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**Media Smart-Targeted: Diagnostic outcomes from a two-country pragmatic
online eating disorder risk reduction trial for young adults**

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Abstract

Background: Diagnostic outcomes in eating disorder (ED) risk reduction trials are important but rarely reported. **Methods:** An online pragmatic randomized-controlled trial was conducted with young-adult women in Australia and New Zealand seeking to improve their body image. *Media Smart-Targeted (MS-T)* was a 9-module program released weekly while control participants received tips for positive body image. Eating Disorder Examination–Questionnaire (EDE-Q) scores from baseline and 12-month follow-up were used to investigate two outcomes: ED onset in those who were asymptomatic at baseline (prevention effects); and, ED remission in those who met diagnosis at baseline (treatment effects). **Results:** *MS-T* participants were 66% less likely than controls to develop an ED by 12-month follow-up (non-significant). *MS-T* participants who met ED criteria at baseline were 75% less likely than controls to still meet diagnostic criteria at follow-up. This effect was significant and remained so for both those who did and who did not access external face-to-face ED treatment during the trial. **Conclusions:** Whilst further investigations are necessary, *MS-T* has fully automated procedures, low implementation costs, the potential to be delivered at-scale to assist those assist those where face-to-face services are limited or not available (e.g., remote areas).

Keywords: eating disorders; prevention; targeted; risk factors; online

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Introduction

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Eating disorders (ED: anorexia nervosa [AN], bulimia nervosa [BN] and binge eating disorder [BED], Other Specific Feeding and Eating Disorders [OSFED]) are serious problems, characterized by high mortality (Harris & Barraclough, 1998), a destructive physical and psychological course (Johnson, Cohen, Kasen & Brook, 2002), recent increases in prevalence rates (Hay, Mond, Buttner & Darby, 2008), low rates of presentation for treatment (Johnson et al., 2002), comparatively poor treatment outcomes (Steinhausen, 2002), high rates of relapse (Keel, Dorer, Franko, Jackson & Herzog, 2005), and high rates of health service use (Mond, Hay, Rodgers & Owen, 2007). In Australia alone, 913,000 people were suffering from an ED in 2012 where the estimated socioeconomic costs were \$AUD69.7 billion (\$US52.9 billion: Butterfly Foundation, 2012). Thus while the pursuit of effective ED prevention and treatment is of critical importance, it is equally important that this be available in a manner that can be delivered at-scale to meet this overwhelming need that cannot possibly be met by traditional services. To date, two face-to-face programs (*The Body Project* and *Healthy Weight*) have been found to reduce the onset of EDs while an online program (*Student Bodies*) has been found to reduce onset for sub-populations such as participants with elevated BMI at baseline (Stice, Marti, Spoor, Presnell & Shaw, 2008; Taylor et al., 2006).

The purpose of this report is to examine whether *Media Smart-Targeted (MS-T)* can decrease EDs in young-adult women relative to a control condition. *MS-T* is an online adaptation of *Media Smart*, a school program that has been found to significantly reduce a range of ED (and obesity) risk factors in young-adolescent girls and boys (Wilksch et al., 2015; Wilksch & Wade, 2009), significantly reduce growth in girls' shape and weight concerns over a 2.5-year follow-up (Wilksch & Wade, 2009), and halve the rate of onset of clinically-significant shape and weight concerns at 12-month follow-up (Wilksch et al., 2015). This online intervention was not moderated, so it was different from previous targeted prevention trials shown to decrease EDs; most of the previous trials were conducted at university sites with monitoring from a therapist moderator (e.g., Taylor et al., 2006), or conducted face-to-face (Stice et al., 2008). Whilst the school version of *Media Smart* is a universal program (e.g., all girls and boys in school classes included regardless of baseline levels of ED risk), *MS-T* was developed as a targeted (i.e., 'indicated') program (e.g., participants included due to elevated baseline ED risk or already reporting disordered eating behaviours). Other targeted trials have understandably excluded those meeting ED diagnosis at baseline (Stice et al., 2008; Taylor et al., 2006), while some

91 have also excluded those meeting subclinical ED diagnosis or having previously accessed ED
92 treatment (Taylor et al., 2006).

93 A recent two-country randomized controlled trial (RCT; $N=575$) of *MS-T* focused on
94 outcomes related to measures of continuous disordered eating (global EDE-Q score), ED risk factors,
95 and presence/absence of disordered eating over a 12-month follow-up (Wilksch et al., 2017). This trial
96 was pragmatic in nature, meaning we sought to evaluate how the program would be used and its
97 effectiveness under real-world conditions; at-scale across two countries with minimal exclusion criteria
98 (Ford & Norrie, 2016). Individuals self-referred based on wishing to improve body image, where the
99 only exclusion criteria were: elevated suicide risk; alcohol or substance abuse; or, self-reported BMI <
100 15.0. At baseline, 76% of the sample met criteria for disordered eating, defined as having a global
101 EDE-Q score ≥ 1 SD of the community mean (i.e., $M=2.46$: Mond, Hay, Rodgers, Owen & Beumont,
102 2004), in addition to a minimum of one of the following in the previous 4-weeks: fasting; vomiting; or
103 laxatives to control weight; objective binge eating episode; or BMI <18.5. Despite this high proportion
104 of eating pathology, just 14.7% of the sample endorsed having received treatment in the last 12 months
105 for ED symptoms. As such, one of the strengths of this trial was the inclusion of many young women
106 who were experiencing eating pathology who were not currently receiving care for these symptoms.

107 Analyses were conducted in two ways (Wilksch et al., 2017): Intention-to-treat (ITT); and,
108 ‘measure completers’, referring to the 78% of the sample who completed who completed baseline and
109 a minimum of one other assessment point. ITT analyses revealed *MS-T* participants had significantly
110 higher quality of life–mental relative to controls, while amongst measure completers *MS-T* scored
111 significantly lower than controls on: EDE-Q global; media internalization; depressive symptoms;
112 ineffectiveness; and, clinical impairment. Of those with baseline DE, *MS-T* participants were
113 significantly less likely than controls to still have disordered eating at 12-month follow-up. Whilst
114 program completion rates were low (13.6%), 41.2% (26/63) of those who completed the first module
115 completed all modules.

116 The aims of this research were to investigate the efficacy of *MS-T* with regard to clinical (or
117 diagnostic) outcomes – namely prevention effects (outcomes for those who did not meet ED diagnosis
118 at baseline) and treatment effects (outcomes for those who met ED diagnosis at baseline). This
119 responds to the calls for ED prevention scientists to give greater attention to the assessment and
120 reporting of clinical outcomes in risk reduction trials (Becker, 2015).

121 **Methods**122 **Participants**

123 Full information regarding recruitment, randomization and procedures appears in a separate
124 report (Wilksch et al., 2017). In brief, eligible participants were young-adult women (18-25 years)
125 seeking to improve their body image from across Australia and New Zealand. Self-referral was used
126 with sources including: flyers at universities ($n=100$; 31.9%); social media ($n=87$; 27.8%); and, media
127 reports ($n=60$; 19.2%).

128 **Program & Procedure**

129 A full description of the 9-module *MS-T* program has been reported (Wilksch et al., 2017).
130 Program content addresses prospectively identified ED risk factors (e.g., media internalization).
131 Modules were released weekly and participants were encouraged to view interactive content, provide
132 responses to questions, and complete homework assignments. Whilst *MS-T* was developed based on
133 *Media Smart* (8-lesson school version), content was changed considerably to be appropriate for a
134 young-adult, online, female-only audience. New content included a greater focus on social media
135 pressures; emotion regulation; goal setting and a module to address eating-related risk factors was
136 included (e.g., the importance of eating breakfast and regular eating). Consistent with other targeted
137 trials, control participants received a one-off email providing tips for positive body image (e.g., Stice *et*
138 *al.*, 2011).

139 **Procedure**

140 The study website provided participants with information, consent procedures, and baseline
141 questionnaires. Following questionnaire completion, the website automatically randomized
142 participants to condition with *MS-T* participants were able to access their website immediately.
143 Automated email reminders were sent to all participants to complete post-program measures 10-weeks
144 after baseline and at 6- and 12-month follow-up. A \$AUD50 gift voucher was sent to participants who
145 completed a minimum of three waves of assessment. Ethics approval for this research was received
146 from the Flinders University Social and Behavioural Research Ethics Committee.

147 **Measures**

148 ED diagnosis was assessed using the Eating Disorder Examination Questionnaire (EDE-Q:
149 see **Table 1**). A systematic review concluded there was “data to support the ability of scores on the

150 EDE-Q to differentiate between cases and non-cases of eating disorders” (p. 436: Berg, Peterson,
 151 Frazier & Crow, 2012). The EDE-Q has been validated against the EDE interview, demonstrating
 152 moderate diagnostic concordance (Berg et al., 2012). Whilst the interview is superior with respect to
 153 diagnosis, the EDE-Q has been used to generate diagnosis in a young-adult Australian outpatient
 154 sample (Mancuso et al., 2015) and use of the EDE-Q was well-suited to the pragmatic approach to this
 155 research.

156 **Statistical Analyses**

157 The baseline frequencies of ED cases between conditions were investigated using Chi Square
 158 analyses. Both prevention and treatment outcomes were investigated for those who completed
 159 measures at 12-month follow-up ($N=205$; 64.8% of baseline sample). Odds ratios (OR) and 95% CI
 160 from logistic regressions were used to compare diagnostic status at 12-month follow-up for *MS-T*
 161 participants relative to controls. These analyses were also conducted adjusting for receiving face-to-
 162 face treatment (e.g., psychologist, psychiatrist) at any point in the trial.

163 **Results**

164 **Participants**

165 Data that are relevant for the current report come from $N=316$ women (M age=20.80 years,
 166 $SD=2.26$). This group was comprised of all control participants ($n=194$) and $n=122$ *MS-T* participants
 167 (63.8%) who accessed the program at least once out of the 194 participants who were allocated to *MS-*
 168 *T*. Of this sample, a total of $n=220$ participants (69.6%) met criteria for ED at baseline. The
 169 proportion of these cases was not significantly different between the *MS-T* ($n=90$; 73.8%) and control
 170 conditions ($n=130$; 68.1%: $\chi^2=1.16, p = .281$.)

171 **Prevention effects**

172 Of the participants with 12-month follow-up data, $n=15$ met ED criteria who did not meet ED
 173 at baseline ($n=66$). **Table 2** shows that *MS-T* participants were 66% less likely than controls to develop
 174 an ED by 12-month follow-up. Amongst those who did not seek external treatment during the trial,
 175 *MS-T* participants were 52% less likely than controls to meet ED diagnosis at 12-month follow-up.
 176 These results were not significant.

177 **Treatment effects**

178 Of the participants with 12-month follow-up data, $n=37$ participants no longer met ED criteria
 179 who did meet criteria at baseline ($n=117$). **Table 2** shows *MS-T* participants were 75% less likely than

180 controls to meet ED criteria at 12-month follow-up. This finding was also significant amongst both
181 non-treatment seekers and treatment seekers, where *MS-T* participants were 71% and 86% less likely
182 than their controls to meet diagnosis at 12-month follow-up.

183 To investigate this further, logistic regressions were run separately by ED diagnoses. A significant
184 treatment effect was found for OSFED cases (OR=0.37, 95% CI [0.14-0.98]), where *MS-T* participants
185 (17/27:63.0%) were 63% less likely than controls (19/49: 38.8%) to meet diagnosis at follow-up. This finding
186 was also significant for those participants who did not access external face-to-face treatment during the trial
187 cases (OR=0.32, 95% CI [0.11-0.95]). Due to low numbers, AN, BN and BED were combined to form one
188 omnibus outcome. Of these cases, a higher proportion of *MS-T* participants (10/15: 66.6%) no longer met
189 diagnosis at 12-month follow-up than controls (19/44: 43.2%), however this was not significant (OR=0.38,
190 95% CI [0.11-1.30]).

191 **Discussion**

192 This trial investigated the impact of *MS-T* on ED diagnosis onset and remission in an online
193 pragmatic RCT involving a community sample of self-referred young-adult women wishing to improve
194 their body image. Minimal exclusion criteria were used. Two key findings emerged. First, a treatment
195 effect was found where *MS-T* significantly reduced the likelihood of continuing to meet diagnosis at
196 12-month follow-up. This was observed both for those who did, and did not, seek external face-to-face
197 ED treatment. This finding extends the original RCT report, which also found a treatment effect for
198 participants meeting more broad disordered eating criteria (Wilksch et al., 2017). Post-hoc analyses
199 revealed a significant effect specifically for OSFED cases, which might be related to the higher
200 frequency of these cases compared to AN, BN and BED. Further, whilst OSFED causes significant
201 suffering in its own right, it is possible that *MS-T* prevented a proportion of these cases from
202 ‘progressing’ to one of the other diagnoses. To achieve this without participants requiring face-to-face
203 treatment is a promising finding that warrants further investigation.

204 To the best of our knowledge, this was the first time a targeted program has resulted in a
205 significant treatment effect using diagnostic outcomes. Some previous studies have achieved
206 reductions in disordered eating behaviours in participants with subthreshold eating disorder symptoms,
207 but excluded those meeting full syndrome diagnoses (Jacobi, Völker, Trockel & Taylor, 2012; Saekow
208 et al., 2015). Whilst it is not suggested that *MS-T* is comparable to established ED treatment protocols,
209 the program is well-suited to clinical samples given *MS-T* is online and does not include open

210 discussion groups. Thus participants of varying ED risk levels can participate in *MS-T* without risk of
211 causing inadvertent harm to other participants given that participant responses are not shared.

212 Second, whilst not significant, *MS-T* participants were two thirds less likely than controls to
213 become a new ED case by 12-month follow-up. This finding is encouraging and similar to that found
214 for face-to-face delivery of *Healthy Weight* (61%) and *The Body Project* (60%), though these findings
215 were based on interview over a 2-3 year follow-up (Stice et al., 2008). This lack of significance is
216 likely due to the comparatively small proportion of participants who did not meet ED criteria at
217 baseline. Given *MS-T* was originally developed as a targeted risk reduction program, it would be
218 valuable for future research to focus on recruiting a non-clinical sample to more fully assess *MS-T*'s
219 impact as a prevention program.

220 The limitations of this research have been previously outlined (Wilksch et al., 2017). Of
221 relevance to this report includes: the use of self-report rather than interview to assess ED symptoms;
222 the 28-day time frame of EDE-Q assessment rather than the 3-month timeframe used with the EDE;
223 and, measure completion rates being lower than other targeted prevention trials where this was
224 exacerbated by use of online self-report assessment. Power analyses were conducted for continuous
225 outcomes reported in the primary RCT (Wilksch et al., 2017), thus findings for dichotomous outcomes
226 presented need to be interpreted with caution and require replication.

227 Whilst replication trials are required, *MS-T* holds promise as a program that to date has been
228 found to: reduce ED onset by two thirds; be effective at significantly reducing eating pathology for
229 those with baseline ED symptoms; and, which seems to augment rather than confound external
230 treatment. Given the low implementation costs of *MS-T* where it is of a 'pure' self-help nature with
231 fully automated registration and access procedures, the program has potential to be delivered at-scale to
232 assist those where face-to-face services are limited (e.g., long waiting lists), not available (e.g., remote
233 areas), or where individuals are reluctant to attend face-to-face services. At the population level, this is
234 likely to be a vast number of people where currently only a fraction are receiving the help that they
235 need. Finally, it is of interest that while *Media Smart* and *MS-T* sit at opposite ends of the prevention
236 spectrum (i.e., universal – targeted), both have achieved reductions in ED risk or symptoms through
237 encouraging participants to question the validity of media (and other) messages that suggest our self-
238 worth should be primarily determined by perceptions of our appearance, shape and weight.

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242 supported through a South Australian Government Youth Connect grant. The authors thank the
243 participants for their involvement in this research.

244 *Declaration of Interest:* Dr Wilksch and Professor Wade are authors of *Media Smart-Targeted* and
245 *Media Smart*, where sales of *Media Smart* fund further ED prevention research.

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- 359

360 Table 1.

361 *Diagnosis, description of criteria for diagnosis, baseline frequencies of various diagnoses for MS-T and controls*

Diagnosis	<i>MS-T</i> <i>N=122</i> <i>n (%)</i>	Controls <i>N=194</i> <i>n (%)</i>	Description
AN	7 (5.7)	9 (4.7)	BMI < 18.5; AND fear of gaining weight OR persistent behaviour that interferes with weight gain (fasting / vomiting / laxatives >4); AND at least moderate importance of shape and/or weight OR felt fat for more than half of the days (>= 4)
BN	11 (9.0)	19 (9.8)	Objective bulimic episodes (OBE) at least once per week over past 28-days; AND compensatory behaviours fasting / vomiting / laxatives) at least once per week over past 28-days; AND at least moderate importance of shape and / or weight (>= 4); AND did not occur during an episode of AN
BED	18 (14.8)	37 (19.2)	OBE at least once per week over past 28-days; AND did not occur during an episode of other diagnosis
OSFED	54 (44.3)	65 (33.7)	Mean item EDE-Q global score >= 2.46 (i.e., global EDE-Q score ≥ 1 SD of the community mean (Mond et al., 2004) AND presence of one or more of the following: OBE; fasting; vomiting; laxative use; BMI< 18.5 AND did not meet diagnosis for AN, BN, or BED
ED	90 (73.8)	130 (68.1)	Combined total of above 4 diagnoses

362 Note: AN= anorexia nervosa; BN= bulimia nervosa; BED= binge eating disorder; OSFED= other specific feeding and eating disorder; ED= eating disorder

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369 Table 2.
 370 Prevention and treatment effects for clinical eating disorder cases at 12-month follow-up (significant results are bolded)

Analysis	<i>MS-T</i> N (%)	Control N (%)	OR (95% CI) MS vs control
Prevention effects			
1. Not adjusting for treatment	2/18 (11.1)	13/48 (27.1)	0.34 (0.07-1.67)
2. Adjusting for treatment			0.48 (0.09-2.56)
- No treatment	2/18 (11.1)	8/39 (20.5)	0.48 (0.09-2.56)
- Yes treatment	0 (0)	5/9 (55.6)	-
Treatment effects			
1. Not adjusting for treatment	20/42 (47.6)	17/75 (18.5)	0.25 (0.11-0.56)
2. Adjusting for treatment			0.25 (0.11-0.56)
- No treatment	15/33 (45.5)	14/72 (19.4)	0.29 (0.12-0.79)
- Yes treatment	5/9 (55.6)	3/20 (15.0)	0.14 (0.02-0.85)

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372 Note: ^a proportion per condition of new clinical eating disorder cases at 12-month follow-up: only participants who did not have ED at baseline; ^b proportion per condition of no
 373 longer being a clinical eating disorder case: only participants who did have ED at baseline. Bolded values indicate significant odds ratios ($p < .05$).

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