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2 **A Randomised Controlled Trial of the “Take a Breath” Parent Program: Evaluation of A**
3 **Program to Reduce Distress in Parents of Children with Serious Childhood Illnesses/injuries**

4

5 **2. INTRODUCTION AND BACKGROUND**

6 **2.1 Background Information**

7 It has been well established that serious child illness or injury’s (SCII) which are life
8 threatening and have long term consequences for child wellbeing, have significant impacts
9 on child health and development, including social, educational, physical and emotional
10 domains. Importantly, these increased problems occur not just for the sick child (Caplan et
11 al., 2005; Hudson et al., 2003; Zebrack et al., 2002) but also for parents, and for mothers in
12 particular (Pai et al., 2007; Pai et al., 2008). Parents of a child with an SCII must, for example,
13 contend with the possibility of their child’s death along with the serious impact on their
14 child’s future (Hall et al., 2006). These experiences can overwhelm even the most resilient
15 parents (Hall et al., 2006).

16
17 Research findings from studies exploring the impact of SCII have indicated that most
18 families of a child with SCII are able to cope and adjust well over time despite initial and/or
19 recurrent periods of extreme distress (A. Kazak et al., 2007; Landolt, Vollrath, Ribbi, Gnehm, &
20 Sennhauser, 2003; Tyack & Ziviani, 2003). However, it has also been documented that for
21 some families, family functioning will be adversely affected by elevated or escalating
22 psychological distress in parents (Cheshire, Barlow, & Powell, 2010; Mu, 2005; Shaw et al.,
23 2006; Williams et al., 2003). Similar to other traumatic experiences, the experience of having
24 a child diagnosed with a SCII can lead to parental depression, acute stress disorders and/or
25 post traumatic stress responses (Best, Streisand, Catania, & Kazak, 2001; Cheshire et al., 2010;
26 Cleveland, 2008; A. Kazak & Barakat, 1997). This link between parental mental health and
27 SCII has been seen across a range of diagnoses including: cancer, acquired brain injury and
28 admission to Intensive Care Units (Sawyer, Streiner, Antoniou, Toogood, & Rice, 1998).

29
30 Research suggests that the early months of treatment provide an important window to
31 intervene to reduce short and longer-term post traumatic symptoms in parents (A. Kazak et
32 al., 2007). Some attention has been given to the investigation of approaches for supporting
33 parents of children with SCII and in particular childhood cancer. Many of these approaches
34 have targeted parents with existing symptoms of trauma and distress. Results of studies
35 have been mixed. While some studies have demonstrated significant impacts on parental
36 coping and wellbeing (A Kazak et al., 1999; O. Sahler et al., 2002), other studies have
37 reported interventions to be less effective than required to support wide dissemination. Two
38 studies aimed at reducing parental symptoms of traumatic stress in parents of children with
39 cancer have demonstrated some success. The first, the Surviving Cancer Competently
40 Intervention Program (SCCIP: (A Kazak et al., 1999) is a one day group cognitive behavioural
41 and family systems intervention whilst the second is a problem solving skills training
42 program, (PSST: (O. Sahler et al., 2002) delivered on an individual basis to parents over eight

43 sessions. Findings from families participating in either the SCCIP or PSST interventions
44 revealed both programs were effective in reducing maternal emotional distress and anxiety
45 associated with the diagnoses of life-threatening illnesses. However, both these
46 interventions report some problems, with the SCCIP reporting difficulties with engagement
47 of parents and the outcomes from the PSST program diminishing at three month follow-up
48 assessment. Another study, evaluated the effectiveness of a parent component of the four
49 session Children's Epilepsy Program (Lewis, Hatton, Salas, Leake, & Chiofalo, 1991). The
50 parent component was designed to help parents acknowledge their fears, grief, and anger
51 surrounding their child's seizure disorder, as well as to have a better understanding of the
52 disorder (Lewis et al., 1991). The results from the pilot study revealed gains in parental
53 knowledge and reductions in anxiety, but did not result in changes to parental vigilance and
54 the restrictions they placed upon their child's self-care activities or how they controlled their
55 seizures, a major aim of the intervention (Lewis et al., 1991). The sparse amount of
56 intervention research to date and the mixed results of the few published studies highlight
57 the need for further investigation and development of effective interventions that prevent
58 traumatic stress symptoms in parents from reaching clinical levels.

59 More recently psychosocial interventions are moving into online platforms to enhance
60 the feasibility of research studies, and to provide rural and regional families access to
61 potentially useful programs. Large tertiary paediatric hospitals like Melbourne's RCH receive
62 admissions from across the state as well as from interstate and overseas. Our longitudinal
63 study of 194 parents of children with SCIs found 46% lived in regional, rural or interstate
64 areas. To ensure equity of access the use of an online videoconferencing is a viable option.
65 The efficacy of telepsychiatry and other technology-assisted psychological interventions
66 services has been studied for over 15 years. While the number of quality RCTs remains small,
67 the evidence consistently supports these approaches as having effect sizes equal to and
68 sometimes stronger than traditional face-to-face intervention. Meta-analyses of technology-
69 assisted interventions for the treatment of adult anxiety, depression, or trauma span
70 interventions delivered individually or in groups, using on-line text-based intervention, tele-
71 and videoconferencing for groups or individuals, and self-help programs with or without
72 therapist assistance (Barak, Hen, Boniel-Nissim, & Shapira, 2008). There is also growing
73 evidence that elements of the therapeutic alliance (which arguably account for a substantial
74 proportion of outcomes irrespective of the intervention components),(Frueh et al., 2007)
75 remain similar regardless of mode of delivery (Cook & Doyle, 2002; Frueh et al., 2007). For
76 example, Frueh et al (2007) evaluated a manualised intervention for PTSD (N=38) and found
77 no differences by modality (group teleconferencing) in terms of therapist competence,
78 adherence, providing feedback, developing rapport, managing difficulties and conveying
79 empathy.

80

81 **2.3 Rationale for Current Study**

82 The newly developed Take a Breath (TAB) parent program, which targets parents at risk
83 for developing serious psychosocial difficulties, offers an important opportunity to provide
84 tailored support to families with the potential to prevent ongoing difficulties and to assist
85 families to adapt well to the new and often overwhelming experience of having a seriously ill
86 child. The program incorporates key strategies that have demonstrated promise in previous
87 intervention trials for parents of children with an SCI whilst adding additional therapeutic
88 elements that have demonstrated good effect in other areas of psychological trauma and
89 distress. It is anticipated that the combination of these therapeutic elements will lead to

90 prevention of ongoing and severe levels of traumatic stress in vulnerable parents of children
91 with a range of serious childhood illnesses.

92 **3. STUDY OBJECTIVES**

93 **3.1 Primary Objective**

94 Does the "Take A Breath program lead to greater improvements in psychosocial distress
95 than treatment as usual for parents of children with SCIs who report risk factors associated
96 with the development of post traumatic stress symptoms in the first weeks following their
97 child's diagnosis.

98 **4. STUDY DESIGN**

99 **4.1 Type of Study**

100 The design is a pre-post- control group design with random allocation to one of two
101 treatment arms:

- 102 - TAB (Take a Breath) parent intervention
- 103 - Wait List control (W-L).

104

105 This design will allow a comparison of the TAB and wait-list groups at pre and post
106 intervention, in order to evaluate if any improvements over time are due to the TAB
107 intervention and not due to natural recovery or other factors. Following completion of the
108 post questionnaire, the W-L group will be offered the TAB intervention if they are interested,
109 to acknowledge their time commitment and participation in the project. If they do complete
110 the group, they will also be asked to complete a post-intervention questionnaire.

111

112 Up to 30 parent groups will be delivered per arm across a two and a half year period
113 commencing in November 2014. Parents assigned to the TAB arm will be offered a place in
114 the next available parent group. Parents assigned to the W-L arm will be offered
115 participation in the TAB program immediately after completion of the post intervention
116 questionnaire.

117 **4.3 Number of Subjects**

118 Screening of Parents: Identifying Target Participants

119 Up to 788 parents will participate in the Screening process in order to reach the targeted
120 group. It is anticipated that this number of parents will be required to reach the 263 eligible
121 and consenting parents that are required for adequate power for the parent intervention
122 analysis. This figure was arrived at by allowing for a seventy percent uptake at screening, a
123 5% drop due to child death/grave illness and 50% excluded as reporting no distress.

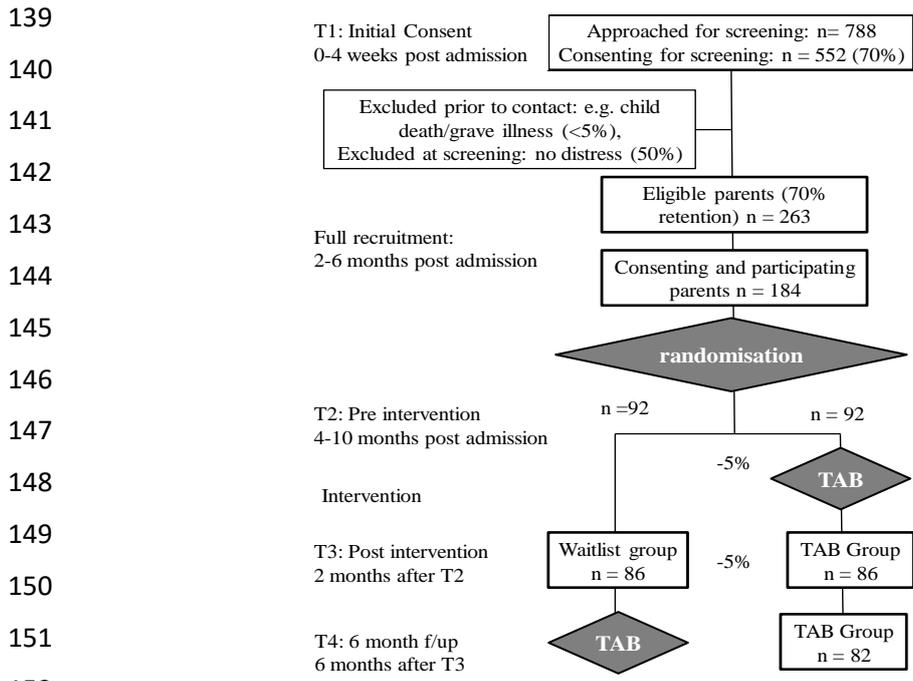
124 It is considered that this figure of 788 is feasible based on the number of past admissions
125 from each of the three participating departments in a 12 month period. For example, during
126 2008-2009 there were approximately 200 new cancer, 1600 Cardiac, and there were
127 approximately 1000 admissions to the PICU. Given these figures and the research experience
128 of the research team, it was estimated that approximately 70% of families admitted into the
129 hospital in each of the illness/injury groups would be likely to participate resulting in

130 sufficient numbers of families willing to complete the screening questionnaire. See figure 3
 131 below outlining recruitment, assessment and participant flow.

132 Parent Intervention Participants

133 One hundred and eighty four families will be allocated to each of the two treatment
 134 arms. A potential total of 263 eligible parents are required, as we anticipate that 50% of
 135 eligible families will either be uncontactable, refuse to participate, or their child's illness will
 136 exclude them from participating at this later stage. See Figure 3 for participant flow details.

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 138



153 *Figure 1: Recruitment, assessment & participant flow*

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156 Figure 3: Recruitment, assessment and participant flow

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159 **5. STUDY TREATMENTS**

160 **5.1 Treatment Arms**

161 **5.1.1 Description**

162 Program Structure

163 The parent intervention is a brief psychosocial parent mediated group program. It will
 164 consist of five sessions of 90 minutes duration each plus one additional sixth session (also 90
 165 minutes) one month following the fifth session (totalling nine hours of contact time). The
 166 intervention will be delivered via an online videoconferencing platform called Google
 167 Hangouts <https://hangouts.google.com/> supported by the Royal Children's Hospital. This

168 program allows participants and practitioner/s to see and hear each other, including the
169 option of presenting teaching materials on the screen. Participants are also able to send
170 group emails and private emails to the practitioner if they chose to do so. Each participant
171 will be sent an I-pad (set up for immediate use) for the duration of the program,
172 programmed with Google hangouts, and specific instructions on how to login to the session.
173 The I-pad will have internet access, with ample download capacity with Telstra to prevent
174 disruption throughout this period. Internet access will be restricted to the Google hangouts
175 application, limiting extraneous use of the internet. This process will ensure all participants
176 have access to the technology and will minimise technical issues.

177 Voice recordings will be taken in each group, and used to assess program fidelity. To
178 maintain privacy, participants will be requested to enter their first name only, which will be
179 visible underneath their webcam image. An overview of the program's structure and content
180 is provided in Appendix 11: TAB Program Outline.

181

182 Program Approach

183 The parent program will be based on several key theoretical approaches that have been
184 shown to be effective in supporting parents and/or in addressing a range of psychosocial
185 difficulties.

186 First, the program will adopt strategies from a Cognitive Behavioural Psychology (CBT)
187 approach. In particular, Social Learning Theory (also known as Behavioural Family
188 Intervention or Parent Management Training), is an approach that has been applied
189 extensively and effectively in the parenting field. This theory will inform both the learning
190 processes and the program content. Social Learning Theory approaches utilise behaviour
191 management training, modelling, and generalisation and maintenance strategies, such as in
192 session and between session practice, to assist parents to achieve changes in their children's
193 and their own behaviour. Positive outcomes include reductions in child internalising and
194 externalising behaviour problems, increases in parental confidence and effectiveness,
195 improvements in the psychosocial health of parents (including anxiety, depression and self
196 esteem) and development of skills for improving parenting practices and improving the
197 parent-child relationship quality (Johnson, Franklin, Hall, & Prieto, 2000; Sanders, Markie-
198 Dadds, & Turner, 2003; Webster-Stratton & Hammond, 1997). In relation to SCILs,
199 interventions that have incorporated CBT strategies such as problem solving have been
200 demonstrated to be the most effective to date (A. Kazak et al., 1998; O. J. Z. Sahler et al.,
201 2002). Additionally in the area of SCILs, such as acquired brain injury, parenting programs
202 targeting difficult child behaviours are showing some promise (Feeney & Ylviaksaker, 1995;
203 Slifer et al., 1996).

204 In addition, the intervention will also incorporate strategies from a contextual-
205 behavioural psychology approach. This approach also has its origins in the field of Cognitive
206 Behavioural Psychology, is relatively new and has increasing levels of evidence for its
207 effectiveness in addressing a range of psychological difficulties, including, depression and
208 anxiety in adults and children, chronic health difficulties such as diabetes and pain and
209 substance addictions. Contextual behavioural approaches aim to increase psychological
210 flexibility of participants via increases in the use of acceptance and mindfulness strategies,
211 thereby assisting them to deal with their cognitions and emotions in more helpful ways
212 resulting in reductions in physical and mental health difficulties and other psycho-social
213 conditions (Hayes, Luoma, Bond, Masuda, & Lillis, 2006). Some researchers have suggested
214 that these approaches may extend the benefits of traditional Social Learning Theory based
215 parenting interventions (Dumas, 2005; Greco & Eifert, 2004) by assisting parents to develop

216 strategies for dealing with thoughts and emotions that may act as barriers to effective
217 parenting during times of distress. The approach has only begun to be used in the areas of
218 parenting and trauma, however, the objectives of the approach and the targets of change
219 are consistent with Kazak's PMTSM in that they aim to target an individual's appraisal of
220 their thoughts and emotions, and may therefore help parents to reduce the level of distress
221 they experience in relation to the events surrounding their child's illness/injury.

222

223 Program Adherence

224 The parent intervention groups will be facilitated by five mental health professionals
225 (e.g., psychologists and therapists). The intervention is highly manualised and includes
226 verbatim examples instructing facilitators on how to introduce key concepts during each
227 session. Each session will contain a schedule outlining the strategies that must be covered
228 during the session. To further ensure treatment fidelity the following strategies will be
229 employed:

- 230 • Each session will contain an adherence checklist and facilitators are responsible for
231 adhering to the checklist and completing it after each session.
- 232 • All facilitators will undergo extensive training in the delivery of the intervention. The
233 training will include observing the sessions being delivered by the leading clinician,
234 role playing session content and receiving feedback regarding the delivery of session
235 content.
- 236 • Audio of the sessions will be recorded using the Google Hangouts program. The
237 audio files will be stored on a password and firewall protected computer (on the
238 hard drive) which can only be accessed by members of the research team. The
239 taped sessions will be used to evaluate how the facilitators' perform in the session –
240 e.g., their adherence to the program material, their clinical delivery skills etc. A
241 team member will code aspects of the program to ensure treatment fidelity and to
242 give an indication of inter-rater reliability.

243

244

245 Treatment Arms

246 1. Take A Breath (TAB)

247 TAB will aim to provide parents with practical strategies and approaches to better cope
248 with the traumatic experience of having a seriously ill/injured child. The intervention will
249 incorporate strategies that seek to directly target the parents' perceptions of the events
250 surrounding their child's illness. The intervention will use a range of metaphors and
251 experiential activities based on the evidence-based approaches described above, to assist
252 parents to explore their current context and how best to cope as an individual, a parent and
253 a family during and beyond their child's diagnosis, treatment and recovery. Participants will
254 be encouraged to practice ideas and strategies from the program in between each session.
255 Each session will involve reflection of past session content and parent attempts to
256 implement program strategies.

257 TAB will incorporate strategies that assist parents to:

- 258 • Deal with the negative thoughts and emotions (stress, worry, anger, sadness)
259 that result from having a child with a SCII
- 260 • Maintain their parenting role in the face of their child's SCII and their own
261 emotional responses
- 262 • Develop plans for handling the disruptions to family relationships, roles and
263 activities
- 264 • Maintain/develop supportive social connections/networks

265

- 266 2. Waitlist control
267 The waitlist control group will receive standard clinical care within the hospital,
268 including access to nurses, consultants, social workers, and psychologists. After
269 completion of the pre and post intervention questionnaire as the comparison group,
270 the waitlist group will then be offered the TAB intervention if they are interested.

271 6. SUBJECT ENROLLMENT FOR SCREENING OF PARENTS

272 6.1 Recruitment

273 The details of the project and the study objectives will be provided to key staff from the
274 RCH Departments via a face to face briefing. These staff will be asked to promote the study
275 and the parent program to new families (within four weeks of diagnosis) attending the
276 department for treatment. A screening process will be used to determine eligibility for the
277 parent intervention program.

278 Participants will be parents of children during their first presentation for a diagnosis of
279 cancer, cardiac disease, or who have been admitted to hospital in the PICU department.
280 Participants will primarily be parents of children receiving inpatient services, however, in
281 some instances parents may be seeking services for their child on an outpatient basis.
282 Participants will be asked to consent to participate in Screening in order to determine their
283 eligibility into the RCT trial (parent intervention groups), to allow the research team to
284 access their child's medical records for relevant medical and demographic information, and
285 to consent to be recontacted in 3-6 months' time to be invited to participate in the RCT.

286 The Screening Questionnaire involves the completion of the ASDS on a single occasion
287 within four weeks of their child's diagnosis (T1) along with the Demographic Questions.
288 Parents who report pre-existing psychological conditions and/or other trauma/death will be
289 considered ineligible for the RCT. The information obtained from the Screening
290 Questionnaire, specifically the results from the ASDS, will provide key inclusion criteria
291 regarding eligibility into the RCT. Parents **must score greater than or equal to 9 on items 1**
292 **to 5 (dissociation items) AND greater than or equal to 28 on items 6 through to 19**
293 **(combined items from hypervigilance, re-experiencing and avoidance subscales)** using the
294 cluster scoring method. The ASDS will also provide important acute distress data on parents
295 psychosocial functioning within four weeks of their child's diagnosis/surgery/admission and
296 the demographic information gathered will ask about marital status, employment etc.

297
298

299 Eligibility Criteria

300 Inclusion Criteria

301 To be eligible to participate parents must meet all of the following criteria:

- 302 1. Parents must have a child aged between zero and eighteen years during their
303 first presentation treatment for a SCII (cancer, cardiac disease or who have been
304 admitted to hospital in the PICU department)
- 305 ○ Cardiac – child required surgery within the 1st month of life. This
306 decision was made following consultation with the Head of Cardiology
307 who recommended that we target this group of parents as they are
308 more likely to be traumatised compared to other parents of children
309 with cardiac disease.
 - 310 ○ Cancer – all cancer types
 - 311 ○ PICU – child's stay at PICU must be greater than or equal to 48 hours
- 312 2. Parents may be male or female

- 313 3. Both mothers and fathers can participate together or individually, however the
314 eligible parent must take part
- 315 4. Parents must have an active and current parenting role with the child (defined
316 as the person(s) who perceives that they have an active parenting role)
- 317 5. Parents must be able to comply with the study intervention and assessment
318 protocols. This will be determined by the researcher during registration contact
319 with the parent
- 320 6. Parents may have multiple children diagnosed with an SCII
- 321 7. Parents must be over 18 years

322 **6.2.2 Exclusion Criteria**

- 324 1. Parent has experienced other major trauma (e.g., death of child, partner or
325 other loved one in two months prior to child's diagnosis)
- 326 2. Parent has a pre-existing psychological condition
- 327 3. Parent does not have current access to children
- 328 4. Parent has limited spoken English and/or literacy. This will be determined by the
329 researcher during initial consultations with the parent
- 330 5. Child is not expected to live longer than 6 months

331 **SUBJECT ENROLLMENT AND RANDOMISATION FOR RCT**

332 **Recruitment**

333
334 Families determined as eligible from the Screening questionnaire (ASDS cluster scoring: a
335 score of 9 or above on items 1 to 5 AND a score of 28 or above on items 6 to 19) will be
336 invited to participate in the parent intervention program.

- 337 a. During the telephone call to invite parents to take part in the RCT the researcher
338 will describe in full the requirements of participation in the efficacy trial. Parents
339 will be sent a plain language statement and consent form (see Appendix 4: PICF
340 – Parent Intervention Group – Parent Version) and a flyer detailing information
341 about the TAB program. Parents will also be given the opportunity to ask
342 questions. Parents will be asked if they would prefer the PICF to be sent via the
343 mail or online. For those parents who have chosen to receive the PICF online,
344 they will be provided with the option of having a copy of the PICF either mailed
345 or emailed to them.
- 346 b. If neither parent is interested at that time, contact will cease unless the family
347 indicates they would like time to consider the study.
- 348 c. If a parent is interested in participating they will be asked to sign and return the
349 consent form to the Research Team in the provided reply paid envelope. For
350 those parents who have selected to consent online, they can either return the
351 signed PICF via email Parent and Researcher consent may therefore not be
352 dated the same.
- 353 d. Upon receipt of signed consent forms, parents will be enrolled into the study
354 and then randomly allocated to one of the two treatment arms.
- 355 e. If a family verbally consents to continue their participation when called, this
356 verbal consent will be noted in the trial database. At this point, the parents will
357 be enrolled into the study and then randomly allocated to one of the two
358 treatment arms. The researcher will again encourage the participating parent to

359 return written or online consent. If a parent requires the consent form to be
360 mailed out again, or if an email consent form is preferred, then the form will be
361 sent to the family once more, in another attempt to obtain written consent. If
362 we again have difficulty obtaining formal written or online consent, a second
363 verbal consent will be obtained over the phone prior to questionnaires being
364 sent out and participation in the program commences. During this same phone
365 call, a member of the research team will determine days and times that best suit
366 the parent for attending a parent program and schedule them into a group.
367 Parents allocated to the W-L arm will be advised when to expect the first set of
368 questionnaires and advised of the approximate starting month for their
369 participation in a group (following the completion of their post questionnaire).
370 f. Pre-assessment measures will be distributed two weeks prior to the
371 commencement of TAB group sessions to parents enrolled in the two treatment
372 arms. Pre-assessment measures must be completed by parents prior to the
373 commencement of the parent program. Parents have the choice to complete the
374 questionnaires online or via paper/pen format.
375 g. Any pre-assessment measures not returned/completed prior to the
376 commencement of the parent program will be followed up. Parents allocated to
377 the W-L arm will be followed up individually via their preferred method of
378 contact. For those parents within the W-L arm that have failed to return written
379 consent forms, another consent form will be sent with these pre-
380 questionnaires, and they will be encouraged to return the signed consent forms
381 when they return the pre-assessment measures.

382 Parents may choose to withdraw permission to participate at any time and request
383 removal of their information from the database.
384

385 Randomisation Procedures

386 Eligible parents will be randomised to either the parent intervention group or the W-L
387 group. This will typically occur between three and four months post their child's diagnosis.

388 Three randomisation lists will be generated, one list per participating department. This
389 will enable separate analysis by illness group as well as an overall exploration of outcomes
390 for families of children with SCII. Each randomisation list will contain twenty six spaces.
391 Participants will be randomly allocated to one of the two treatment arms using The RCH
392 Department, Clinical Epidemiology and Biostatistics Unit (CEBU), computerised
393 randomisation plan generator. This program will randomise each participant to one of the
394 two treatment arms using the method of randomly permuted blocks. The end result will be
395 two randomly allocated treatment arms of equal size divided between three randomisation
396 lists organised according to Hospital Department (Cancer, Cardiac and PICU).
397

398 **7.4 Blinding Arrangements**

399 Research team members responsible for recruiting families to the study or delivering the
400 TAB intervention to families will be blind to the randomisation list. No researcher involved
401 with recruitment or clinical delivery will have access to the randomisation list, thereby
402 ensuring they are blind to client allocation and ensuring the randomness of allocation. A
403 research officer, not involved in either the recruitment process or clinical delivery, will
404 manage the randomisation list. When a consent form is received the research assistant
405 responsible for recruitment will contact the research officer to have the participant placed
406 on the randomisation list for the correct department using their subject identification code.

407 The research assistant will be informed of the allocation and will then contact the parent to
408 discuss the allocation and plan their enrolment in a group as described above.

409 Researchers conducting the data analysis will be blind to participant identity and
410 allocation. Analysis will be conducted on re-identifiable data only. A research assistant not
411 responsible for analysis will conduct a re-identification of participant if needed.

412 Participants will be partially blinded. That means that participating parents will know if
413 they have been randomised to W-L or the parent intervention arm (TAB) once they have
414 been advised whether they will receive the intervention immediately or in two-six months'
415 time.

416 **7.5 Subject Withdrawal**

417 **7.5.1 Reasons for withdrawal**

418 Participants are free to withdraw from the study at any time upon their request or the
419 request of their legally acceptable representative.

420 The Research Team may withdraw a participant from the study (parent intervention and
421 follow up procedures) if:

- 422 • During the course of the study, one of the exclusion criteria is met (e.g.,
423 the ill/injured child dies)
- 424 • The participant experiences a serious or intolerable adverse event
- 425 • Early discontinuation is required for any reason

426 The Researchers will also withdraw all participants from the study if the study is terminated.

427 **7.5.2 Handling of withdrawals and losses to follow-up**

428 When a participant withdraws from the study, the participant will be contacted by a RT
429 member to discuss their reason/s for withdrawal if they have not already informed the
430 research team. The interviewer will open conversation regarding withdrawal or non-
431 participating by generally asking participants about their reasons for research
432 discontinuation. Participants can choose not to take part in the call. Once a participant has
433 withdrawn they are not required to complete any follow-up assessments and participation in
434 the study is discontinued. Any information gathered during the course of the study from
435 withdrawn participants will be kept unless participants request that their information be
436 destroyed.

437 If RT members are concerned about the wellbeing (e.g., elevated scores on psychometric
438 measures) of withdrawn participants actions to ensure the safety and wellbeing of these
439 participants will be taken (e.g., referral information will be provided, families encouraged to
440 link in with their nurse coordinator or social worker).

442 **7.6 Trial Closure**

443 Once the designated number of participants in the study has been reached (e.g., 184
444 participants have been randomised the RT will inform The RCH departmental staff who have
445 been promoting the study, that the study is closed to new participants. If potential
446 participants contact the RT to participate, they will be provided with appropriate alternative
447 referral options if needed. As outlined in the PDCF, participants will be provided with a
448 summary of group outcomes of the study. It is not anticipated that the study will cease
449 prematurely. The only foreseeable circumstance would be if funding for the study was
450 withdrawn. However in this case the RT would seek additional funding to complete the
451 study. Should any difficulties arise with recruiting the required number of participants, an
452 extension to continue the study will be sought. Again additional funding will be sought to
453 extend the study to ensure that the adequate number of participants has been achieved to
454 complete the study.

455

456 **8. STUDY IMPLEMENTATION SCHEDULE**

457 **8.1 Screening**

458 A maximum of 788 parents will participate in the screening process allowing for an
459 uptake rate of seventy per cent of these eligible parents (n = 552). Parents will be provided
460 with the Screening Questionnaire within four weeks of their child’s diagnosis.

461

462 **8.2 Parent Intervention Groups**

463 A total of 263 parents will participate in the main RCT study. It is anticipated that up to
464 30 parent groups will be delivered. A maximum of 10 parents will be enrolled into each
465 group to ensure that parents can participate fully in all aspects of the program.

466 Parent groups will be scheduled on different days and times, with evenings and/or
467 weekends being available. Sessions will be held once per week for a total of five consecutive
468 weeks with a sixth session held two to four weeks later. The sixth session is included as it
469 provides parents with a short period to practice and implement the skills and ideas taught
470 during the program and to address any difficulties or barriers that arise when implementing
471 them. All sessions will be delivered via online videoconferencing using Google Hangouts.

472 Parent programs will be commenced when enough parents have been randomised to
473 the TAB treatment arm to constitute a group (a minimum of 5). Parents randomised to the
474 Wait List arm will receive their pre questionnaires at the same time as the parents scheduled
475 to commence that TAB group. In this way the timing for their assessment points will be
476 matched to the participants in the TAB treatment arm.

477 Parents will be monitored by the practitioner facilitating the group they are attending
478 throughout the intervention and at each assessment point. Evaluation questionnaires will be
479 used to support the clinical judgment of the practitioner.

480

481

482 **8.3 Evaluation**

483 Assessment data will be collected from all participating parents. Additionally, data regarding
484 the child’s diagnosis and treatment will be extracted from the child’s medical file.

485

486 **Parents**

487 Parents will be asked to complete a series of participant measures on two separate
488 occasions. The participant measures from the TAB arm will then be compared to the
489 participant measures from the W-L at two time points (See Table 2 for detail).

490 • T2: Two weeks prior to parents attending the parent program (Pre)

491 • T4: Immediately following completion of the parent program (Post)

492

493 Immediately after T4 it is anticipated that parents in the W-L arm who wish to
494 participate will have had the opportunity to register and/or participate in the TAB parent
495 group.

496 It is anticipated that completion of the questionnaire package will take parents
497 approximately twenty to thirty minutes at each data collection time point. Parents will be
498 provided with the questionnaire and an envelope for sealing and returning the completed
499 questionnaire to the research team. Parents will also be provided with the option of
500 completing the questionnaires online.

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		<i>Parent</i>	
		Week	Task/Assessment Category
Time Point	T1: Screening	1	Demographic questions Acute Stress Disorder Scale (not for the developmental disability pilot study)
	T2: Pre-Assessment	20	Parent posttraumatic stress Experience of illness Child wellbeing Child Psychopathology Parent wellbeing Parent Psychopathology General Family Functioning
	T3: Intervention	23	Parent Program – Session 1
		24	Parent Program – Session 2
		25	Parent Program – Session 3
26		Parent Program – Session 4 Parent Program – Session 5 Parent Program – Session 6	
T4: Post Intervention	30	Parent posttraumatic stress Experience of illness Child wellbeing Child Psychopathology Parent wellbeing Parent Psychopathology General Family Functioning Acceptability	
T5: 6-month Follow-up	58	Same as pre-assessment measures only for intervention families	

509 Table 2. Implementation Schedule

510 **Screening Questionnaire**

511 *Acute Stress Disorder Scale (ASDS; R. A. Bryant, Moulds, & Guthrie, 2000)*

512 The ASDS is a 19-item self-report measure designed to assess acute stress disorders in
513 individuals in the acute period (up to 4 weeks) following a traumatic event and who may
514 be at risk of developing PTSD. The ASDS indexes acute stress disorder based upon the
515 criteria of the Diagnostic and Statistical Manual of Mental Disorders 4th ed. (DSM- IV).
516 The ASDS measures 4 cluster of symptoms - dissociation (5 items), re-experiencing (4
517 items), avoidance (4 items) and arousal (6 items). Responses are measured on a 4-point
518 scale ranging from Not at All to Very Much. Internal consistency for the total scale was
519 reported to be .96 and .84 for dissociation, .87 for experiencing, .92 for avoidance and
520 .93 for arousal.

521 *Demographic Questions*

522 A series of questions have been developed to obtain relevant demographic information
523 from participating parents. These were developed in consultation with the chief
524 investigators on the team, drawing on their research and clinical experience. A total of

525 19 items are to be completed by parents at Phase One Screening only and ask about
526 marital status, employment status, and education completed, language(s) spoken at
527 home.

528

529 **Pre-Assessment Parent Intervention Group Questionnaire**

530

531 **Primary Outcome Measure – Posttraumatic stress**

532 *Posttraumatic Stress Disorder Checklist – Version 5 (PCL5; Blevins et al., 2015)*

533 The PCL5 is a 20 item self-report instrument used to measure posttraumatic stress
534 symptoms in parents. The 20 items assess the 20 DSM-V PTSD criteria. Parents were asked
535 to complete the measure in relation to their child’s diagnosis. The Total Score (range = 0-80)
536 was used, with higher scores indicating greater PTSS. Internal consistency for the Total Score
537 in the current study was $\alpha=0.93$.

538

539

540 **Secondary Outcomes**

541 **Experience of Illness**

542 *Family Management Measure (FaMM; Knafl et al., 2009): measure taken from*

543 <http://nursing.unc.edu/research/famm/>

544 The 45 item (53 if participant has a partner) FaMM was developed to measure how
545 families manage caring for a child with a chronic condition/illness and the extent to
546 which they incorporate condition management into everyday family life. There are five
547 summated scales for all parents measuring the dimensions of Child's Daily Life,
548 Condition Management Ability, Condition Management Effort, Family Life Difficulty, and
549 View of Condition Impact as well as a sixth scale only for partnered parents measuring
550 the dimension of Parental Mutuality. Due to overlap with other questionnaires in the
551 protocol, the Parent Mutuality and Condition Management Ability are only included.
552 Items are scored from 1 to 5, meaning strongly disagree to strongly agree. Higher scores
553 on two of the scales (Condition Management Ability, and Parental Mutuality) indicate
554 greater ease in managing the child's condition. Higher scores on the other two scales
555 (Condition Management Effort, and Family Life Difficulty) indicate greater difficulty in
556 managing the condition. Internal consistency reliability (ICR) for the scales, adjusted for
557 inter-parental correlation, ranged from .72 to .90 for mothers and .73 to .91 for fathers
558 (Knafl, G., et al., unpublished manuscript). Test-retest reliability was based on responses
559 from 65 parents retested within 2-4 weeks and adjusted for inter-parental correlation.
560 It ranged from .71 to .94.

561 *Parent Experience of Child Illness (PECI; Bonner et al., 2006)*

562 The Peci is a 25 item measure of parent adjustment to a child’s serious or chronic
563 illness. Four factors found: Guilt and Worry, Emotional Resources, Unresolved Sorrow
564 and Anger, and Long-term Uncertainty. Bonner and colleagues (2008) (Bonner, Hardy,
565 Willard, Hutchinson, & Guill, 2008) reported test-retest reliability correlation
566 coefficients of .83 to .86. Internal reliability alphas were between .74 and .85. They also
567 found adequate discriminant and convergent validity. They also found the Peci to
568 demonstrate sensitivity to differences in participant’s medical status. These results

569 were found in a population of paediatric cancer patients. Further testing across other
570 medical groups would need to be conducted.

571 **Child Wellbeing**

572 *Paediatrics Quality of Life (PedsQL; Varni, Katz, Seid, Quiggins, & Friedman-Bender,*
573 *1998).*

574 The PedsQOL is a brief 23 item measure which assesses health-related quality of life
575 in children and adolescents across four dimensions. These dimensions, as delineated by
576 the World Health Organisation include Physical, Emotional, and Social and School
577 functioning. A Total Score, a Physical Health Summary Score and Psychosocial Health
578 Summary Score are derived. The inventory takes approximately four minutes to
579 complete. The inventory has a child self-report and parallel parent proxy report format
580 for ages 5-7, 8-12, and 13-18 years, which can be self-administered except ages 5-7
581 which has an interview format. Items are scored on a five-point Likert scale, ranging
582 from 'never a problem' to 'almost always a problem.' The child self-report for ages 5-7
583 is simplified for a three-point Likert scale. An example item from the child report is "It is
584 hard for me to walk more than one block". A higher PedsQL score indicates a better
585 quality of life. Internal consistency for the Total Scale Score ($\alpha = 0.88$ child, 0.90 parent
586 report), Physical Health Summary Score ($\alpha = 0.80$ child, 0.88 parent), and Psychosocial
587 Health Summary Score ($\alpha = 0.83$ child, 0.86 parent) have been reported to be
588 acceptable ((Varni et al., 1998). Reported to be responsive to clinical change over time.
589 The PedsQL distinguished between healthy children and paediatric patients with acute
590 or chronic health conditions.

591

592

593 **9.3.3 Child Psychopathology**

594 *The Brief Infant Toddler Social Emotional Assessment (BITSEA; Briggs-Gowan &*
595 *Carter, 2002).*

596 The BITSEA will be used as a measure of parent perceptions of their infant or child's
597 difficult behaviours and social-emotional problems. This is a questionnaire for infants
598 that are between 12 and 36 months old, and is therefore an alternative to the SDQ for
599 the infant cardiology group. The BITSEA consists of 42 items, which fall into seven
600 domains: internalizing, externalizing, dysregulation, competence, social relatedness,
601 maladaptive, and atypical. Items are rated on a 3-point scale (0=not true/rarely,
602 1=somewhat true/sometimes, 2=very true/often), with a higher score suggesting better
603 functioning. An example of an item is "Your child: Hits, bites or kicks you". The BITSEA
604 has good internal consistency and inter-rater reliability, and excellent test-retest
605 reliability (Briggs-Gowan, Carter, Irwin, Wachtel, & Cicchetti, 2004). Internalising,
606 externalising and dysregulation subscales will only be administered.

607 *OR (depending on age of child)*

608

609 *Behavior Assessment System for Children, Second Edition (BASC-2; Reynolds &*
610 *Kamphaus, 2004)*

611 *The BASC-2* measures maladaptive and adaptive behaviours and self-perceptions
612 of children. The parent rating scales were utilized according to the child's age, and

613 consist of 134-items for children aged 2-5 years, and 160-items for children aged
614 over 6 years. Respondents rate how the child has behaved in the last several months
615 (e.g. 'is easily upset'; 'has trouble making new friends'), on a 4-point scale from
616 "never" to "almost always". The BASC-2 has nine clinical scales, including
617 Hyperactivity, Aggression, Conduct Problems, Anxiety, Depression, Somatization,
618 Atypicality, Withdrawal, and Attention Problems, and three adaptive scales
619 including Adaptability, Social Skills, and Leadership. There are also four composite
620 scores including Externalizing Problems, Internalizing Problems, Behavioral
621 Symptoms Index, and Adaptive Skills. The BASC-2 has good psychometric properties,
622 with established validity, and internal consistency estimates ranging from the middle
623 .80s to middle .90s (Tan, 2007).

624

625 **Parent Wellbeing**

626 *Parental Psychological Flexibility Questionnaire- Short Form (PPF- SF; Burke, 2009)*

627 The PPF- short form (Burke, 2009) is a 19 item instrument that measures parental
628 psychological flexibility. The PPF consists of three subscales designed to measure key
629 elements of psychological flexibility: Emotional Willingness, Cognitive Defusion and
630 Acceptance and also provides an overall level of parental psychological flexibility via a
631 Total Score. The PPF was developed in Study 1 of the thesis that the current study is
632 part of. The measure demonstrates adequate psychometric properties, with good
633 validity and reliability for the Total Scale ($\alpha = .89$) and each of the subscales, Cognitive
634 Fusion ($\alpha = .90$), emotional Willingness ($\alpha = .74$) and Acceptance ($\alpha = .79$). An example
635 item is "My emotions get in the way of being the type of parent I would like to be". The
636 items are measured on a 7-point Likert scale from 1 = Never true to 7 = always true.

637 *Five Facet Mindfulness Questionnaire – Short Form (FFMQ-SF; Bohlmeijer, ten
638 Klooster, Fledderus, Veehof, & R., 2011)*

639 The FFMQ - SF, consisting of 24 items, is a multifaceted measure of a general
640 tendency towards day to day mindfulness. The five facets include Observing, Describing,
641 Acting, Nonjudging of Inner Experience, and Nonreactivity to Inner Experience. Items
642 are rated on a 5-point Likert scale ranging from 1 (never or very rarely true) to 5 (very
643 often or always true). For all facets, higher scores reflect higher levels of mindfulness.
644 The five facets demonstrated adequate to good internal consistency, with alpha
645 coefficients ranging from .75-.87 (Baer et al, 2006).

646 *Valuing Questionnaire (VQ; Smout, Davies, Burns, & Christie, 2011).*

647 The VQ8 is an 8-item questionnaire assessing the degree to which people live by
648 their values and is broken down into two subscales – Progress (extent to which people
649 felt that they lived their values in the past week) and Obstructed (the extent to which
650 cognitive and emotional barriers interfered with acting out their values in the past
651 week). Respondents answer items on 6 point likert scale from 0 – *not true at all* to 6 –
652 *completely true*. The VQ8 has very good internal consistency for both factors – Progress
653 $\alpha = 0.90$ and Obstructed $\alpha = 0.83$

654

655

656 *Acceptance and Action Questionnaire – II (Bond et al., in press).*

657 The AAQ-II, containing 7 items, assesses psychological flexibility/inflexibility (e.g.,
658 acceptance and experiential avoidance) on a 7 point likert scale ranging from 1 (never
659 true) to 7 (always true). Higher scores reflect greater experiential avoidance and
660 immobility and lower scores are indicative of greater action and acceptance.
661 Psychometric testing reported mean alpha coefficient across the six samples tested of
662 .84 (ranging between .78 - .88), and the 3- and 12-month test-retest reliability is .81 and
663 .79, respectively (Bond et al., in press). Findings from these studies indicate that the
664 measure is related to variables to which it is theoretically tied to. For example, higher
665 levels of psychological inflexibility, as measured by the AAQ-II, are associated with
666 greater levels of anxiety, stress, depression as well as overall psychological distress.

667

668 *Life Events Questions*

669 The life events questionnaire was developed by the senior investigators to obtain
670 information about potential psychosocial stressors that participating parents may have
671 experienced in the past 12 months (in addition to their child's serious illness/injury).
672 The questionnaire contains a total of 14 items and asks about job loss and reduced
673 work hours, recent pregnancies, moving home, suffering a serious illness/injury
674 themselves, separation/divorce, or whether they have experienced an event they found
675 traumatic. The parent is also asked to report on their partner. In addition to these
676 items, a final 15th item was included to ask about a history of mental illness in the year
677 prior to their child's illness/injury.

678

679 **Parent Psychopathology**

680 The Depression Anxiety Stress Scale, (P. Lovibond & S. Lovibond, 1995) was included as
681 a measure of the symptoms of depression, anxiety and stress. This 21-item factor requires
682 respondents to indicate how much each item applies to them on a scale of '0 Did not apply
683 to me at all' to '3 Applied to me very much or most of the time. The DASS-21 has been shown
684 to have good internal consistency reliability, with Cronbach's alpha coefficients reported as .88 for the
685 Depression Scale, .82 for the Anxiety Scale, .90 for the Stress Scale, and .93 for the Total Scale (Henry,
686 & Crawford, 2005). The DASS will also be administered at pre, post and follow up one and two.

687

688 **Acceptability**

689 *Consumer Satisfaction Scale (Parenting Research Centre, 2010).*

690 The CSS is a measure of consumer satisfaction with parent training programs. It
691 assesses the quality of the service provided; how well the program met the parent's
692 needs and changed behaviour, and whether the parent would recommend the program
693 to others. Parents are also prompted to make general comments or suggestions about
694 the program. The instrument is included as a measure of parental perceptions of the
695 program, the information provided by parents will be used to refine and improve the
696 program. This measure will be completed at Time 4 (post program completion) only.

697

698 **11. STATISTICAL METHODS**

699 **Sample Size Estimation**

700 In order to detect a difference of 6.0 (SD: 13.9) points (thought to be a clinically
701 important difference in parents' experience of distress) in the Posttraumatic Stress
702 Disorder Checklist (PCL- 5) measure, between the two treatment arms, with a
703 significance level of 0.05 and power of 0.80, 82 participants will be required per arm.
704 Allowing attrition, we therefore aim to recruit a total of 184

705 **11.2 Population to be analysed**

706 Data will be cleaned in the Statistical Package for the Social Sciences (SPSS) using
707 procedures outlined in Tabachnick and Fidell (2007). Missing value analyses will be
708 conducted and expectation maximisation techniques will be used to impute subscale
709 data missing completely at random. Data will be imputed for participants completing at
710 least 70% of items on that subscale; all other items on the subscale will be used to
711 estimate missing data. If participants completed less than 70% of a subscale their data
712 will be not imputed and the participant will not be included in analysis involving that
713 subscale.

714 Both completer and intention-to-treat analyses will be conducted. Average closest
715 match techniques (Elliot & Hawthorne, 2005) will be used to replace missing post and
716 follow-up data for those who did not return questionnaires. This involves using the
717 average post/follow-up-intervention value obtained by participants reporting the same
718 pre-intervention score (or the four participants reporting the closest pre-intervention
719 score), to replace the missing data for that case. This technique is considered a reliable
720 and efficacious approach for managing missing data (Elliot & Hawthorne, 2005).

721 **11.3 Statistical Analysis Plan**

722 Demographic, illness group (oncology, PICU, cardiac) and screener characteristics
723 will be compared between groups. For parent-level data (for couples that were both
724 eligible), categorical variables will be compared using Generalised Estimating Equation
725 (GEE) models to account for within-couple correlation (with the exception of parent sex
726 and illness group). A GEE with a Gaussian distribution will be employed to compare
727 group means of the screening measure. Time between measurements using linear
728 regression models, and illness group distributions will be compared using a chi-squared
729 test.

730 GEE models will compare mean outcome measures between groups at T3, and GEE
731 models will also account for within-couple correlations. Effect size Cohen's d will be
732 calculated, and interpreted as small<0.2, medium>0.2-0.5, large=>0.5-0.8, very large
733 >0.8 (Cohen, 1988).

734 Further analyses will include exploration of the predictors of intervention outcome,
735 and a thorough analysis of treatment adherence, compliance with intervention and
736 other process variables. Detailed descriptive analysis of pre-intervention child, parent
737 and family characteristics will also be conducted to thoroughly explore the
738 characteristics of families attending a parent focused, psychosocial intervention.

739

740 **11.4 Interim Analyses**

741 No interim analyses will be done for this study.

742 **12. DATA MANAGEMENT**

743 **12.1 Data Collection and Data Storage**

744 Participant questionnaire results (hereafter defined as source data) will be collected
745 using paper pencil format or online across the T2 and T4 points. Primarily these
746 questionnaires are completed online using the RedCap program as parents prefer this
747 format. Participants completing them using paper and pencil will be provided with a
748 reply paid envelope to seal their results and return it to the RT at the MCRI. A research
749 assistant will check the incoming mail on a daily basis. When the research assistant
750 receives the completed questionnaire he/she will tear the first page off the
751 questionnaire to re-identify and record the participant's code on the questionnaire on
752 each remaining page.

753 The source data will be managed using the RedCAP database, and will be held at the
754 MCRI in a secure room on a password protected computer. The RedCAP Database will
755 be used to track participants' movement through the study, including eligibility,
756 dropout and data collection processes SPSS will be used to store and analyse the re-
757 identifiable data for participants. Hard copy consent forms and questionnaires will be
758 kept separately in a locked compactus at the MCRI. The guidelines contained in the
759 Consolidated Standards of Reporting Trials (CONSORT) statement will be adhered to.
760 This enables detailed recording of participants across time. As such, information will be
761 collected on both eligible and ineligible families, as well as families that refuse to
762 participate. For ineligible and refusals, information will track demographic information
763 (SES, postcode, age of child, family structure) and reasons for ineligibility/refusal. No
764 identifying information will be collected on these families. Participants that withdraw
765 from the study after commencement will be phoned, with their permission, to have a
766 short conversation about their main reason from withdrawing from the project. The
767 information will help to track reasons for participant retention and loss to the program
768 and/or study.

769 Details regarding the patients' illness including date of diagnosis, diagnosis type,
770 number of visits to the Emergency Department (ED) and number of days of admission
771 will also be collected for study participants (parents who have returned consent forms).
772 This information will be obtained from departmental/hospital databases by requesting
773 a medical record extraction from The RCH Patient Information System (IBA). Patient
774 diagnoses will be described. Length of treatment will be calculated from date of
775 diagnosis to date for parents' completion of questionnaires. A member of the RT will
776 collect the record and store it in a secure filing cabinet at MCRI prior to returning it to
777 medical records.

778 All audio files recorded during the delivery of the intervention will be stored on a
779 password and firewall protected computer in a locked room and will contain audio from
780 both practitioner and parents. They will also be securely shared with the team's clinical
781 supervisor using the MCRI OwnCloud system.

782 **13.3 Registration as Clinical Trial**

783 The project has been registered as a clinical trial with the Australian New Zealand
784 Clinical Trials Registry (ANZCTR) which sets the standards for the uniform reporting of
785 the minimum registration data set as determined by the World Health Organization and
786 the International Committee of Medical Journal Editors. ANZCTR Registration Number is
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