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Logging into therapy: Adolescent perceptions of online therapies for mental health problems

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Logging into therapy: Adolescent perceptions of online therapies for mental health problems

Objectives: This study describes adolescent attitudes towards online therapies and explores the factors that predict these attitudes.

Method: Australian adolescents (N=217) were surveyed on their knowledge of, attitudes towards (including perceived problems, perceived benefits, and perceived helpfulness), recommended availability of, and intentions to use online therapies. In addition, demographic and clinical factors, factors relating to technology use, adolescents’ mental health attitudes, and personality traits were also measured.

Results: The findings suggested that 72.0% of adolescents would access an online therapy if they experienced a mental health problem and 31.9% would choose an online therapy over traditional face-to-face support. The most valued benefits of these programs included alleviation of stigma and increased accessibility. Knowledge of online therapies was found to positively predict perceived helpfulness and intended uptake.

Conclusions: This study provides insight into adolescent attitudes towards online therapies and highlights the need to investigate strategies for increasing uptake.

Keywords: online; adolescent; attitudes; services; mental health
1. Introduction

The emergence of mental health problems during adolescence is well documented and the evidence supporting psychological intervention during this period is clear (Lawrence et al., 2015; Lee, Horvath, & Hunsley, 2013; Chorpita et al., 2011). However, even gold standard treatments are ineffectual if young people in the community do not access them. At present, an estimated 35% of Australian adolescents with clinical mental health disorders fail to utilise professional services (Lawrence et al., 2015). It is evident that more needs to be done to ensure young people access support for their mental health.

There are a number of barriers that prevent young people from accessing mental health services, including, perceived stigma (Gulliver, Griffiths, & Christensen, 2010), an expectation or preference for self-reliance (Wilson, Bushnell, & Caputi, 2011), concerns around confidentiality (Gulliver et al., 2010), and a lack of knowledge and accessibility of services (Gulliver et al., 2010). One of the most recent strategies to circumvent such barriers has been online service delivery.

Online therapies are well-placed to address barriers to mental health services (Elkins, McHugh, Santucci, & Barlow, 2011; Hosie, Vogl, Hoddinott, Carden, & Comeau, 2014). The efficacy of online therapies is well established in the treatment of a number of mental health conditions (including depression, anxiety, substance misuse, and more) among adolescents (Donovan & March, 2014; Ebert et al., 2015; Reyes-Portillo et al., 2014). Online treatment programs have also demonstrated comparable efficacy to face-to-face psychotherapy (Christensen et al., 2014; Sethi, 2013; Spence et al., 2011). In addition, while not all programs have been disseminated, there are still a number of programs that are currently available to adolescents, such as MoodGYM (O’Kearney, Gibson, Christensen, & Griffiths, 2007), OCD? Not Me (Rees, Anderson, & Finlay-Jones, 2015), BRAVE Self-Help (March,
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Spence, & Donovan, 2009), *OnTrack Get Real* (Queensland University of Technology, 2015), and *MindSpot Mood Mechanic* (Titov et al., 2015).

Unfortunately, uptake of online therapies remains low (Lawrence et al., 2015). There is evidence to suggest that young people consider the choice to access mental health services online as being up to them, in contrast to accessing face-to-face services, where they feel more strongly influenced by their family (Rickwood, Mazzer, & Telford, 2015). Following this, if young people perceive greater independence in the decision to seek online support, then understanding adolescents’ attitudes towards these services may inform strategies to improve uptake.

Only three studies to date have asked young people about their perceptions of online therapies. Of these, two featured university students (Horgan & Sweeney, 2010; Mitchell & Gordon, 2007) and one examined adolescents’ attitudes towards online counselling (Glasheen et al., 2015). Intentions to access online therapies have been found to be consistently high among university students, although they maintain a preference for face-to-face alternatives (Horgan & Sweeney, 2010; Mitchell & Gordon, 2007). University students also appear to value the benefits of online therapies, including privacy, accessibility, anonymity, and confidentiality (Horgan & Sweeney, 2010; Mitchell & Gordon, 2007). Finally, Glasheen et al. (2010) found that 80-84% of adolescents would consider using online counselling if it was available at school. They also found that adolescents preferred going online to discuss sensitive issues (such as sexuality), and preferred face-to-face support for other topics (such as peer conflict, bullying, and guidance). Perhaps adolescents perceive online services as more appropriate for issues around which there is a greater perceived stigma.

It appears that the benefits of accessibility and privacy offered by online therapies may encourage young people to use these programs, yet are insufficient for them to prefer online therapies, over face-to-face support. This suggests that additional factors may be
influencing their service decisions. Research in this area is clearly in its early stages and limited in its current scope and depth, particularly in relation to the adolescent population. However, understanding adolescents’ attitudes towards these programs is an important step towards informing strategies to increase the uptake of mental health treatment.

In addition to understanding the content of adolescents’ attitudes, examining the factors that influence these attitudes may also inform strategies for increasing uptake. To date, research exploring the factors contributing to attitudes towards online therapies has been limited to adults (Becker & Jensen-Doss, 2013; Tsan & Day, 2007), health professionals (Donovan, Poole, Boyes, Redgate, & March, 2015; Stallard, Richardson, & Velleman, 2010; Fleming & Merry, 2013; Gun, Titov, & Andrews, 2011), and parents (Sweeney, Donovan, March, & Laurenson, 2015). Based on this literature, factors that may influence service preferences have included personality, technology use, and knowledge or experience with online therapies. Though yet to be studied in the online therapy literature, stigmatised attitudes towards mental health have also been linked to poor psychological help-seeking in adolescents (Clement et al., 2015; Cometto, 2014; Jorm, 2012), and thus warrants consideration. Examination of the factors influencing adolescents’ attitudes and intentions to use online therapies is absent to date.

Following this, the first aim of the present study was to detail adolescents’ perceptions of online therapies, including 1) knowledge of online therapies, 2) attitudes towards online therapies (perceived problems, perceived benefits, and perceived helpfulness), 3) intentions to use online therapies, and 4) recommended availability of online therapies. The second aim was to assess factors predicting attitudes and intentions to use online therapies. Adolescent factors of interest included, 1) demographic and clinical factors, 2) technology factors, 3) knowledge of online therapies, 4) mental health attitudes, and 5) personality factors.
2. Method

2.1 Procedure

Following ethical clearance, participants from the general community were recruited via Facebook posts on youth interest groups, and advertising through secondary schools. All recruitment materials featured a link to access the online information/consent form and survey site. Participants were encouraged to voluntarily discuss participation with their parents prior to giving consent. After providing informed consent, participants were directed to an online survey. Upon completion, participants were offered the opportunity to submit their email address for entry into the draw to win an iPad Mini. All participants were invited to contact the authors for a summary of results from the study.

2.2 Measures

To the best of our knowledge, there is an absence of psychometrically validated measures that assess adolescent perceptions of online therapies. Subsequently, the present study utilised a number of author-developed measures that were adapted from those used in prior online therapy research (with adults and clinicians) and/or developed in consultation with research colleagues in the field.¹

2.2.1 Online therapy knowledge.² A 14-item true-false test was developed to assess knowledge of online therapies (e.g. ‘All online therapies involve therapist contact’). Items were generated in collaboration with researchers in the online therapy field to ensure external validity. Correct responses were summed to produce a total score (ranging from 0-14), with higher scores indicating greater knowledge of online therapies.

2.2.2 Online therapy attitudes. Adolescents’ attitudes towards online therapies were measured using an author-developed questionnaire adapted from previous research in the

¹ Contact the authors for additional details.
² Contact the authors for additional details.
field (Stallard et al., 2010; Klein & Cook, 2010). The questionnaire comprised of three scales: perceived problems, benefits, and helpfulness.

2.2.2.1 Perceived problems. Perceived problems with online therapies were measured with a 10-item scale whereby participants rated the degree to which they thought each item (e.g. ‘Finding time to do it’) was problematic on a five-point scale (1=not at all problematic to 5=extremely problematic). Responses were summed to produce a total score that could range from 10 to 50, with higher scores indicating greater perceived problems with online therapies (Cronbach’s α=.85).

2.2.2.2 Perceived benefits. Perceived benefits of online therapies were measured with a 9-item scale whereby participants rated the degree to which they thought each item (e.g. ‘Use at home’) was beneficial on a five-point scale (1=not at all beneficial to 5=extremely beneficial). Responses were summed to produce a total score that could range from 9 to 45, with higher scores indicating greater perceived benefits of online therapies (Cronbach’s α=.95).

2.2.2.3 Perceived helpfulness. Participants rated how helpful they considered online therapies in the treatment of adolescent mental health problems, on a single-item five-point scale (1=not helpful at all, to 5=extremely helpful).

2.2.3 Intention to use services. Adolescents’ intentions to use services were measured using a 5-item author-developed questionnaire adapted from previous research (Stallard et al., 2010; Klein & Cook, 2010). Items 1-4 were used for descriptive purposes. Item one asked adolescents to rate how likely they would be to use eleven mental health services (e.g., ‘Psychologist’) on a five-point scale (1=not at all likely to 5=extremely likely). Item two asked adolescents to report whether they would access an available online therapy program if they experienced mental health problems (yes/no). Item three asked adolescents to state their preference for face-to-face or online therapy. Item four asked adolescents to
indicate their preferred modes of access to online therapies (i.e. ‘Smartphone’, ‘Tablet’, ‘CD-ROM’, ‘Internet’, and ‘Virtual reality’), with the option to select multiple modes. The fifth item was used as the outcome variable and asked adolescents to rate their intention to use an online therapy on a five-point scale (1=not at all likely to 5=extremely likely).

2.2.4 Recommended availability. Participants were asked if they believed online therapies should be made available to adolescents in six different ways (i.e. ‘Available for use in school’). Responses were scored on a five-point scale (1=definitely yes to 5=definitely no).

2.2.5 Additional predictor variables. The second aim of the study was to assess factors predicting perceptions of online therapies, including: demographic and clinical factors, technology factors, knowledge of online therapies (2.2.1), mental health attitudes, and personality factors.

2.2.5.1 Demographic and clinical factors. Demographic factors included gender (male/female), age (years), and residential location (urban/rural). Clinical factors included total number of self-reported mental health problems (2.1.2) and prior experience with online therapies (yes/no).

2.2.5.2 Technology factors. Participants reported if they had access (yes/no) to four technologies (personal computer, internet, smartphone, and tablet), with responses summed to produce a technology access score (ranging from 1-4). Participants rated their confidence in using each of these technologies on a five-point scale (1=not confident at all to 5=very confident), with scores summed to produce a technology confidence score (ranging from 1-20, Cronbach’s α=.86). Participants also rated their liking for using new technologies on a single-item five-point scale (1=strongly dislike to 5=strongly like).

2.2.5.3 Mental health attitudes. The 19-item Attitudes scale of the Mental Health Questionnaire (Sheffield, Fiorenza, & Sofronoff, 2004) was administered to measure attitudes towards mental illness. Participants rated their agreement with each statement on a six-point
scale (1=strongly disagree to 6=strongly agree). Items were summed to provide a total score ranging from 19-114, with higher scores indicating more negative attitudes towards mental health (Cronbach’s α=.90).

2.2.5.4 Personality factors. The 44-item Big Five Inventory (BFI; John, Donahue, & Kentle, 1991; John, Naumann, & Soto, 2008) was administered to measure personality traits. Previous research estimates the BFI subscales to have adequate internal consistency (r=.83), convergent validity with other personality measures (John et al., 2008), and adequate validity in an adolescent sample (Fossati, Borroni, Marchione, & Maffei, 2011). Participants were asked to rate their agreement with each item on a five-point scale (1=strongly disagree to 5=strongly agree). The mean was calculated for each of the five subscales to produce a subscale score ranging from 1-5, such that higher scores on each subscale indicate greater characteristic endorsement.

2.3 Data Analytic Plan

The analyses were divided into two sections corresponding to the two aims of the study. Descriptive statistics were used to describe adolescents’ 1) knowledge, 2) attitudes (perceived problems, benefits, and helpfulness), 3) intentions to use, and 4) recommended availability of online therapies.

The second aim of the study was to assess factors predicting adolescent attitudes and intentions to use online therapies. A series of four hierarchical multiple regression analyses (HMRs) were conducted, one for each of the four outcome variables (perceived helpfulness, problems, benefits, and intentions to use online therapies). Adolescent factors examined included demographic and clinical factors (gender, age, residential location, number of mental health problems, experience with online therapies), technology factors (liking, access, confidence), knowledge of online therapies, mental health attitudes, and personality factors (extraversion, agreeableness, conscientiousness, neuroticism, openness). The hierarchy was
determined in order to control for extraneous variables (step one: demographic and clinical factors), focus on factors presumed to be of greater importance to attitudinal outcomes (step two: technology factors, step three: knowledge of online therapies), and determine if factors identified in prior research had additional value (step four: mental health attitudes, step five: personality factors).

All analyses were conducted using IBM SPSS Statistics (Version 22.0). Power analyses determined that a sample size of 139 would be sufficient to detect a medium effect size, with a power of .80, an alpha of .05, and 15 predictors variables (Erdfelder, Faul, & Buchner, 1996); while a sample size of 954 would be sufficient to detect a small effect size with the same parameters. The current sample (N=217) is therefore adequately powered to detect a medium effect, yet underpowered to detect a small effect size.

3. Results

3.1 Participant characteristics

3.1.1 Demographics. Participants were 217 adolescents aged 13-18 years (M=16.98, SD=1.32), of whom the majority were female, resided in an urban location, had completed secondary school, and identified as single (see Table 1).

[Insert Table 1]

3.1.2 Mental health experiences. In total, 74.2% (n=191) of participants reported experiencing a mental health challenge, most commonly anxiety/worry (n=134, 61.8%), depression/mood (n=106, 48.8%), anger (n=82, 37.8%), bullying (n=57, 26.3%), and grief (n=45, 20.7%). One in three participants (n=81, 37.3%) reported previously accessing a mental health service, most commonly a counsellor (n=63, 29.0%), GP (n=55, 25.3%), psychologist (n=53, 24.4%), or information website (n=51, 23.5%). Only 3.7% (n=8) of participants reported experience with online therapies.
3.1.3 Technology use. Most adolescents reported access to at least one technology mode at home (n=210, 99.1%), reported at least liking (n=195, 92.0%) using technology, and were at least somewhat confident using computers (n=206, 97.2%), internet (n=210, 99.1%), smartphones (n=207, 97.6%), and tablets (n=192, 90.6%).

3.2 Perceptions of online therapies

3.2.1 Online therapy knowledge. Adolescents completed a quiz on online therapies. All items were correctly identified by less than half of participants, including: treatment effectiveness (n=90, 42.9%), interactivity (n=103, 49.0%), therapist contact (n=94, 44.8%), user satisfaction (n=47, 22.4%), availability (n=45, 21.4%), comparable helpfulness to face-to-face therapy (n=51, 24.3%), and program tailoring (12.4%, n=26). Few participants identified online therapies as effective treatments of anxiety (n=96, 45.7%) and depression (n=81, 38.6%).

3.2.2 Online therapy attitudes.

3.2.2.1 Perceived problems. The majority of adolescents rated the following factors as at least moderately problematic: the inability to ask questions (n=128, 61.5%), not finishing the program (n=116, 55.8%), information being too general (n=112, 53.8%), being without therapist support (n=107, 51.5%), and the privacy of personal information (n=106, 51.0%). Fewer adolescents considered losing interest (n=95, 45.7%), finding time (n=88, 42.4%), computer problems (n=81, 39.0%), computer access (n=80, 38.5%), and difficulty of tasks (n=78, 37.5%) to be problematic.

3.2.2.2 Perceived benefits. Over two thirds of participants rated the following factors as at least moderately beneficial: use at home (n=166, 79.9%), use any time (n=159, 76.4%), low cost (n=159, 76.4%), the alleviation of embarrassment (n=150, 72.1%), ability to track progress (n=150, 72.1%), ease of accessibility (n=150, 72.1%), avoiding waitlists to support

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3 Contact the authors for additional details.
(n=130, 62.5%), and greater interactivity that self-help resources (n=127, 61.1%). One in three considered programs being interesting (n=78, 37.5%) as beneficial.

3.2.2.3 Perceived helpfulness. The majority of adolescents perceived online therapies as helpful, albeit to different degrees. Approximately one in six did not find them helpful.

3.2.3 Intention to use. The majority of adolescents indicated they would access an online therapy (n=149, 72.0%), and a third indicated they would choose an online therapy (n=66, 31.9%) over face-to-face support. Figure 1 illustrates adolescent intention to use a variety of mental health services in the context of experiencing a mental health difficulty. Adolescents were at least moderately likely to access psychologists, information websites, and counsellors. Most adolescents were at least somewhat likely to access an online therapy and favoured use with therapist assistance.

3.2.4 Recommended availability. Adolescents strongly endorsed the availability of online therapies freely online, in schools, at the doctor, and in mental health clinics (see Figure 2). Around half of adolescents endorsed availability without professional support.

3.3 Predictors of perceptions of online therapies

Table 2 provides the means, standard deviations, and bivariate correlations for all variables. Table 3 provides statistics for the final model (step five) of each HMR for the four outcome variables: perceived problems, benefits, helpfulness and intentions to use online therapies. Predictor variables are grouped as demographic and clinical factors (1), technology factors (2), knowledge (3), mental health attitudes (4), and personality factors (5).
3.3.1 Perceived problems. In the final regression, adolescent factors failed to significantly predict perceived problems and accounted for only 11% of variance in the outcome, $R^2=.11$, $F=1.62(15,192)$, $p=.071$. No individual factors were found to significantly contribute to the prediction of perceived problems.

3.3.2 Perceived benefits. The final regression equation accounted for 25% of variance in the outcome of perceived benefits, $R^2=.25$, $F=4.23(15,192)$, $p<.001$. Demographic and clinical factors ($\Delta R^2=.07$, $\Delta F(5,202)=3.04$, $p=.011$), technology factors ($\Delta R^2=.07$, $\Delta F(3,199)=4.98$, $p=.002$), and mental health attitudes ($\Delta R^2=.09$, $\Delta F(1,197)=23.72$, $p<.001$) contributed significantly to the model. In the final model, greater technology liking and less stigmatized mental health attitudes significantly predicted greater perceived benefits.

3.3.3 Perceived helpfulness. The final regression equation accounted for 24% of variance in the outcome of perceived helpfulness, $R^2=.24$, $F=4.00(15,192)$, $p<.001$. Clinical and demographic factors ($\Delta R^2=.09$, $\Delta F(5,202)=3.96$, $p=.002$), technology factors ($\Delta R^2=.06$, $\Delta F(3,199)=4.33$, $p=.006$), knowledge ($\Delta R^2=.03$, $\Delta F(1,198)=7.39$, $p=.007$), and mental health attitudes ($\Delta R^2=.05$, $\Delta F(1,197)=11.36$, $p=.001$) contributed significantly to the model. In the final model, participants who were female, had no prior experience with online therapies, and reported greater technology liking, greater knowledge of online therapies and less stigmatized mental health attitudes reported significantly greater perceived helpfulness.

3.3.4 Intentions to use. In the final regression equation, adolescent factors failed to significantly predict intentions to use online therapies and accounted for only 11% of variance in the outcome, $R^2=.11$, $F=1.60(15,192)$, $p=.076$. Individually, knowledge of online therapies ($\Delta R^2=.03$, $\Delta F(1,197)=6.27$, $p=.013$) contributed significantly to the prediction of intentions to use. In the final model, greater knowledge of online therapies significantly predicted greater uptake intentions.
4. Discussion

The primary aims of this study were to describe adolescents’ perceptions of online therapies and investigate factors influencing their attitudes and uptake intentions. Despite the majority of participants reporting experience with mental health challenges, only around a third had accessed a mental health service and even fewer individuals (3.7%) reported having used an online therapy. These rates confirm previous observations (Lawrence et al., 2015) that uptake of online therapies is low in the community.

In spite of demonstrating poor knowledge about the effectiveness and accessibility of online therapies, adolescents’ perceptions of these programs were found to be generally positive. While adolescents’ reported concerns around the likelihood of not finishing the program, inability to ask questions, privacy and level of therapist support; these were less strongly endorsed than perceived benefits, such as the alleviation of embarrassment, ability to track progress, and increased accessibility. These findings are consistent with benefits perceived by university students (Horgan & Sweeney, 2010) and ratify that the capacity of online therapies to increase treatment accessibility and reduce service-related stigma is important to adolescents. These key factors identified as important to adolescents may be highlighted in strategies (such as educational programs) to improve program uptake.

Adolescents also strongly supported the availability of online therapies for free online, in schools and mental health clinics, and at the doctor; yet were divided on their preference for availability with or without therapist support. Promotional strategies aimed at improving uptake of these services should therefore educate adolescents on the options for self-help or adjunct therapist support programs, and empower them to access support services most suitable to their needs.

Finally, although the majority of adolescents believed online therapies were helpful and reported they would use them if necessary, only one third would choose online therapy
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over face-to-face support. Comparatively, adolescent preference for online therapy was found to be stronger than that reported previously by university students (Horgan & Sweeney, 2010; Mitchell & Gordon, 2007). One explanation for this is that adolescents may be more receptive to online services than young adults, though it remains clear that this receptivity does not always lead to actual program use.

This study also investigated the factors influencing adolescent attitudes and intentions to use online therapies. Demographic and clinical factors associated with higher uptake intentions included female gender, and the absence of prior experience with online therapies. The absence of experience increasing intentions is inconsistent with findings from the psychological help-seeking literature (Gulliver et al., 2010), and may have arisen due to the neutrality (rather than negativity) of adolescents with prior experience, compared to the optimism of the inexperienced. Adolescents who had a liked using technology more also perceived online therapies as more helpful and with greater benefits. This relationship suggests that when disseminating online therapies, implementation materials also need to be online to provide the greatest exposure to technology-friendly adolescents.

Consistent with prior research in the youth mental health help-seeking literature (Rickwood, Deane, & Wilson, 2007), perceived helpfulness and uptake intentions were found to be higher among adolescents with greater knowledge of online therapies. It is suggested that adolescents who have a greater knowledge of online therapies are more likely to be well-informed on the programs’ positive aspects and thus see them as more helpful, leading to greater uptake intentions. Also consistent with psychological help-seeking literature (Clement et al., 2015; Cometto, 2014; Jorm, 2012), adolescents with less stigmatized mental health attitudes were found to have more positive attitudes towards online therapies. This finding highlights that the issue of mental health stigmatization continues to influence young peoples’ choices around accessing support, even online.
Finally, adolescent personality traits failed to significantly predict any outcomes. These findings are in contrast with prior literature that has found significant relationships between personality and attitudes towards online therapies among adults (Klein & Cook, 2010; Tsan & Day, 2007). One explanation is that this contrast can be attributed to a difference in assessment measures. Alternatively, we also know that personality traits are less stable during the adolescent period than during adulthood (Soto, John, Gosling, & Potter, 2011; Hampson & Goldberg, 2006), thus perhaps this instability could explain the less robust influence of personality on help-seeking attitudes among youth. It would seem that for adolescents, personality traits may not determine their perceptions of online therapies.

Following this, we present three potential strategies to improve the uptake of these programs among adolescents. The first is to target the dissemination of online therapies towards adolescents who like technology, by focusing dissemination strategies on digital forums, such as social media and other popular websites among adolescents. The second strategy is to improve knowledge about online therapies among all adolescents in the community, through awareness and educational campaigns. The third strategy is to reduce mental health stigma among adolescents, by promoting healthy attitudes towards mental health and associated services.

The present study had several strengths. It was the first of its kind to describe in detail, adolescent attitudes towards online mental health interventions and quantitatively examine the factors that influenced these attitudes. By surveying adolescents themselves, this study importantly recognised the changing landscape of mental health services, such that adolescents can now access evidence-based treatments for a number of mild to moderate mental health concerns from their own homes.

Despite its strengths, this study was not without limitations. First, the sample of participants were relatively well-educated, English-speaking, and had technology access;
thereby reducing the generalizability of the findings to adolescents without such privileges. Second, given the use of a cross-sectional research design, this study cannot inform temporal changes in adolescents’ attitudes and uptake intentions, nor their actual program uptake. Future research using a longitudinal design to monitor change in attitudes over time and follow-up assessment of uptake behaviour is strongly encouraged. Third, several measures used in this study were not psychometrically validated, thus the development of validated measures specific to adolescent attitudes towards online therapies is encouraged. Fourth, it is recommended that future research is conducted with a larger sample of prior service users, than found the present sample, before drawing conclusions around the impact of service experience on attitudes towards online therapies. Fifth, multiple analyses conducted with a large number of predictors in this study may have inflated the Type I error rate, therefore future research is recommended to recruit a larger sample.

Finally, though beyond the scope of this study, future research is also warranted to 1) examine the mediating relationships between knowledge, attitudes, intentions, and uptake, 2) explore the impact of age cohort on psychological service attitudes among young people, and 3) examine adolescent preferences for specific program features in online therapies.

5. Conclusions

The current study represents an important step towards increasing the use of online psychological interventions for adolescents. It is evident we need to invest more resources in implementation strategies for online programs, alongside investment into their development and research. We recommend such strategies focus on increasing knowledge of online therapies among adolescents, and target adolescents who are already engaged in digital platforms. If adolescents are willing to give online interventions a go, then we need to begin developing these strategies to improve their knowledge and awareness of these services in order to enhance uptake in the community.
References


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Figure 1. Likelihood of services use for future mental health difficulties by type of service
Figure 2. Recommended availability of online therapies

[Bar chart showing recommended availability of online therapies in various settings such as available for free online, available in schools, available at the doctor, available in mental health clinics, available without professional help, and only available with professional help.]
Table 1. Participant demographics (N=217)

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Table 2. Descriptive statistics and bivariate correlations for all predictor and criterion variables

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<th>Problem</th>
<th>Benefits</th>
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<td>Age</td>
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<td>.06</td>
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<td>.13</td>
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*Note. * p < .05, ** p < .01, *** p < .001
Table 3. Statistics for the final regression equation (step five) examining adolescent predictors of attitudinal outcomes

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Logging into therapy: Adolescent perceptions of online therapies for mental health problems

Highlights

Online therapies are well suited to increase the accessibility of mental health treatment for adolescents, yet uptake remains low.

Adolescents reported their attitudes towards and intentions to use online therapies.

72% of adolescents would access an online therapy if they required support.

Adolescents valued the benefits of stigma reduction and accessibility.

Online therapy knowledge predicted perceived helpfulness and uptake intentions.
Logging into therapy: Adolescent perceptions of online therapies for mental health problems

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Caroline L. Donovan (PhD)
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