consensus method that may hold promise  
82 for harnessing the insights of communities (15, 19) and is commonly used in medical, nursing, and  
83 health services research (16, 18, 20). It has the advantage of establishing consensus in a large,  
84 heterogeneous, and geographically dispersed communities such as the SCI community (i.e. people  
85 with SCI and SCI-focussed community organizations providing peer mentorship services). The  
86 opinions of each expert are also equally valued, allowing for a wider range of direct knowledge  
87 and experiences to inform decisions and solutions (21-24). Establishing consensus among the SCI  
88 community regarding characteristics of peer mentors may be an important first step to  
89 understanding the characteristics of quality peer mentorship. Identifying these characteristics is  
90 invaluable for informing and improving peer mentorship programs offered by SCI organizations.

91         Using a community-based Delphi methodology, the present study aimed to develop  
92 understanding of quality peer mentorship from the perspectives and direct experiences of people  
93 with SCI providing and/or receiving peer mentorship and community organizations providing peer

94 mentorship services. Specifically, we aimed to establish consensus among the SCI community  
95 regarding 1) characteristics of high and low-quality SCI peer mentors; and 2) characteristics that  
96 SCI organizations should consider using when matching SCI peer mentors and mentees. Using  
97 these characteristics, we aimed to co-develop a consensus-based characterization of quality peer  
98 mentorship. Because peer mentorship programs are offered in both hospital- and community-based  
99 settings, we examined characteristics in both settings. To our knowledge, this study represents the  
100 first community-based Delphi exercise specifically involving people with SCI and SCI community  
101 service organizations.

## 102 **Method**

### 103 **Integrated Knowledge Translation**

104 This study was designed using an IKT approach (14). To understand peer mentorship  
105 across different contexts, the researchers partnered with three provincial SCI community  
106 organizations who offer SCI peer mentorship programs (Spinal Cord Injury Alberta, Spinal Cord  
107 Injury BC, Spinal Cord Injury Ontario). The team included people with lived experience of SCI  
108 and peer mentorship, researchers with experience conducting community-based SCI research, and  
109 administrators within each organization with the authority to make decisions regarding their peer  
110 mentorship program. Together, our team applied for and received funding, refined the research  
111 question, developed the methods, analyzed the data, and disseminated the findings. At each of  
112 these stages of the research process, the team met online to discuss and refine next steps.

### 113 **Design and Participants**

114 The Delphi methodology was approved by the University of British Columbia Okanagan's  
115 Behavioural Research Ethics Board. The study used a three-round Delphi methodology to address  
116 the research questions. Delphi methodologies have been considered as a reliable means for

117 reaching consensus when a minimum of six expert participants are included (24). Therefore, we  
118 aimed to recruit a minimum of six experts from each target group (i.e. peer mentors, mentees, and  
119 SCI organizations). In Round 1, only SCI peer mentors or mentees (i.e. people who have  
120 previously received and/or provided peer mentorship) completed the questionnaire. To ensure our  
121 findings were relevant to organizations that provide peer mentorship programs, Rounds 2 and 3  
122 included participants who had either received or provided peer mentorship *as well as* SCI  
123 organization staff who support SCI peer mentorship programs.

#### 124 **Procedures**

125 Informed consent was obtained from all participants. In addition to completing  
126 demographic questionnaires and mentorship experience questionnaires, participants completed up  
127 to three rounds of online Delphi questionnaires. The language in each questionnaire was targeted  
128 to specific participant groups (i.e. mentors, mentees and SCI organization staff) and copies of  
129 questionnaires are provided in supplementary files and on Open Science Framework (see  
130 DOI 10.17605/OSF.IO/GJT CY).

131 In line with the Delphi methodology, participants completed six thought-listing exercises  
132 in Round 1. In exercises 1 to 4, participants were instructed to list all the characteristics of a peer  
133 mentor who provides excellent, high-quality peer mentorship in a hospital-based setting (exercise  
134 1); poor, low-quality peer mentorship in a hospital-based setting (exercise 2); excellent, high-  
135 quality peer mentorship in a community-based setting (exercise 3); and poor, low-quality peer  
136 mentorship in a community-based setting (exercise 4). Before listing characteristics, the  
137 individuals were instructed to visualize the peer mentor for two minutes. In exercises 5 and 6,  
138 participants were instructed to list all the characteristics that need to be considered when matching  
139 a peer mentor with a mentee in a hospital-based setting (exercise 5) and a community-based setting

140 (exercise 6). In all exercises, participants were instructed to list as many characteristics as possible  
141 and were reminded there were no right or wrong responses.

142 In Round 2, participants were presented with characteristics of peer mentors and matching  
143 characteristics generated from Round 1. All characteristic lists were divided into the same six  
144 sections used in Round 1 and the order in which characteristics were presented was randomized.  
145 Participants were asked to rate all characteristics on an 11-point scale from zero to ten (0 = strongly  
146 disagree to 10 = strongly agree). For Sections 1 to 4, participants used the scale to indicate the  
147 extent to which they agreed that each characteristic could be used to identify the peer mentor  
148 described. For Sections 5 and 6, participants again used the scale to indicate the extent to which  
149 they agreed that the characteristic should be considered when matching a peer mentor and mentee  
150 in the given context.

151 In Round 3, participants were provided with randomized lists of characteristics of peer  
152 mentors and matching characteristics that remained after Round 2. The format for the  
153 questionnaire was identical to Round 2, with the exception that each characteristic was presented  
154 with its corresponding Round 2 consensus statistics (i.e. average score, lowest score, highest  
155 score). In line with Delphi methodology, participants were instructed to consider this information  
156 when re-rating each characteristic and criterion listed using the 11-point scale.

### 157 **Analysis**

158 The analysis included two steps: 1) Delphi analysis; and 2) thematic analysis. Analyses  
159 associated with each step are outlined below.

160 **Delphi Analysis.** Round 1 generated over 1,000 characteristics. To reduce participant  
161 burden, one researcher streamlined the characteristic lists by removing duplicates and synonyms  
162 using the Oxford dictionary. The decisions and resulting list were discussed by four members of

163 the research team. A second researcher led an inductive thematic analysis of all characteristics as  
164 per the steps outlined by Braun and Clarke (2006). Upon completion, two members of the research  
165 team completed a deductive coding task, where characteristics not associated with humans (e.g.  
166 inanimate places or things) were removed. The final streamlined characteristic lists included  
167 themes as well as stand-alone characteristics that could not be accounted for by the themes  
168 identified.

169 In Rounds 2 and 3, the research team calculated the mean score, highest score, and lowest  
170 score for each characteristic rated by participants. Characteristics that received a mean score of  
171 greater than or equal to 8.0 *or* two-thirds of participants (approximately 66%) rated the  
172 characteristic as 8.0 or higher were retained in the list. All other characteristics were removed from  
173 the list. For the final round (i.e. Round 3), consensus was met when characteristics were no longer  
174 removed from the list, as all characteristics met pre-established criteria noted above. Intraclass  
175 Correlation Coefficients (ICC) were used to measure reliability across ratings because there were  
176 two or more raters (25). Values of 0.00-0.50 correspond to poor reliability, 0.50-0.75 to moderate  
177 reliability, 0.75-0.90 to good reliability, 0.90 and above to excellent reliability (26).

178 **Thematic Analysis.** The final lists included several overlapping characteristics after  
179 Round 3. To improve the usefulness and interpretability of findings, SCI organizations requested  
180 that the final characteristic list be further synthesized. Three researchers conducted an inductive  
181 thematic analysis of the final characteristics. This process was guided by Braun and Clarke's steps  
182 to conducting a thematic analysis (27, 28). The researchers independently read and re-read the  
183 final list of characteristics. Each researcher formulated initial codes to reflect the characteristics.  
184 Over several meetings (> 6 hours total), the three researchers then worked together to review and  
185 organize the codes into overarching themes and sub-themes and, subsequently, named and defined

186 each theme. The entire team reviewed the themes to ensure they were distinct, clear, and supported  
187 by the data.

## 188 **Results**

### 189 **Participants**

190 In Round 1, 45 people with SCI participated in the thought-listing exercise. In Round 2, 27  
191 people with SCI and/or staff of an SCI organization completed the questionnaire. In Round 3, 25  
192 people with SCI and/or staff of an SCI organization completed the questionnaire. Reasons for  
193 participant non-participation in each round were not collected. Detailed participant demographics  
194 are presented in Table 1.

### 195 **Results of the Delphi Consensus Analysis**

196 The total number of included and excluded characteristics across all contexts and for each  
197 specific context are presented in Table 2. Supplementary File 1 provides the complete raw lists  
198 and outlines the themes associated with each characteristic across the six lists as well as the Round  
199 2 and 3 mean scores and range for each characteristic. In Round 1, participants listed 1,110  
200 characteristics across all six lists. Once all lists were refined, 348 characteristics were included  
201 across the six lists. In Round 2, 226 characteristics met pre-established consensus criteria (mean  
202 score of greater than or equal to 8.0 *or* were rated as an 8.0 or higher by 66% of participants) and  
203 122 characteristics were removed from the list. In Round 3, 225 peer mentorship characteristics  
204 met pre-established consensus criteria, and one characteristic was removed from the list.  
205 Reliability of ratings was excellent across all participants (ICC = 0.96) as well as among mentors  
206 (ICC = 0.86), mentees (ICC = 0.80) and SCI organization staff (ICC = 0.87).

### 207 **Results of the Thematic Analysis**

208 Six overarching themes relating to quality peer mentorship and six sub-themes related to  
209 competencies were identified: competencies (sub-themes: general, communication, autonomy  
210 support, emotional intelligence), personality characteristics, emotional state, mentor outlook,  
211 reason for mentoring, and role model. The sub-theme of emotional intelligence included both  
212 selfawareness and social awareness. The majority of themes were observed in both contexts (i.e.  
213 hospital and community) and levels of quality (i.e. high and low). For example, the characteristic  
214 ‘positive attitude’ was observed for both high-quality community and hospital settings whereas a  
215 ‘negative attitude’ or ‘poor attitude’ was seen in low-quality hospital and community settings  
216 respectively. Definitions and descriptions of each theme and sub-theme are presented in Table 3.  
217 The number of characteristics and exemplar characteristics associated with each theme are  
218 presented in Table 4. Supplementary File 1 provides all characteristics retained after Round 3 and  
219 the theme or sub-theme assigned to the characteristic.

220 After Round 3, only eleven matching characteristics received a mean score of greater than  
221 or equal to 8.0 *or* were rated as an 8.0 or higher by 66% of participants. In a hospital setting, final  
222 matching characteristics included ‘language’, ‘understanding each other’, ‘availability’, ‘disability  
223 level/functional ability’, and ‘experience with similar challenges’. In a community setting, final  
224 matching characteristics included ‘mentor’s knowledge matches mentee’s needs’, ‘time  
225 availability’, ‘outlook and approach’, ‘knowledge about community-based resources’, ‘similar  
226 lifestyle goals that the mentee wants to achieve/experience’, and ‘experience with similar  
227 challenges that the mentee might encounter’.

### 228 Discussion

229 Using community-based Delphi methodology, a consensus-based characterization of  
230 quality peer mentorship was co-developed with input from of over 50 members of the SCI  
231 community with expertise in peer mentorship. By ensuring the SCI community was involved in

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232 the decision-making process, the Delphi exercise revealed a vast array of characteristics associated  
233 with peer mentors providing high or low-quality mentorship in both hospital and community  
234 settings (> 225 characteristics). The findings outline aspects of quality peer mentorship that  
235 focuses *both* on interpersonal (e.g. communication, autonomy support, and emotional intelligence)  
236 and intrapersonal characteristics (e.g. emotional state, personality, mentor outlook, reason for  
237 mentoring, and being a role model). Minimal differences in characteristics were observed between  
238 the hospital and community settings. While characteristics of quality peer mentors are diverse, the  
239 SCI community was only able to come to consensus for relatively few matching characteristics  
240 that primarily relate to the lifestyle and experience of the mentor rather than demographic  
241 characteristics. This finding is noteworthy and may indicate that it is important to match peer  
242 mentors with mentees based on lived experience rather than traditional demographic  
243 characteristics that have been used in previous work such as age or gender (4, 5)

244         The findings from this study closely align with previous work that has demonstrated SCI  
245 peer mentorship's congruence with motivational interviewing, self-determination theory, and  
246 transformational leadership (4, 9-11, 29). For example, characteristics associated with 'role model'  
247 and 'personality' align with the transformational leadership concepts of idealized influence (i.e.  
248 emulating desired behaviours by acting as a role model) and inspirational motivation (i.e. articulate  
249 a compelling vision for the future, display enthusiasm, and optimism) respectively (9). Likewise,  
250 characteristics associated with emotional intelligence, autonomy support, and communication  
251 skills align with the concepts of autonomy and relatedness in self-determination theory, as well as  
252 the spirit of motivational interviewing (10, 11, 30). This alignment with multiple theories and  
253 approaches may point to the value of training peer mentors in a variety of different underlying  
254 theories and approaches.

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255           Our consensus-based characterization of quality peer mentorship may begin to provide new  
256 insights into characteristics of peer mentors are able to help individuals adjust to life after injury,  
257 teach others, and facilitate participation in daily activities and social roles. Our findings indicated  
258 that peer mentors need the competencies to communicate and be knowledgeable about topics  
259 related to SCI, but they must also have the intrapersonal and interpersonal skills necessary to  
260 motivate and support others. Furthermore, the overarching themes closely align with the five  
261 unique components peer mentorship identified by Veith and colleagues (i.e. credibility,  
262 equitability, mutuality, acceptance, normalization) (3). However, our findings also point to other  
263 considerations about mentorship not mentioned by previous work. Namely, the mentor's outlook  
264 and emotional state. In particular, our findings indicate that it is important that mentors are in a  
265 positive emotional state prior to mentoring. Further research is needed to understand if and how  
266 the characteristics of quality peer mentorship influence outcomes associated with SCI mentorship  
267 and how SCI organizations can feasibly train individuals to *or* select individuals who can  
268 effectively share their lived experiences, address their emotional state, and build their capacity for  
269 emotional intelligence.

270           Our finding that it is important to match peer mentors with mentees based on lived  
271 experience rather than traditional demographic characteristics is noteworthy. Previous work has  
272 matched individuals based on demographic factors such as age or gender (4, 5). Further research  
273 is needed to understand how peer mentorship programs can facilitate matching on lived experience  
274 and interests as well as whether these matches lead to better outcomes for the mentee and mentor.

275           A particular strength of this research is the use of IKT and consensus methodologies. Using  
276 a Delphi methodology within an IKT approach, we aimed to shift the power and ownership over  
277 the research to the SCI community. This shift supported strong participation from the community

278 and has made the translation of our findings into tangible tools and resources a natural future  
279 direction for this research. In particular, our findings can be used by SCI Organizations to develop  
280 and select training methods that align with our characterization of quality peer mentors, inform  
281 evaluation criteria for their programs, and match peer mentors with mentees. The team will work  
282 to create tools and resources that support the partner organizations to disseminate and apply the  
283 findings to their daily practices. In turn, future directions for this research will be to test the validity  
284 and impact of the findings within peer mentorship programs.

### 285 **Study Limitations**

286         Despite the value of our IKT approach, this research has limitations that must be  
287 acknowledged. First, participants were only recruited from three mentorship programs from across  
288 Canada. While participants demographics were broadly representative of the Canadian SCI  
289 population (31), it is possible that these findings may not generalize to other countries  
290 organizations that use a different peer mentorship approach. Second, participants were asked to  
291 only list characteristics in their own words. The context or rationale for listing these characteristics  
292 was not explored and it is possible that other participants may have interpreted these characteristics  
293 differently. Finally, the study was only conducted in English which may have led to a view of peer  
294 mentorship that precludes the diverse experiences of people with a SCI who do not speak English.  
295 Further efforts are needed to understand how we can include a diverse group of people with SCI  
296 in our research.

### 297 **Conclusions**

298         As a whole, this research begins to shed light on the SCI community's opinions regarding  
299 the interpersonal and intrapersonal characteristics associated with providing quality peer  
300 mentorship. This research also emphasizes the importance of matching mentors on lived

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301 experience and shared interests. Findings are both valuable for understanding the mechanisms of  
302 peer mentorship as well as for improving SCI peer mentorship programs.

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