Reconnecting mothers and children after violence (RECOVER): a feasibility study protocol of child–parent psychotherapy in Australia

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ABSTRACT

Introduction Intimate partner violence detrimentally affects the social and emotional well-being of children and mothers. These two populations are impacted both individually and within the context of their relationship with one another. Child mental health, maternal mental health and the mother–child relationship may be impaired as a consequence. Early intervention to prevent or arrest impaired mother–child attachment and child development is needed. Dyadic or relational mental health interventions that include mothers with their children, such as child–parent psychotherapy, are effective in improving the mental health of both children and mothers and also strengthening their relationship. While child–parent psychotherapy has been trialled overseas in several populations, Australian research on relational interventions for children and women recovering from violence is limited. This study aims to assess the acceptability and feasibility of implementing child–parent psychotherapy in Australian families.

Methods and analysis Using a mixed methods, prepost design this feasibility study will examine the acceptability of the intervention to women with preschool aged children (3–5 years, n=15 dyads) and providers, and identify process issues including recruitment, retention and barriers to implementation and sustainability. In addition, intervention efficacy will be assessed using maternal and child health outcomes and functioning, and mother–child attachment measures. Young children’s mental health needs are underserviced in Australia. More research is needed to fully understand parenting in the context of intimate partner violence and what works to help women and children recover. If the intervention is found to be feasible, findings will inform future trials and expansion of child–parent psychotherapy in Australia.

Ethics and dissemination Ethics approval obtained from clinical sites and the La Trobe University Human Research Ethics Committee (ID: HEC17-108). Results will be disseminated through conference proceedings and academic publications.

INTRODUCTION

Intimate partner violence

Although there are many forms of violence that occur within parental couples and towards children,1 intimate partner violence (IPV) is overwhelmingly a gendered form of violence that specifically affects both child and mother simultaneously.2 IPV is defined as behaviour by a partner or ex-partner that includes physical, sexual and/or psychological abuse and controlling behaviours. This violence results in significant social, health and economic costs.2 3 One in three women have experienced some form of IPV in their lifetime.2 IPV is more prevalent in women of childbearing age (especially with children under 5)4 and consequently, children are frequently exposed and affected by the abuse. These children are also at greater risk of experiencing other forms of child abuse.5 Up to 1.9 million (or 43%) of Australian children witness IPV and/or parental conflict.6

IPV and children

Early life exposure to abuse and trauma is harmful to the growing brain, with profound cognitive and developmental effects. IPV can be defined as a traumatic experience and can lead to poor mental health and diagnostic problems such as posttraumatic stress...
disorder (PTSD). High cortisol levels associated with witnessing or experiencing IPV can impact on children’s immune function, with persistent fear and anxiety activating a prolonged stress response, which is toxic and changes the structure and physiology of the child’s developing brain. This is especially so in the areas of the brain associated with emotions and learning, where changes can in turn impact on behaviour, controlling and focusing attention, memory and decision making.

The first 5 years of life represent a critical developmental period making infants and young children particularly vulnerable to the harmful and pervasive developmental impacts of IPV. Consequently, children exposed to IPV may suffer a range of serious sociobehavioural, academic, mental and physical health problems. Meta-analyses show that the most common child mental health conditions associated with IPV include mood disorders, behaviour problems and trauma symptoms.

Adverse childhood experiences, which include exposure to IPV and child abuse, are associated with lifelong negative consequences, including physical and mental health issues, substance use, long-term chronic illness into adulthood and premature death. A dose response is also evident, as the greater the exposure to adversity (duration, intensity and cumulative harm), the greater the subsequent impairment. The co-occurrence of IPV and child abuse also puts children at further risk of victimisation and ongoing intergenerational violence in later life.

Infant mental disorders contribute towards a significant disease burden worldwide. Intervening to support young children in their caregiving relationships after violence can decrease their immediate suffering and address potential future mental health risk. Consequently, more government investment in prevention and early intervention would be cost effective and is urgently needed.

IPV and mothering

Parenting in the context of IPV is a complex and under-researched area. IPV may have a negative impact on women’s parenting capacity by reducing their emotional and physical availability and competence to attend to their children’s needs. In addition to the direct abuse, the person using violence may employ deliberate strategies to undermine women’s parenting, including involving children in dynamics associated with the coercion and control of their mother. The person using violence will often denigrate her social expectations and identity as a ‘good mother’. Mothers may also denigrate and blame themselves for failing to protect their children from violence. These abusive dynamics interfere with motherhood, often depriving women and children of a mutually enjoyable relationship with one another. Violence in the home is often not discussed between mothers and children, which detrimentally affects the individual and dyadic relationship.

Resiliency and attachment

The consequences of IPV (for the child) vary according to individual, family and community resiliency. Not everyone who experiences a traumatic event also experiences a mental health disorder, but some do become symptomatic and need assistance. Supportive grandparents, positive friendship networks and positive peer or sibling relationships are protective against the negative consequences of abuse. Self-esteem and a sense of control or self-efficacy are core building blocks of resilience. Love, consistent and supportive care from the non-violent parent are important factors in mitigating child trauma. Mother–child dyads that display secure attachment relationships (where the child feels their parent consistently meets their emotional and physical needs) are associated with children having fewer behavioural problems, higher levels of social competence, language skills and school readiness and being less reliant on adults, compared with insecure children. While there is extensive evidence that exposure to IPV is associated with serious physical and mental health issues, very few therapeutic relational interventions exist to address the violence and trauma experienced by women and children, and to heal the mother–child relationship.

Interventions for children

While accurate data on the prevalence and burden of mental health disorders in infants and young children is difficult to determine (poorly reported and poorly identified), global evidence suggests up to 20% of young children (0–5 years) suffer mental health disorders, similar rates to that of older children and adolescents. Young children’s mental health needs are significantly underserviced in Australia, with less than 1% of 0–4 year olds receiving a mental health service. Interventions for children exposed to IPV range from crisis, counselling and/or group therapeutic work, and multicomponent interventions combining parenting, advocacy, psychoeducation, child mental health and social support. Programme efficacy is difficult to determine as few programmes are evidence based or extensively evaluated.

Recent review evidence suggests psychotherapeutic and psychoeducational programmes focused on behavioural and mental health outcomes are associated with modest improvements, although study quality is poor and the sustainability of effects beyond 1 month is unknown. There have been calls for IPV intervention outcome measures to be expanded beyond child health to explore meaningful outcomes for parents, child participants and practitioners. Beyond trauma symptoms, the maternal health and well-being benefits of dyad therapy for women affected by IPV are yet to be determined. More high-quality trials are needed to evaluate the effectiveness of psychological interventions for children exposed to trauma. Researchers working together on existing programmes (rather than developing new ones) can enhance scholarship in the field,
with consensus on a standardised outcome set that includes more functional outcomes.\textsuperscript{23,25}

**Child–parent psychotherapy**

The strongest evidence from reviews include international randomised controlled trials\textsuperscript{26,27} which highlight the therapeutic benefit of working with mothers and children together in the aftermath of IPV. Psychotherapeutic interventions (such as child–parent psychotherapy [CPP]) that include combined sessions with the mother and child, show significant and positive differences for the mental health of mothers and the behavioural and emotional functioning of children, compared with controls.\textsuperscript{28} Dyadic interventions with a focus on maternal sensitivity and reflective function (ie, mothers’ ability to reflect on her own and her child’s behaviour, thoughts and feelings; and on her personal experience and history affecting current caregiving interactions) show most benefit.\textsuperscript{29}

CPP is a relationship-based treatment for parent–child dyads (children from birth to 5 years) who have been traumatised by violence and are experiencing emotional, attachment and behavioural difficulties. The treatment is based on various theories including attachment, parenting, trauma, social learning, cognitive behavioural theories and intergenerational transmission of child maltreatment and violence.\textsuperscript{29} CPP has been evaluated in several US-based randomised controlled trials with IPV exposed and maltreated children,\textsuperscript{27,30–32} with at risk samples such as anxiously attached dyads\textsuperscript{11} and depressed mothers and their children.\textsuperscript{33–35}

The main goals of CPP are to reduce child trauma symptoms and behavioural problems, and to strengthen the relationship between the mother and the child exposed to IPV. The dyad relationship acts as the vehicle for restoring the child’s normal developmental trajectory, including children’s general functioning and sense of safety and their primary attachment relationships. The cocreation of trauma narratives facilitate healing and resolution.\textsuperscript{29} Combined psychotherapy for children exposed to IPV is now recommended by the WHO,\textsuperscript{36} consequently testing of CPP has expanded beyond the USA.\textsuperscript{37,38}

**Access to evidence-based family violence and trauma informed relational therapy in Australia**

Therapeutic services are available to Australian women and children who have experienced trauma, often through counselling and mental health services. However, services including mental health, child welfare and family violence are often siloed, with separate services for women and children.\textsuperscript{39}

Where there is ongoing, postseparation IPV and symptoms of trauma (that are subthreshold for a mental health diagnosis), child and adolescent mental health services may refer clients to either child protection or to a primary or secondary healthcare service. If mothers are assessed as being ‘protective’ (not perpetrating the violence), the family becomes ineligible for specialised therapeutic services. Healthcare practitioners may or may not be trained in providing evidence-based dyadic relational intervention or family violence risk assessment. Family violence services may or may not employ trained infant and child mental health professionals or have clinical governance processes in place to support quality child interventions. This leaves a significant population of mother and child victims unable to access recovery options.\textsuperscript{40} Subsequently, very few Australian services have offered dyadic therapy for IPV victims,\textsuperscript{13,40} nor have programmes been rigorously evaluated.\textsuperscript{13,41}

Although dyadic/triad interventions for the whole family, including fathers (as parents and previous users of violence) are required,\textsuperscript{42} in this feasibility study, we are only focusing on mother–child dyads (like the original Lieberman trial)\textsuperscript{27} to explore improvements in the mother–child relationship. Considering the strong level of evidence on the consequences of IPV, the effectiveness of CPP and dyad therapies for children exposed and the call for more intervention research in the field, the Reconnecting mothers and children after violence (RECOVER) project team proposes to implement and evaluate the Lieberman et al\textsuperscript{,29} CPP model in Australia.

The protocol and feasibility study findings will assist international researchers investigating CPP, and if effective, inform the implementation of a future randomised controlled trial and facilitate wider implementation of the treatment programme throughout Australia.

**AIM AND RESEARCH QUESTIONS**

To implement and evaluate the CPP model\textsuperscript{29} of care for Australian families.

The RECOVER project will address the following research questions:

1. How effective is treatment during the study?
   a. How acceptable is the intervention (and its evaluation) for women and service providers?
   b. What are the barriers and facilitators to implementation of the CPP model into services?
   c. What (if any) are the dyad recruitment and retention issues encountered?
   d. Are there process and impact differences between service providers in metropolitan and rural intervention sites?

2. How closely do trainee therapists adhere to CPP model fidelity?
   a. How well do therapists undergoing CPP training and delivering CPP, adhere to CPP programme goals and model fidelity at each dyad session?

3. How effective is treatment during the study?
   a. Do women’s and children’s trauma symptoms differ before and after treatment?
   b. Does treatment improve the mother–child relationship?
METHODS AND ANALYSIS

Design

We propose a concurrent, mixed methods feasibility study to assess acceptability, implementation processes and test model efficacy. In a longitudinal, repeated measure design, reliable outcome measures will be assessed at three time points: baseline (preintervention), 12 weeks into the core CPP phase (midpoint) and at the completion of the intervention (post). Clinical data of measures will be collected from service records. Qualitative in-depth interviews with therapists and managers will occur mid-intervention and postintervention. Women will be interviewed post-treatment. Direct observation of dyad interaction throughout the treatment will be recorded and assessed.

Therapeutic interventions to support women and children need to be sustainable. Process evaluation will help us to understand the feasibility of implementation and sustainability. In this study, factors influencing integration of the CPP model will be explored using May and Finch’s implementation framework—normalisation process theory (NPT). 43

Participants

We aim to recruit 15 dyads from specialist, domestic violence and child and adolescent mental health services via intake systems. These study sites have been chosen due to interest from service providers and existing partnerships. As CPP training takes 18 months to complete, all therapists will be undergoing CPP training during the time of the study. Masters level clinicians (social workers, mental health nurses, child psychotherapists and psychologists), with experience in infant–parent mental health and currently working in the above clinical settings, were invited to complete CPP training and deliver the intervention.

The CPP training and supervision is conducted by an endorsed international CPP trainer from the USA. In this study, the small sample reflects the emphasis on exploring feasibility rather than efficacy.

Dyad recruitment criteria

Inclusion criteria

► Preschool aged child (3–5 years).
► Biological mother of child.
► English speaking mother.
► Recent exposure to IPV (past 12 months).
► Mother has received subsequent IPV assessment and advocacy support (risk assessment and safety plan, counselling and referral to legal, housing, healthcare).
► Postcrisis or not living with the person using violence.
► Maternal readiness to engage.
► Clinical signs of trauma (e.g., child presenting with emotional or behavioural issues/impaired mother–child interaction based on clinical assessment).

Exclusion criteria

► Mother–child dyads where the person using violence continues to use violence and live in the family home or there is insufficient safety.
► Mothers who have been substantiated/documenting abusers of the child.
► Mothers who are currently abusing substances.
► Previous diagnosis of maternal intellectual disability.
► Significant maternal mental illness, for example, psychosis.
► Children with a significant intellectual disability and/or autism which interferes with their capacity for engagement in treatment.

Recruitment process

The majority of participants will be recruited and receive treatment through domestic violence and child and adolescent mental health services, in metropolitan and regional areas. Due to organisational capacity, a smaller number of dyads will be recruited from other services such as maternal and child health. Potential mother–child dyads entering services will be screened by CPP therapists to determine participant eligibility for the project, describe the study and gain informed consent.

Intervention

CPP is a psychotherapeutic intervention for parents and children who have experienced some form of trauma. Delivered in hour long weekly sessions, by specialist therapists, core treatment ranges from 20 to 32 weeks or more, depending on family need, 29 and includes three phases:

1. Foundation phase—assessment and engagement sessions (4–6 weeks).
2. Core intervention length varies depending on the need.
3. Termination-promoting sustainability and post assessment (<8 weeks). 29

The type of trauma exposure, child age, developmental status and clinical symptoms all determine the structure and length of the CPP sessions. Therapy for young infants and children includes working with the mother to help her understand how the experience has impacted on the child’s functioning. Play-based therapy is used with older children to facilitate communication between the mother and child. The therapist enables past maternal trauma to be acknowledged, including how this trauma can interfere with the mother’s response to the child and alternative, more developmentally appropriate ways of interacting with her child are addressed. 29 Ongoing risk and safety assessment/planning will be completed by therapists at regular intervals during treatment and appropriate referral made to supports when needed. Maternal survey questions also ask about ongoing abuse and exposure to the perpetrator in the past month.

CPP providers and training

Through training, peer supervision and clinical practice opportunities, this project will develop and promote a national CPP Community of Practice that aims to build workforce capacity, enhance practice, and provide a vehicle for ongoing education and professional networking for those working in the field. Currently,
there is a lack of professionally qualified therapists or clinicians with specialist training in family violence and trauma informed care, and evidence-based relational therapy. The project will work to redress this gap, as part of the broader emerging family violence therapeutic service system reforms in Victoria, by building an experienced, specialised workforce in CPP and trauma and violence informed, mental healthcare for young children and their mothers.

**Process evaluation**

**Implementation**

We will use NPT to design the evaluation and explore processes of implementation of the CPP model. This sociobehavioural theory provides a conceptual framework for understanding the social organisation of the work (implementation), of making practices routine elements in everyday life (embedding), and of sustaining embedded practices in their social contexts (integration). NPT consists of four core inter-related working principles needed for successful integration of new practices—coherence (sense making work), cognitive participation (relational work), collective action (operational work) and reflexive monitoring (appraisal work). These principles will frame the data collection tools and support the intervention and interpretation/evaluation processes, helping to pragmatically explain the dynamics of how the CPP model is implemented. In addition to qualitative process evaluation, descriptive quantitative data on intervention fidelity, reach and dose will be collected.

**Intervention fidelity, reach and dose**

CPP fidelity monitoring is essential due to potential diversity of clinical presentations and programme flexibility. The CPP manual describes a six strand fidelity framework, which includes reflective practice, emotional process, dyadic relations, trauma framework, procedural and content fidelity. Each CPP phase has detailed fidelity tools incorporating this framework, which will be completed by clinicians. Clinicians will complete fidelity logbooks after each consultation, which indicate adherence to CPP goals. Throughout official CPP training, treatment fidelity is closely monitored through review of process notes and regular clinical supervision. Clinical data will be collected on maternal, child and/or dyad assessment, fidelity measures, and the intervention reach (number of eligible dyads offered CPP) and dose (sessions attended/delivered).

**Data management**

Participants and therapists will be given a unique ID code for use throughout the study. A secure, purpose-built online electronic database will be used to record and store all data including participant and therapist details. Dyadic interaction will be recorded using tablet devices. Onsite clinical researchers will regularly collate intake, fidelity and survey data. All data will be uploaded as electronic files to the university research drives that are securely stored.

**Outcome measures**

When deciding on outcomes measures to use in this study, we considered (a) measures used in the original Lieberman trial and those recommended by CPP developers; (b) calls within the literature to expand assessment beyond child mental health and behaviour; (c) participant and therapist burden; (d) service provider capacity and experience; (e) instrument and training costs and (f) the age of children.

Primary outcomes include maternal and child mental health and trauma (PTSD) symptoms and child behavioural problems. PTSD in 3–5-year olds is often displayed as behaviour problems and these are used as a basis for description of the disorder (table 1).

Secondary outcomes will measure recovery by assessing parenting (self-efficacy, warmth, irritability and consistency), reflective functioning (or the mother’s ability to hold the child’s mental states in mind), responsiveness and the mother–child relationship/interaction.

**Data collection time points**

**Preintervention**

Therapists will collect baseline quantitative outcome measures using a maternal survey and parent–child interaction free play recording in the foundation phase of treatment. Survey responses will also capture women’s expectations of the treatment and outcomes that most suit their needs. Further details on outcome measures are provided in table 1. Therapists will document fidelity, attendance rates and dose for each dyad at each session.

**Midpoint**

While the true midpoint of a flexible, needs based intervention is undetermined, findings from previous CPP studies suggest dyads require between 20 and 32 weeks of core therapy. Consequently, we have defined our midpoint evaluation to be at 12 weeks. Researchers will conduct process evaluation interviews with CPP therapists and managers using NPT, to explore feasibility, experiences and contextual factors related to implementation. Therapists will also collect maternal report of quantitative outcome measures and record direct observation of dyad free play.

**Postintervention**

Researchers will conduct impact evaluation interviews with mothers, therapists and managers using NPT, to explore feasibility, perceptions/experiences and contextual factors related to implementation. Quantitative outcome measures and dyad free play recording will be completed by therapists in the termination phase of treatment.

**Analysis**

Interview data will be audio recorded, transcribed, coded and analysed using an NPT lens. Process
evaluation will assess the model’s feasibility and identify contextual programme barriers and facilitators to inform future research. NVivo coding software will be used to assist the analysis, and a portion cross-coded for reliability. Descriptive and inferential statistical analyses will be completed using STATA V.15. Proportions and means will be calculated to describe fidelity and feasibility measures. Paired-samples t-tests will compare mean scores at different time points. Effect size calculations will detect meaningful change in outcomes across time, among this small sample. Comparison will also be made between rural/regional and metropolitan groups and with the findings from the original Lieberman trial and follow-up study. Direct observation data (video recordings) will be viewed and coded using a coding scheme specifically designed for observation of parent–child interaction called Coding of Attachment-Related Parenting (CARP). Ten percent of recordings will be double-coded. If parents do not consent to recording, then therapists will make notes of parent–child interaction and these notes will then be coded and analysed using the CARP guide.

Cost evaluation
A cost–benefit analysis is unable to be determined in this prepost study design due to the lack of a comparison group. In preparation and to inform our future randomised controlled trial, we plan to assess the feasibility and acceptability of capturing the cost of intervention data. Postintervention, costs such as therapist training and provider delivery (salaries and travel) will be collected, along with the costs to women attending sessions (travel to therapy and child care for older children).

### Table 1  RECOVER project outcome measures and data collection time points

<table>
<thead>
<tr>
<th>Outcome measure</th>
<th>Pre</th>
<th>Mid</th>
<th>Post</th>
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<tbody>
<tr>
<td>Maternal health and well-being</td>
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<tr>
<td>Symptoms Checklist-90 Revised[^19]</td>
<td>x</td>
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<td>x</td>
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<tr>
<td>PTSD Symptom Scale-Interview[^50]</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Composite Abuse Scale[^51]</td>
<td>x</td>
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<tr>
<td>Child functioning and trauma symptoms</td>
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<tr>
<td>Strengths and Difficulties Questionnaire[^52]</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Young Child PTSD Checklist[^53]</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Parenting</td>
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<tr>
<td>Parental self-efficacy, warmth, irritability and consistency[^54]</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Mother–child relationship</td>
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<tr>
<td>Parental Reflective Functioning Questionnaire[^55]</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Recording of parent–child interaction assessed using Coding of Attachment-Related Parenting[^46]</td>
<td>x</td>
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</table>

[^19]: PTSD, posttraumatic stress disorder.

### Patient and public involvement

This paper is a protocol outlining the process of assessing the feasibility of implementing CPP into the Australian context. There was no patient or public involvement in establishing the research questions or study design; however, participant burden was considered in the design and data collection methods, and patient experience will be explored as part of the feasibility and acceptability of the programme. Study findings will be available to study participants enrolled in the study, with dissemination of findings to service organisations.

### DISCUSSION

There is an urgent need for effective therapeutic treatment options for women and children exposed to violence. While the evidence base regarding the acceptability, effectiveness and costs of interventions is unclear, the US-based Lieberman et al[^29] CPP model of treatment appears to be most effective for mother–child dyads exposed to violence. In Australia, while treatment options do exist for women and children, programmes have historically been delivered by poorly funded, community organisations and as such, have not been rigorously evaluated.[^13]

This study aims to assess the feasibility of introducing the Liebermann et al[^29] model of CPP to Australian families, to enable healing from trauma and repair of the mother–child relationship after IPV. A sound feasibility study is required to test implementation of the CPP model in the Australian context, including how the intervention may be adapted for delivery in community-based urban, regional and rural settings.

As has been seen with other effective complex interventions, adaptations into other countries may not show similar results.[^47] Australian healthcare, service delivery...
and family needs are very different to the USA (funded health services, differences in population diversity/culture) and need to be considered when implementing CPP. Lynch 46 cautions that ‘positive effects found in studies conducted decades ago and in other countries where control conditions or usual care are vastly different to those in 21st-century Australia ought to be carefully scrutinised.’ 46

More Australian research is needed to fully understand parenting in the context of abuse and what works to help women and children recover. Dyadic psychotherapeutic interventions may be most effective given that the CPP methodology offers an early intervention pathway to mitigate the long-term effects of IPV on families and developing children. If feasible and effective, findings will inform future trialling and expansion of CPP nationally.

Study timeline
The project started in January 2017, with expert reference group/steering committee input monthly during the 12-month planning phase. Applications for ethical approval were submitted in November 2017 and January 2018, with approval received in December 2017 and February 2018. This study began recruiting in February (domestic violence services) and March (child mental health service) 2018 with plans for a 3-month recruitment phase. Intervention will be up to 12 months, with completion of the project scheduled for January 2020.

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Contributors
CH and AT are chief investigators for this study. LH is a project coordinator, who drafted the manuscript, ethics submissions and document preparation. All authors (LH, ET, VR, CH, EW, AM and AT) contributed to study design. ET and VR are site clinicians providing valuable input on practice considerations and organisational integration of the intervention. All authors reviewed and approved the final version of this manuscript.

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Competing interests
None declared.

Patient consent for publication
Not required.

Ethics approval
Ethics approval was obtained from all clinical sites and the La Trobe University Human Research Ethics Committee also approved the project (ID: HEC17-108). On completion, results of the study will be published in academic journals and presented at national and international conferences.

Provenance and peer review
Not commissioned; externally peer reviewed.

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