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2021

The final publication is available at:

<https://doi.org/10.1037/cap0000258>

Citation for this paper:

Gicas, K. M., Paterson, T. S. E., Narvaez Linares, N. F., & Loken Thornton, W. J. (2021). "Clinical psychological assessment training issues in the COVID-19 era: A survey of the state of the field and considerations for moving forward." *Canadian Psychology/Psychologie canadienne*, 62(1), 44–55.

<https://doi.org/10.1037/cap0000258>

1 **Clinical Psychological Assessment Training Issues in the COVID-19 Era: A Survey of the**
2 **State of the Field and Considerations for Moving Forward**

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42 ACCEPTED VERSION of PEER-REVIEWED MANUSCRIPT:

43 This preprint has been peer-reviewed and accepted for

44 publication in *Canadian Psychology*, for publication in late

45 2020.

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Abstract

This survey aimed to inform graduate level training in clinical psychological assessment by identifying strategies, barriers, and needs of psychologists in managing assessment training activities in the COVID-19 era. A national online survey in English and French was advertised to registered psychologists involved in teaching, training, and/or supervision of clinical psychological assessment in Canada. Quantitative items were summarized, and qualitative data from the survey underwent thematic analysis. Of 164 respondents, 36% endorsed teaching clinical psychology or cognitive assessment courses and 54% of them said they would adapt teaching to be entirely remote in the context of COVID-19 restrictions. The biggest teaching barriers were perceived as *insufficient knowledge of remote clinical assessment methods* and *inadequate guidance from institutional authorities*, while the most significant concerns were perceived *ability to effectively meet course objectives* and to *prepare students for practica*. Over three-quarters (77%) of respondents indicated being involved in assessment training/supervision in practica or residencies, with 57% of these indicating their activities will be carried out in a blended format. The biggest barriers were clinic closures, onsite training restrictions, and inadequate resources, while concerns were related to threats to assessment validity and to health and safety. Results of this survey provide a snapshot of the state of the field and the authors offer key considerations for moving forward as psychologists prepare to adapt teaching, training, and supervision activities. The impacts of COVID-19 on clinical psychological assessment training are broad, and although disruptive, present an opportunity for a paradigm shift.

79

List of Abbreviations

Association of Canadian Psychology Regulatory Organizations	ACPRO
Canadian Psychological Association	CPA
Canadian Council of Professional Psychology Programs	CCPPP
Coronavirus disease of 2019	COVID-19
Personal protective equipment	PPE
World Health Organization	WHO

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82 **1.0 Introduction**

83 The coronavirus disease of 2019 (COVID-19) pandemic began disrupting the lives of
84 virtually every Canadian this past March (WHO, 2020). Consequently, the field of professional
85 psychology has experienced significant disruption to many aspects of practice and training.
86 Following the initial period of closures that swept many Canadian regions this spring (Public
87 Health Agency of Canada, 2020), it quickly became clear that some areas of practice in
88 psychology were more readily adaptable to remote methods than others. Provided adequate
89 telecommunication methods, with some exception, many therapy/intervention programs have
90 been able to resume services to a great extent, with relatively good empirical support for the
91 utility of remote interventions (Bee et al., 2008; Kumar et al., 2017). Similarly, anecdotal reports
92 suggest many professional psychology training programs have been able to move to remote
93 methods for therapy with administrative and security protocol adjustments to allow for use of
94 remote videoconferencing methods. Practitioners offering psychodiagnostic assessments have
95 also been able to shift to online administration options (e.g., PAR iConnect) for select
96 assessment measures, along with remote interview techniques, allowing for resumption of some
97 of these services. However, not all psychological tests are available or validated for online
98 administration, which poses challenges for ethical clinical service provision and assessment
99 training.

100 Cognitive (e.g., neuropsychological, psychoeducational) assessments, often providing
101 vital information to many areas of medical practice, educational planning, and rehabilitation
102 treatment planning, have not been as seamlessly transferrable to remote practice. From a purely
103 logistical perspective, cognitive assessment generally relies on numerous tools requiring the
104 client's in-the-moment interaction with the assessor and procedures that have been strictly

105 standardized in face-to-face settings. While some preliminary guidelines for the conduct of
106 teleneuropsychology practice have been provided (Grosch et al., 2011), few cognitive tools have
107 been examined for reliability and validity in non-face-to-face scenarios (Munro Cullum et al.,
108 2014; Brearly et al., 2017) and remote cognitive testing has not been commonly undertaken in
109 clinical settings (Miller & Barr, 2017). In the current context of physical distancing and
110 movement to remote service provision in many areas of healthcare, psychologists who routinely
111 conduct cognitive assessments have had to individually determine their level of competence in
112 delivery of remote assessments (Canadian Psychological Association [CPA], 2020; Bilder et al.,
113 2020), and their level of comfort given the limited empirical evidence for the validity of
114 measures utilized in these assessments (e.g., Brearly et al., 2017; Marra et al., 2020).

115 The unique facets of cognitive assessment pose a greater level of challenge with respect
116 to clinical assessment training during the COVID-19 pandemic. In particular, professional
117 graduate training programs are grappling with several nuanced issues that are continually arising
118 in this context. Logistically, specialized technology, such as document cameras and secure
119 videoconferencing platforms, are required to allow for the level of behavioural observation
120 generally routine in cognitive assessment, and this needs to be available to all parties involved in
121 the assessment, including trainees. Test security becomes a related issue, given the number of
122 tasks that solicit written responses, as well as the decreased level of situational control as a
123 consequence of not being in the same room as the client (CPA, 2020). In this context, test
124 content remains vulnerable to being recorded and exposed to the broader public, jeopardizing its
125 validity and clinical utility, with additional legal implications for psychologists related to
126 copyright infringement. Moreover, concerns surrounding the validity of cognitive measures used
127 in non-standard administration is an issue related to ensuring appropriate training of future

128 clinicians (Farmer et al., 2020). There is also an emergent discussion of whether junior students
129 should learn altered test administration methods prior to acquiring foundational skills in
130 standardized face-to-face formats (Pade et al., 2020). Similarly, the level of competency of
131 program faculty and supervisors in tele-assessment practices, and comfort level in providing
132 training in these specialized areas of practice presents a salient issue (CPA, 2017, 2020).

133 Prior to the COVID-19 pandemic, there was no precedent for training in tele-assessment
134 practices within Canadian professional graduate training programs. As a result, many training
135 programs, as well as practicum and internship sites are lacking specific training protocols for
136 remote assessment, as well as standards of practice for ensuring continuity of training amidst
137 ongoing pandemic-related regulations and restrictions. Thus, within this rapidly evolving
138 landscape, there has emerged a clear and urgent need for professional psychology training
139 programs to “adjust to meet the needs” of their trainees impacted by COVID-19, while
140 continuing to ensure “that those entering the profession are competent and ethical practitioners
141 who are prepared to meet the challenges of practice” (Canadian Council of Professional
142 Psychology Programs [CCPPP], 2020).

143 With these issues in mind, there is a need to gather information concerning the ability of
144 psychologists to continue and appropriately modify training in clinical psychological assessment
145 at the graduate level. The present survey was designed to provide a snapshot of the current state
146 of clinical psychological assessment training in Canada. In particular, we aimed to identify the
147 strategies, barriers, and needs of psychologists as they manage assessment activities in the
148 COVID-19 era. A primary goal of this undertaking was to inform immediate planning of
149 assessment training in the context of the ongoing pandemic, with an arguable secondary

150 important consideration being that our current experience must be a prologue to future planning,
151 and that changes made now may also inform the future of assessment training more generally.

152

153 **2.0 Methods**

154 **2.1 Respondent characteristics**

155 Survey respondents were English and/or French speaking registered psychologists in
156 Canadian provinces or territories (N = 164) who identified as being involved in teaching,
157 training, and/or supervision of clinical psychological assessment in any capacity. Respondents
158 represented a broad range of specialty areas of practice and were from varied settings including
159 universities, and community-based public and private institutions.

160 **2.2 Survey Development**

161 This online survey was collaboratively developed by three of the authors who have
162 specialized training in clinical neuropsychology and who work as faculty members in accredited
163 clinical psychology training programs (KMG, TSEP, WJLT). Additional input on the survey was
164 provided by the Clinical Neuropsychology Section Executive Committee of the CPA and
165 solicited from Canadian psychologists who are members of a small working group dedicated to
166 managing assessment training issues in the context of COVID-19 and who represent a diverse
167 range of practice settings and locations, specialty areas, and career stages. The final version of
168 the survey was also translated to French by one of the authors (NFNL) who is a bilingual senior
169 clinical psychology doctoral student. English and French versions of the survey were
170 programmed separately in Qualtrics.

171 The final survey consisted of 25 items, some of which included follow-up prompts and
172 forced choice responses. The survey included three general categories of items related to clinical

173 psychological assessment activities: demographics, teaching, and training/supervision as part of a
174 practicum or internship placement. Respondents endorsements on select items determined which
175 sections of the survey they were asked to complete (e.g., only those stating they were involved in
176 teaching were presented with teaching related items). Three final open-ended items were also
177 included for optional response, asking respondents to describe: a) specific strategies or tools they
178 have been are using/considering to manage clinical assessment training issues, b) any additional
179 barriers they have encountered, and how they have overcome these; and c) any other needs they
180 feel they have in relation to managing clinical assessment training issues, and how these needs
181 may be best met. An optional “other comments” text box was also included at the end. We aimed
182 to minimize respondent burden by designing the survey to be brief (approximately 10 min) and
183 to only capture information most pertinent to informing the management of clinical assessment
184 training issues in the COVID-19 era. Therefore, we decided not to gather additional demographic
185 details (e.g., age, gender, ethnicity, etc.) Ethics approval was waived by the research ethics board
186 of York University.

187 **2.3 Survey Data Collection**

188 Links for the English and French survey versions were disseminated online by the study
189 authors via provincial psychology listservs, psychological assessment working groups and
190 discussion forums, CPA members, social media (Twitter), word of mouth, and by e-mails to
191 Directors or Chairs of CPA-accredited psychology training programs (clinical, school, and
192 counselling). The survey was also forwarded by one respondent to the Canadian Council of
193 Professional Psychology Programs to be disseminated via their listserv. The survey was open
194 from June 18th to July 2nd, 2020. When respondents clicked on one of the two survey links
195 (English or French version), they were brought to a page that included a preamble describing the

196 purpose and nature of the survey, how the data collected would be used and disseminated, how
197 the survey was developed, and e-mail contacts of study authors (KMG, TSEP, WJLT) for
198 inquiries. In order to proceed, they were required to click either “I consent, begin survey.”/“Oui,
199 je veux commencer cette enquête.” or “I do not consent, I do not wish to participate.”/“Je ne
200 consens pas, je ne souhaite pas participer.”

201 **2.4 Analytic Strategy**

202 Survey responses from English and French versions were combined in Qualtrics. Some
203 aspects of data summary were performed directly in Qualtrics, while additional summaries were
204 performed following extraction of data into a Microsoft Excel file. For qualitative data from the
205 three open-ended items, we conducted a thematic analysis of responses, while respecting the
206 minimum sample ($n > 6$) for this approach (Guest et al., 2016). We followed, in an abbreviated
207 manner, the steps articulated by Braun and Clarke (2006). These steps emphasize the
208 development of themes and the latter represent some level of patterned response or meaning
209 within the data set. We also searched for meanings and patterns and included them in the first
210 phase of this analysis and then further refined the themes. Descriptions and supporting quotes for
211 each theme are detailed in the results section.

212

213 **3.0 Results**

214 A total of 185 psychologists consented to begin the survey and 165 completed the survey
215 (English version: $n = 147$; French version: $n = 18$). We removed the data from one respondent
216 who identified as primarily practising in the USA, yielding a final sample size of $N=164$. It took
217 respondents a median of 8.7 minutes to complete the survey.

218 **3.1 Sample Characteristics**

219 Respondents comprised 164 psychologists from large urban centres and small towns in
220 nearly every province, but none from the territories (see Table 1). A description of psychologists'
221 primary area(s) of practice as it relates to clinical assessment training activities is summarized in
222 Table 2. Three-quarters (74.7%) of the total sample indicated clinical psychology (46.1%) and/or
223 clinical neuropsychology (28.6%) as their primary area(s) of competence. The majority (79.0%)
224 work with adults (32.1%), adolescents (25.0%), and/or children (21.9%). Figure 1 depicts the
225 primary roles identified by psychologists, with the most common being either a clinician in a
226 hospital who offers/has offered graduate practicum training opportunities (32.3%) or a faculty
227 member in a CPA-accredited university-based clinical psychology training program (31.7%).
228 Among faculty members ($n = 52$), two-fifths (40.7%) are involved as a supervisor in an on-
229 campus or program-affiliated clinic, while others identified as being in the role of Director of
230 Clinical Training (20.4%), Clinic Director (5.6%), or Department/Program Chair (1.9%). Among
231 hospital-based clinicians ($n = 53$), one-fifth (19.6%) hold the role of Director of Clinical
232 Training/Practicum Director.

233 **3.2 Teaching**

234 Among the 164 respondents, a third (36.0%) indicated being involved in teaching courses
235 related to clinical psychology or cognitive assessment, with the majority involved in teaching
236 graduate courses only (70.0%), while one-quarter (26.0%) teach both undergraduate and
237 graduate classes in this area. Most respondents (80.0%) indicated their course(s) typically
238 involve or require a practical or hands-on learning component.

239 When psychologists were asked how they have adapted/considered adapting their
240 teaching to comply with physical distancing requirements in their jurisdiction, over half (54.0%)

241 indicated teaching is/will be conducted entirely remotely (e.g., via videoconferencing), a third
242 (34.0%) said it is/will be in a blended format (virtual and in-person), and 2.0% said teaching
243 is/will be postponed. Of the 10.0% that indicated “Other”, respondents mostly described
244 consideration of a blended teaching format but with possible postponement of the in-person
245 teaching components until safe to do so. A third (34.0%) of respondents indicated that the
246 decisions regarding teaching adaptations were either imposed by institutions while just over a
247 quarter (28.0%) said decisions were made in collaboration with clinical leaders (e.g., Chairs,
248 Directors of Clinical Training). A number of respondents (16.0%) indicated “Other” and
249 described decisions being made in collaboration with both clinical and non-clinical individuals
250 within their institutions or that decisions will be made at a later date. A minority of responses
251 indicated decisions were either made in collaboration with other clinical instructors (8.0%) or
252 individually (4.0%). When asked to rate their preparedness for adapting clinical teaching in the
253 2020–2021 academic year, there was an equal split between psychologists feeling either
254 *adequately prepared* (42.0%) or *not well prepared* (42.0%), with fewer on the extreme ends
255 (*very unprepared* [8.0%], *very well prepared* [4.0%]), or not teaching (4.0%).

256 Respondents were asked to rank order (from most to least important) their *biggest*
257 *barriers* related to effectively carrying out their teaching duties, and responses revealed a high
258 degree of variation in what psychologists identified as being the most important. While the
259 number one reported barrier was *insufficient knowledge of remote clinical assessment methods*, a
260 closely ranked second barrier was *inadequate guidance from institutional authorities*. The full
261 range of ranked responses is included in Table S1 along with the most commonly reported
262 responses regarding what resources are needed for teaching and how public health and/or
263 institutional restrictions have interfered with teaching needs (Figure 2). Respondents were also

264 asked to rank order (from most to least important) their *biggest concerns* related to teaching
265 clinical assessment courses in a modified format. There was somewhat less heterogeneity in
266 responses to this item, with the number one concern related to *ability to effectively meet original*
267 *course objectives*, and the number two most frequently ranked concern being *ability to*
268 *adequately prepare students for clinical practica*. Health and safety risks, and test security or
269 copyright issues were less frequently endorsed as concerns (Figure 3). Full rankings are outlined
270 in Table S2.

271 3.3 Training/Supervision

272 Over three-quarters (77.4%) of psychologists were involved in providing clinical
273 assessment training and supervision as part of a practicum or internship placement. About half
274 (51.4%) of these psychologists work at both practica and internship sites, 38.3% at practica sites
275 only, and 10.3% at internship sites only. The primary settings that psychologists train and
276 supervise students in is depicted in Figure 4, with one out of two (53.3%) working in a hospital
277 or other publicly-funded healthcare centre. Nearly all respondents stated their training and
278 supervision activities involve direct patient/client contact (99.1%). When asked how prepared
279 they feel to adapt their clinical assessment training and supervision of students in the 2020–2021
280 academic year, respondents most commonly said they felt *adequately prepared* (44.9%) or *not*
281 *well prepared* (37.4%), with fewer extreme ratings (*very unprepared* [5.6%]; *very well prepared*
282 [4.7%]). The remaining 7.5% indicated that they will not be training or supervising students at
283 this time.

284 When psychologists were asked about how they have adapted/considered adapting their
285 clinical assessment training and supervision to comply with physical distancing requirements in
286 their jurisdiction, over half (57.0%) of them said that it will occur in a blended format (e.g.,

287 virtual and in-person). Fewer respondents said that training and supervision will take place
288 entirely remotely (e.g., videoconference; 16.8%), or that it will not be offered until in-person
289 training and supervision can take place again (7.5%). One-tenth (10.3%) endorsed the “Other”
290 option, with most describing that they were undecided or awaiting confirmation from
291 institutions. Decisions regarding adaptations to clinical assessment training and supervision were
292 made in a variety of ways, including in collaboration with clinical leaders (29.0%) or with other
293 practitioners (16.8%), imposed by institutions (16.8%), or on an individual basis (2.8%). One-
294 fifth (19.6%) responded “Other” and described that it was a combination of the above and, in
295 some cases, decisions were made differently for clinical assessment training versus supervision
296 activities.

297 Respondents were also asked to rank order (from most to least important) their *biggest*
298 *barriers* related to effectively carrying out their clinical assessment training and supervision at
299 this time. The number one endorsed barrier was *clinic or clinical service closures*. The frequency
300 of endorsement of other barriers was fairly evenly distributed, with the next most important
301 barriers being *students are restricted from training on-site*, followed by *inadequate resources*
302 (*e.g., technological, personal protective equipment [PPE]*). Respondents often described needing
303 more of the following resources: digital assessment tools and equipment, funding to purchase
304 digital tools/equipment, PPE, testing space, and staff support. Ranked responses are further
305 summarized in Figure 5 and Table S3. When asked to rank order (from most to least important)
306 their *biggest concerns* related to clinical assessment training and supervision given the
307 adaptations that have been considered/made, the most frequent concern was *ability to effectively*
308 *train and evaluate students on standardized assessment methods/threats to assessment validity*.

309 The second most frequent concern was *health safety risks to myself, students, and/or*
310 *clients/patients* (see Figure 6). A full summary of ranked responses is presented in Table S4.

311 Respondents were also asked how expectations about student training should be adjusted
312 given the current barriers to in-person clinical assessment training and were provided with an
313 array of options to rank order (from most to least important). Respondents most commonly
314 asserted that they felt students could be expected to have *fewer clinical hours for practica and*
315 *internship*, and secondly that students should *gain foundational competency in tele-psychology*
316 *assessment procedures*. Respondents indicated that it was relatively less important to expect that
317 students receive *greater emphasis on theoretical components and less experience with practical*
318 *components in first year assessment classes*, and less important that we expect students to gain
319 *knowledge of the ethics of tele-psychology*. Among those who endorsed the “Other” option,
320 responses were mixed indicating a diversity of perspectives on this issue. While some
321 respondents indicated that internship should not be delayed, others indicated that the quality of
322 training should not be lowered and therefore students’ progress may need to be delayed before
323 they advance to the next stage of training. The ethical issue of supervisors not being adequately
324 prepared to train students in tele-psychology was also raised.

325 **3.4 Qualitative Themes**

326 For each of the three open-ended questions, responses were categorized into core themes,
327 with several themes overlapping across survey items. A description of each identified theme as it
328 relates to each question is provided below and listed in order based on the number of responses
329 that contributed to each theme (from most to least.) A summary of the number of responses per
330 theme is provided in Table 3.

331 **3.4.1 Useful strategies and tools**

332 Five main themes were identified for the item “Describe any other strategies you are
333 using or considering at this time to manage clinical assessment training issues. In particular, are
334 there any tools that have been particularly useful that you would like to share with others?”

335 **3.4.1.1. Technology.** Most psychologists reported using different types of
336 videoconference software to provide clinical services (e.g., Zoom, Ontario Telemedicine
337 Network, Jane Practice Management software). Some psychologists reported using the online
338 resource library from test publishers (e.g., pre-recorded webinars, Pearson’s Q-Global resource
339 library).

340 **3.4.1.2. Assessment protocol changes/challenges.** A number of psychologists expressed
341 that they are not conducting specific types of assessments (e.g., “At this time in my practice, I
342 cannot conduct Learning Disability, ADHD and Autism related assessments, therefore, I am not
343 able to offer any training”) or are switching to other types of assessments (e.g., “Many types of
344 assessment have been able to happen via telehealth (diagnostic interviews, questionnaires) but
345 manipulatives have not.”) Lastly, several respondents reported using a hybrid approach “where
346 testing is done in-person, masked, with a plexiglass tabletop screen, and interviewing, feedback,
347 and supervision are done virtually.”

348 **3.4.1.3. Training adjustments.** Psychologists reported using old case material to teach
349 students how to score, write reports, and conceptualize cases. In addition, psychologists shared
350 that students will observe virtual assessments, participate in mock interviews, and/or watch
351 webinars that will help students learn how to administer tests.

352 **3.4.1.4. Program/internship adjustments.** Responses within this theme were more
353 varied, but generally respondent strategies/tools included: a) reducing the number of trainees for
354 next year; b) emphasizing the teaching of assessment theory and/or delaying practical

355 components until later in the semester; and c) facilitating assessment experience as part of
356 inpatient rotations.

357 **3.4.1.5. Administrative burden/challenge.** Most respondents reported that they are still
358 in the planning stage and/or waiting to hear from their respective institutions or regulatory bodies
359 as to the best avenues with respect to conducting psychological assessment activities.

360 **3.4.2 Overcoming barriers**

361 Five main themes were also identified for the item “Describe any other barriers you have
362 encountered at this time in relation to clinical assessment training issues. In particular, how have
363 you overcome these barriers?”

364 **3.4.2.1. Assessment protocol changes/challenges.** Several respondents reported a lack
365 of funding to purchase equipment (e.g., plexiglass, online tests/questionnaires, tablets), and
366 security or copyright issues related to acquiring digital assessment tools, in order to provide
367 physically distanced or remote assessment experiences to trainees. In addition, some reported
368 that they have stopped providing any clinical assessment services altogether due to the lack of
369 resources. Respondents working clinically with children and seniors also indicated significant
370 concerns with respect to validity of remote or online assessments, with some indicating they
371 have decided to stop providing this type of service, further impacting associated clinical training
372 opportunities.

373 **3.4.2.2. Administrative burden/challenge.** Overall, respondents indicated experiencing
374 a significant administrative burden related to adapting assessment activities (e.g., devising safety
375 plans, purchasing supplies, managing e-mails and scheduling). Some respondents reported that
376 their institutions and/or professional regulatory bodies are not providing adequate
377 recommendations or guidance with respect to re-opening services.

378 **3.4.2.3. In-person training challenges.** Respondents shared that it is difficult to continue
379 offering services while maintaining health and safety due to inadequate physical space (e.g.,
380 “because of the restrictions in number of people in the office, we cannot offer students office
381 space or sit in on client sessions and do[*not*] have the technology to support them.”) Others
382 indicated that practicum students are restricted from accessing sites, whereas interns are able to
383 continue onsite training. Lastly, several respondents noted needing to address student stress and
384 anxiety in relation to their training activities under the current circumstances.

385 **3.4.2.4. Training adjustments.** A concern emerged that it has been difficult to provide
386 training experiences in tele-assessment because psychologists feel they need to first master these
387 skills themselves and feel that students need to acquire foundational skills in standardized in-
388 person test administration. Some respondents reported a need to prioritize training opportunities
389 for senior students and/or interns due to the logistics of space restrictions and related COVID-19
390 health and safety protocols. In some cases, practica have been delayed, and some respondents
391 indicated they will aim to offer concentrated assessment training opportunities to make up for
392 lost time.

393 **3.4.2.5. Uncertainty in how to provide proper training.** The majority of respondents
394 indicated barriers to planning and uncertainty around the extent to which they will be able to
395 provide meaningful teaching, training, and supervision experiences in the upcoming academic
396 year due to shifting public health measures and guidelines. Others indicate uncertainty about
397 when training clinics will re-open given contradictory messaging and lack of clear information
398 from institutions. Some respondents also expressed that students are struggling with uncertainty
399 about what their clinical training will look like in the context of a hybrid delivery model.

400 ***3.4.3 Meeting needs***

401 Seven main themes were identified in relation to the question: “Describe any other needs
402 you have at this time in relation to managing clinical assessment training issues. In particular, do
403 you have any specific suggestions as to how these needs may be best met?”

404 **3.4.3.1. Assessment protocol changes/challenges.** Overall, respondents reported that
405 statements by regulatory bodies and associations with respect to the validity of various
406 assessment training and delivery methods needs to be published as soon as possible. They further
407 indicated the urgent need to conduct more research in the area of tele-assessment so clinicians
408 and patients are reassured that despite completing the assessments online, the validity is not
409 compromised.

410 **3.4.3.2. Technology.**¹ Psychologists primarily reported similar suggestions for
411 technology as already mentioned above (section 3.4.1.1). However, respondents also offered that
412 “in-person work is familiar but not necessarily more effective, and that telepsychology is
413 efficient, effective, and good for people's work/life balance and the environment.”

414 **3.4.3.3. What can be done to replace direct in-person training.** To address the need to
415 meet in-person training requirements, students have been assigned more independent reading,
416 they are observing other psychologists’ assessments to gain more experience, and practicing
417 assessment skills with their peers. One respondent mentioned using webinars by the International
418 Neuropsychological Society to provide didactic opportunities to students (i.e., [https://www.the-
419 ins.org/education/webinar-ce/](https://www.the-ins.org/education/webinar-ce/)).

420 **3.4.3.4. Program/internship adjustments.** With respect to internship adjustments, a
421 respondent reported that “academic programs will have to make adjustments to the number of
422 expected training hours for students[...]. Doing so will lessen the stress on both the students and

¹ Tied for number of responses (n = 7) with theme 3—*what can be done to replace direct in-person training*.

423 the clinical directors.” Another noted, “we are just adjusting our expectations and encouraging an
424 environment of patience taking each case individually as we adjust. For us, it seems to be more
425 of a shift in our own attitudes and expectations.” In contrast, another respondent said,
426 “Residencies being asked to be flexible in accepting fewer practica training hours of applicants
427 but also being expected to get (potentially under-qualified) residents up to exit criteria and
428 licensing-ready[...] will create strain on supervisors and supervisees.” Respondents also
429 suggested that where possible, trainees may want to pause their progress and consider gaining
430 additional experiences before applying for internship.

431 **3.4.3.5. Uncertainty in how to provide proper training.**² Respondents indicated that
432 “More information is what is needed urgently at this time with September really not that far
433 away if we are required to pivot our assessment course in a substantive manner.” At the same
434 time, another respondent noted that although “specific guidelines would be great[...]I think we
435 as a profession are really not there, as is the case for most other professions as well at this point.
436 [G]iven our propensity for research though, I think there is an onus on us to quickly increase our
437 level of research on remote assessment as a standard form of practice and training.”

438 **3.4.3.6. Ethical issues/concerns.** Respondents endorsed significant concerns with respect
439 to how valid the assessment training experiences they can offer will be. Some stated that
440 “students may need to take more time to complete their programs. Sacrificing competency to
441 ensure they graduate at the same pace is not appropriate or ethical. We need to teach trainees to
442 be resilient and to recognize that it is not ethical to forego proper training.”

² Tied for number of responses (n = 5) with theme 6—*ethical issues/concerns*.

466 needs identified: funding, PPE, technological equipment, and empirically validated digital
467 assessment tools. Lack of these resources seemed to be related to some of the predominant
468 concerns around training and supervision, which were threats to the validity of assessment and
469 health safety risks. Interestingly, it was noted that when respondents were asked how prepared
470 they felt to modify their teaching, training, and supervision of assessment activities at this
471 juncture, the responses were largely evenly split between feeling prepared and feeling
472 unprepared. There were also mixed perspectives on the extent to which expectations around
473 training requirements should be adjusted.

474 Thematic analysis of responses to the three open-ended survey items revealed nine key
475 themes overall, some of which partially overlapped across the items. The themes were
476 characterized as: a) assessment protocol changes/challenges; b) administrative
477 burden/challenges; c) ethical issues/concerns; d) in-person training challenges; e)
478 program/internship adjustments; f) uncertainty in how to provide proper training; g) technology;
479 training adjustments; and h) what can be done to replace direct in-person training. Embedded
480 within the themes were descriptions of strategies that psychologists have adopted to overcome
481 barriers and meet clinical training needs.

482 **4.1 Key Considerations for Moving Forward**

483 The scope of the impacts of COVID-19 on clinical psychological assessment training
484 runs broad and deep, placing the field of psychological assessment at a critical crossroad. Indeed,
485 we can either remain paralyzed by our traditional methodologies or we can seize the opportunity
486 for a paradigm shift while capitalizing on the technological zeitgeist that has emerged in recent
487 years. To this end, and in light of our survey findings, we propose four key considerations for

488 psychologists as we collectively move forward with our assessment training activities in the
489 COVID-19 era and beyond.

490 *4.1.1 Research embedded in clinical practice*

491 It is abundantly clear from the survey results that there are current concerns about threats
492 to assessment validity whenever there is a need to modify in-person standardized practices to
493 accommodate physically distanced (e.g., in-person with protective barriers) or virtual testing.
494 These concerns are a direct product of the lack of psychometrically valid tele-assessment tools
495 and limited empirical evidence to support adaptations to existing tools that rely on in-person
496 administration. Such concerns will necessarily impact our ability to effectively train the next
497 generation of professional psychologists and ensure foundational competency in assessment
498 skills against an evolving technological backdrop. In the most recent critical review of
499 teleneuropsychology practices specifically, there is emergent evidence for good validity of
500 cognitive tests administered virtually to adults (Brearily et al., 2017; Marra et al., 2020).
501 However, this evidence base is far too limited and significantly lags behind current clinical
502 needs, especially in the paediatric domain. If this knowledge-practice gap is not urgently
503 addressed, we risk compromising the integrity of the field as it fails to keep pace with
504 technological growth (Miller & Barr, 2017). Indeed, it is clear that psychologists in many
505 settings are compelled to cautiously move forward with modified procedures at this time, while
506 carefully weighing decisions against our ethical obligations when delivering psychological
507 services electronically (CPA, 2020). Targeted and rigorously designed studies will always be
508 essential to demonstrating the efficacy of new measures and methodologies, but there is now an
509 opportunity to excel this effort by embedding research activities within clinical assessment
510 practices. Psychology clinics affiliated with professional graduate training programs and

511 community-based clinics (public and private) should consider making adjustments to their
512 consent forms that would allow for retrospective studies and program evaluation to track
513 patient/client outcomes in the context of modified or virtual assessments and how these compare
514 to conventional standardized assessments. Students can be directly engaged with these research
515 activities as part of their assessment training experience, in the spirit of the scientist-practitioner
516 model of training.

517 ***4.1.2 Funding structures***

518 Lack of adequate funding for digital tools and equipment was a predominate theme of
519 this survey. In order to keep pace with the digitization of the assessment landscape, we must
520 advocate for support from institutions to ensure that the funding structures are in place to support
521 evolving assessment training needs. *Technology and professional practice* have been identified
522 as among the most pressing needs to consider in the future of professional psychology training,
523 and this coincides with CPA's call for university and practice settings to jointly fund
524 interprofessional education training activities (Mikail & Nicholson, 2019). Such funding should
525 necessarily budget for the purchase of up-to-date digital tools (i.e., test administration software
526 and licenses, secure videoconference platforms etc.) and equipment (i.e., iPads, laptops,
527 document cameras, webcams etc.), and funds to support the maintenance of these resources (i.e.,
528 IT support).

529 With ongoing developments in artificial intelligence and its applications to healthcare, the
530 field of professional psychology could lag even further behind if we do not consider how these
531 advanced technologies interface with our training and practice (e.g., Miller & Barr, 2017;
532 Hagstrom & Maranzan, 2019). Not surprisingly, a recent Canadian survey revealed cost as a
533 major barrier to the integration of advanced technologies in psychology training programs, with

534 the majority of academic and internship training directors indicating that students do not receive
535 training in the use of technology to deliver clinical care (Hagstrom & Maranzan, 2019). To this
536 end, funding structures should also recognize the need to support continuing education activities
537 related to enhancing technology literacy more broadly for both students and psychologists
538 involved in assessment training. As an example, this could involve financial support to attend
539 specialized workshops and conferences, or to invite experts to provide in-service training on the
540 use of advanced technologies in healthcare. It behooves us to ensure we are well-equipped with
541 the appropriate digital tools, equipment, and knowledge otherwise we risk failing to uphold our
542 professional standards in psychology training.

543 ***4.3.3 Coordinated communication within and between university programs and training sites***

544 Another important consideration is the clear need for open and ongoing communication
545 and sharing of methodologies and strategies among professional psychology training programs,
546 practica, and internship sites. At the inter-site level, survey results indicate a high level of
547 uncertainty and concern surrounding barriers to effective teaching and adequate preparation of
548 trainees for practica and internship, as well as mixed opinions as to how expectations for training
549 should be adjusted both in the short- and longer-term. For instance, with hospital training sites
550 indicating a shift towards blended and remote assessment techniques, there will be a need for
551 professional psychology programs to provide training in these types of protocols to ensure
552 students are equipped with the tools they need to fully engage in practica and internship
553 activities. Continued dialog with external training sites will also be important to ensure
554 professional training programs are meeting the needs of students in this respect. In this vein, it
555 may be beneficial for representatives from training programs, practica and internship sites, and
556 regulatory bodies (e.g., CCPPP, CPA, Association of Canadian Psychology Regulatory

557 Organizations [ACPRO]) to collaboratively develop guidelines for training and competencies in
558 technologically-informed and telehealth practices, including assessment training.

559 At the local level, maintaining frequent and open dialogue between instructors,
560 supervisors, and administrators of different aspects of professional psychology training (e.g.,
561 intervention, assessment, rehabilitation, etc.) is also extremely important to ensure issues specific
562 to each of these practice areas are efficiently monitored and dealt with. With this in mind, it may
563 be prudent for training programs to incorporate subcommittees to advocate and problem-solve
564 issues in relation to each practice area, and include representatives who are faculty members,
565 clinical supervisors, and professional practice leaders. In the context of assessment training and
566 supervision, such a committee could work to ensure that training plans are up-to-date and as
567 adaptable to public health and institutional safety requirements and constraints as possible so that
568 barriers faced at the outset of the pandemic are not renewed during a possible second wave or a
569 future epidemic.

570 ***4.4.4 Redefining scope of the field***

571 An overarching theme that has become apparent is the opportunity for the field of
572 psychology, and specifically the subfield of assessment, to examine and re-establish its footing
573 with respect to domain and scope in the context of the ever more rapid (non-abating) digitization
574 of the 21st century. There are a number of important reasons that training and supervision of
575 psychology students not only include, but emphasize incorporation of technology wherever
576 possible, and that practitioners and researchers in the field continue to work to expand their
577 repertoire of valid and accessible assessment technology. It is now clear that technologically-
578 informed psychological practice will not recede into the background, but will be what propels
579 our profession forward, and as such, formal training in technologically-informed assessment will

580 (and for all intents and purposes, must) become a requirement for asserting competence in this
581 domain (Bilder et al., 2020; Mikail & Nicholson, 2019). Despite this forgone conclusion, recent
582 research indicates that only a small number of training programs in Canada (23% of academic,
583 36% of internship) report any level of training in the use of technology in mental healthcare
584 (Hagstrom & Maranzan, 2019).

585 The COVID-19 pandemic has also exposed longstanding systemic racism and social
586 inequalities in its disproportionate impact on the health of marginalized racial groups in the
587 United States and beyond (Devakumar et al., 2020; Tai et al., 2020). These health impacts are
588 compounded by a series of recent events of violence towards, and deaths of, Black Americans
589 that garnered global attention and movement (Devakumar et al., 2020), inciting an urgent call to
590 action within our field to ensure assessment training and services are appropriately inclusive and
591 tailored to diverse client characteristics, and that our assessment tools are intentionally validated
592 for use with diverse groups. Integration of remote assessment techniques is not only relevant
593 during the pandemic but ensures that assessment services can be made available to often
594 underserved individuals such as those in rural and northern communities (Mikail & Nicholson,
595 2019). These assessment techniques also allow for service provision to those who may have
596 significant hardship attending in-person assessments due to physical or other mental health
597 difficulties.

598 To a great extent, the fate of cognitive assessment as a subfield may hang in the balance
599 at this juncture. The advent of technological solutions, which are thus far largely untested and
600 not validated in the rigorous way that psychologists insist upon, has been steadily led by persons
601 outside the field of psychology, promising faster and simpler solutions to the questions we aim to
602 answer with our assessments. These automated measures infringe on our scope of practice and

603 pose a real threat to the field of assessment and to public safety when used by unqualified
604 persons (Miller & Barr, 2017; CPA, 2019). Psychologists must act quickly to validate and adopt
605 more technologically-informed solutions themselves to re-establish footing in this domain.
606 Psychologists have been and continue to be the foremost experts in behavioural measurement,
607 and we must continue to work to ensure that we become those experts in virtual and remote
608 assessments, and that we stand as the innovators of virtual test development moving forward.

609

610 **5.0 Conclusions**

611 The results of this survey on clinical assessment training issues in the COVID-19 era
612 provide an overall snapshot of the state of the field and key considerations for moving forward as
613 psychologists prepare to adapt teaching, training, and supervision assessment activities. Lack of
614 funding, digital materials, and knowledge of virtual assessment methods is a notable gap in the
615 field and this intersects with ethical issues pertaining to professional training standards. Careful
616 monitoring of these professional training issues in the coming months and years is warranted.

617

618 **6.0 Acknowledgments**

619 The authors would like to acknowledge the assistance of members of the Clinical
620 Neuropsychology Section Executive Committee of the CPA and the Assessment Training Issues
621 in the COVID-19 Era Working Group in creating this survey. Additionally, the authors would
622 like to thank Puneet Parmar for assisting with survey programming.

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695 **Table 1**
696 *Survey Respondents by Geographic Location in Canada*

Province/Territory	n	%
Alberta	13	7.9
British Columbia	19	11.6
Manitoba	4	2.4
New Brunswick	3	1.8
Newfoundland/Labrador	1	0.6
Nova Scotia	7	4.3
Ontario	99	60.4
Quebec	16	9.8
Saskatchewan	2	1.2

697 *Note. N = 164.*

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699

700

701 **Table 2**
 702 *Primary Area(s) of Practice Related to Clinical Assessment Activities*

	n	%
Area(s) of Declared Competency		
Clinical	113	46.1
Neuropsychology	70	28.6
Rehabilitation	16	6.5
Forensic/Correctional	9	3.7
Health	8	3.3
Industrial/Organizational	1	0.4
School	20	8.2
Counselling	6	2.5
Other	2	0.8
Client/Patient Group		
Children	77	28.9
Adolescents	88	25.0
Adults	113	32.1
Seniors	42	11.9
Couples	3	0.9
Families	27	7.7
Organizations	2	0.6

703 *Note. N = 164. Respondents could select more than one option.*

704

705

706 **Table 3**
 707 *Summary of core themes with the number of answers per theme*

Core themes	Questions		
	Useful strategies/tools ^a	Overcoming barriers ^b	Meeting needs ^c
Assessment protocol changes/challenges	22	20	15
Administrative burden/challenges	9	16	-
Ethical issues/concerns	-	-	5
In-Person training challenges	-	15	2
Program/internship adjustments	10	-	6
Uncertainty in how to provide proper training	-	9	5
Technology	26	-	7
Training adjustments	10	11	-
What can be done to replace direct in-person training	-	-	7

708 *Note.* ^aN = 77; ^bN = 71; ^cN = 47

Figure Captions

Figure 1

Psychologist Roles with Respect to Assessment Training

Figure 2

Barriers to Effectively Carrying Out Teaching Duties Ranked as Most Important

Figure 3

Concerns Related to Teaching in a Modified Format Ranked as Most Important

Figure 4

Psychologist Practice Settings

Figure 5

Barriers to Effectively Carrying Out Clinical Training and Supervision Ranked as Most Important

Figure 6

Concerns Related to Clinical Training and Supervision in a Modified Format Ranked as Most Important