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# BMJ Open

## Protocol for developing Core Outcome Sets for evaluation of psychosocial interventions for children and families with experience or at risk of child maltreatment or domestic abuse

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**TITLE** Protocol for developing Core Outcome Sets for evaluation of psychosocial interventions for children and families with experience or at risk of child maltreatment or domestic abuse

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1     **ABSTRACT**

2     **Introduction**

3     Widespread recognition that child maltreatment (CM) and domestic violence and abuse (DVA) are

4     common and have serious and long-term adverse health consequences, has resulted in policies and

5     programmes to ensure that services respond to and safeguard children and their families. However,

6     high quality evidence about how services can *effectively* intervene is scant. The value of the current

7     evidence base is limited partly because of the variety of outcomes and measures used in evaluative

8     studies. One way of addressing this limitation is to develop a Core Outcome Set (COS) which is

9     measured and reported as a minimum standard in the context of trials and other types of evaluative

10    research. The study described in this protocol aims to develop two discrete core outcome sets for use

11    in future evaluation of psycho-social interventions aimed at improving outcomes for children and

12    families at risk or with experience of i) CM; or ii) DVA.

13    **Methods and analysis**

14    We will use a two-phase mixed methods study design. Phase 1 (outcome generation) will include rapid

15    reviews of evidence (trials, qualitative, grey), stakeholder workshops and semi-structured interviews

16    with adult survivors of CM/DVA and parents. Phase 2 (outcome identification) will include a three

17    panel (professionals, researchers, survivors) adapted eDelphi study and consensus meeting. This

18    study protocol adheres to reporting guidance for core outcome set protocols and has been registered

19    on the COMET database (<http://www.comet-initiative.org/Studies/Details/1576>).

20    **Ethics and dissemination**

21    We will disseminate our findings through peer reviewed and open access publications, the COMET

22    website, and presentations at international conferences. We will engage with research networks,

23    journal editors and funding agencies to promote awareness of the CM- and DVA-COS. We will work

24    with advisory and survivor and public involvement groups to co-produce a range of survivor, policy

25    and practice facing outputs.

26    Ethical approval for this study has been granted by the Research Ethics Committee at University

27    College London.

28    **STRENGTHS AND LIMITATIONS OF THIS STUDY**

29        • To our knowledge this is the first attempt to develop core outcome sets to address

30        family violence and abuse.

- The study draws on diverse evidence sources and includes people with lived experience, practitioners and policy makers, as well as researchers.
- This study provides the opportunity to consider the overlap in outcomes sought across two different but related exposures,
- This study is limited by the lack of direct involvement of children and young people
- It is also beyond the means of the study to involve survivors and service providers from low- and middle-income countries (LMICs), although we will include research from LMICs in the evidence reviews and actively recruit researchers from or researching LMIC settings.

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**INTRODUCTION**

Widespread recognition that child maltreatment (CM) and domestic violence and abuse (DVA) are common and have serious and long-term adverse health consequences, [1,2] has resulted in policies and programmes to ensure that services respond to and safeguard children (and their families) at high risk of, or with experience of CM and or/DVA.[3–6] However, high quality evidence about how services can *effectively* intervene is scant. [7–9]

The value of the current evidence base is limited partly because of the variety of outcomes and measures used in evaluative studies. [7,8]. This hampers the ability to aggregate evidence pertaining to one particular type of intervention, so as to build a comprehensive picture of its effectiveness when delivered to different populations or in different contexts. Similarly it is challenging to make comparisons between different types of interventions, which purport to address the same problem within the same group of individuals [10,11].

More fundamentally, outcomes measured in CM and DVA intervention studies are often a poor or partial reflection of the concepts of success held by those that use, deliver and pay for interventions [7,8,12]. The ultimate goal of intervention studies is to identify interventions that can benefit individuals, families and communities in the future. Therefore, it is crucial that they measure outcomes reflecting the priorities and expectations of these groups so the evidence they generate is relevant to consumers. Outcomes also need to resonate with the priorities of policymakers and service providers, else effective interventions may be overlooked by those responsible for funding and/or delivery decisions, and never commissioned or implemented[13,14].

Together, these issues mean it is difficult to extract the information needed to inform real world decisions about which CM/DVA interventions to commission and scale, and which to stop funding.

One way of addressing the limitations set out above is to develop a Core Outcome Set (COS), a standardised set of outcomes that researchers, providers, service users and commissioners consider critical or important outcomes in the management of a condition or in this case, a complex public health challenge[11,15]. The COS is then measured and reported, as a minimum standard in the context of trials or other types of research and evaluation [15] and sometimes practice-based monitoring. [16] The aim is to enhance the methodological standard and utility of research in the field, by increasing consistency and reducing reporting bias (where many outcomes are measured and only favourable effects reported), and to ensure that the views of important constituencies influence the selection of outcomes to be included in the COS [10].

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The idea of the COS as a mechanism for improving evidence quality has gathered momentum over the past decade since the establishment of the COMET (Core Outcome Measures for Effectiveness Trials) initiative in 2010 ([www.comet-initiative.org](http://www.comet-initiative.org)) [15]. Whilst the number of core outcome sets being developed has increased steadily since [16,17], it is clear that in the main, studies have focused on COS development for specific health conditions, pharmacological or surgical interventions and/or discrete interventions delivered in health care settings [16,17]. In contrast there has been relatively less focus on the development of COS in relation to public health problems that require complex multi-sectoral responses often delivered to whole families, or multiple members of the same family.

## Current study

The study aims to develop two discrete core outcome sets for use in future evaluation of psycho-social interventions aimed at improving outcomes for children and families at risk of or with experience of CM or DVA. Children's experiences of CM and DVA frequently overlap [18] and experience of DVA is now often conceived of as a type of maltreatment in its own right, or a feature of emotional maltreatment. [19,20] Nevertheless, the response to these two types of trauma can be different, at least in the UK. This provides the rationale for developing separate outcome sets, however we will explore where the derived outcome sets overlap with a view to identifying outcomes that can be measured in family contexts where *both* CM and DVA occur. This is a move away from a focus on single problem areas towards recognition of the constellation of risks often experienced by children and their families.

## METHODS AND ANALYSIS

This study protocol adheres to reporting guidance for core outcome set protocols [21] and has been registered on the COMET database.

### Scope of outcome sets

The CM-COS and the DVA-COS will be developed with the aim of evaluating the impact of targeted child and/or family focussed psychosocial interventions or services in the context of both research (randomised and non-randomised studies) and practice (service evaluations and monitoring).

The target population is children aged less than 19 years of age with experience of (current or previous) DVA or CM. Given that many interventions aiming to improve child outcomes do so via support delivered to parents or multiple family members (rather than directly to the child), [7,8,22] the target group also includes parents or families of children experiencing CM or DVA.

We use a definition of Psychosocial interventions set out by the Institute of Medicine. [23]



Interventions within the scope of this study include psychotherapies (e.g. cognitive-behavioural therapy), community-based treatments, family/systemic therapy, vocational rehabilitation, peer support services, integrated care interventions, and out-of-home care (i.e. foster care or adoption). Interventions may be delivered in one or more contexts, for example clinic, school, community. Interventions may be individual, dyad or group based, or a combination, and delivered to children with or without their parents, to parents alone, to family groups, or some combination. To be in scope an intervention must implicitly or explicitly aim to improve child outcomes by one of the following mechanisms: i) reducing the risk of CM/DVA occurring/reoccurring in the family; ii) improving parental functioning; iii) limiting or preventing poor mental health, reduced wellbeing or function in children; iv) promoting children’s recovery following experience of CM or DVA – in this instance we relate to the recovery model definition which emphasises perceptions of resilience, self-identity, a sense of empowerment, hope and optimism (e.g. [24]) Universal and targeted structural interventions are not in scope.

**Study design**

The study will be undertaken in two stages (see Figure 1). The first stage will seek to identify candidate outcome areas, domains and indicators. Multiple methods will be used to identify items for the candidate list including rapid evidence reviews, consultation with key stakeholders and qualitative interviews. Data will be synthesised to produce a taxonomy of outcomes, from which the two candidate lists will be produced.

The second stage will incorporate an adapted two round eDelphi study and consensus meeting, with the aim of building agreement between different stakeholder groups regarding important outcomes. This method has been used extensively in the context of core outcomes research [16,25,26].

We will recruit three panels to ensure that each stakeholder group is equally represented in the final consensus [27]. In a further effort to ensure the views of those with lived experience remain central during this exercise, the eDelphi method will be adapted so, in addition to feedback about their individual and own panel scores for each item, professional and researcher panels will also receive feedback about the scores of the lived experience panel. This adaptation is informed by evidence that feedback of patient scores to clinicians results in an expanded set of consensus items that better reflect the priorities of patients. [28] Additional feedback will not be given to the lived experience panel, so as to minimise the possibility of perceived power differentials influencing this panel’s ratings [27]. A final face to face consensus meeting will be used to review and verify findings from the Delphi study, clarify any remaining uncertainty, and ratify the final core outcome set.

[Figure 1 about here]

## 138 Study Oversight

139 A steering committee including practitioners, policy makers and researchers representing CM and  
140 DVA will be formed and will meet formally twice a year. Three public advisory groups will also  
141 oversee and consult on the study. One group will be comprised of individuals with lived experience  
142 of DVA and one of care experienced young people. These groups will be formed in partnership with  
143 relevant survivor led organisations. A third group will be comprised of young people affiliated to the  
144 National Children's Bureau who are consulting more broadly on the work of the Children and  
145 Families Policy Research Unit. Partner organisations will be funded to organise three meetings per  
146 year and to provide appropriate remuneration to participants. Additional funds will be paid to cover  
147 scheduled review activities organised with partner agencies via email.

## 148 Participants

149 Workshops (Phase 1): We will invite 30-40 individuals to attend each workshop, the aim of which will  
150 be to discuss definitions of CM/DVA and outcomes perceived to be important for survivors. Relevant  
151 researchers (mainly UK) and professionals from each field (e.g. support workers, primary and  
152 secondary health practitioners, education staff, local authority commissioners, local and national  
153 policy makers) will be identified from the research team's networks, authorship of key publications,  
154 and internet searches.

155 People with lived experience of CM/DVA will be approached via gatekeeper organisations and  
156 existing survivor/researcher networks known to the research team. Concerted effort will be made to  
157 invite individuals representing groups known to be marginalised from services or research on  
158 DVA/CM, or who receive inadequate service responses owing to discrimination or lack of service  
159 differentiation (i.e. assuming all groups require the same response). [29–32]

160 Semi-structured interviews (Phase 1): We will recruit a sample of approximately 5 adults who  
161 identify as survivors of CM or DVA, and 5 parents of children currently aged 0-18 with lived  
162 experience of DVA/CM. In the first instance we will seek to recruit participants via gatekeeper  
163 organisations (see procedure below), although if recruitment is insufficient, we will seek approval for  
164 direct recruitment via social and print media. To take part in interviews, participants will be required  
165 to self-identify as having experienced CM/DVA, or as having a child who has experienced CM/DVA.

166 Adapted international eDelphi study (Phase 2): Three separate panels will be recruited to take part  
167 in the eDelphi study comprising: i) individuals with lived experience (parents and adults exposed to  
168 abuse in childhood); ii) frontline and strategic professionals involved in the delivery of CM/DVA  
169 services; iii) researchers. The first two panels will include members from the UK, with the researcher

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panel including international researchers from high, middle- and low-income countries. We will aim to recruit 30 individuals to each panel.

Survivors and professionals taking part in the workshops and semi-structured interviews (and who give consent for further contact) will be approached for participation in the lived experience and professional panels respectively. Key researchers, with at least one peer-reviewed publication from either the CM/DVA field, will be identified through the rapid reviews, researcher networks, participation in workshops and via the expert panel.

If needed, additional participants will be recruited through key organisations working with either CM or DVA survivors and snowball sampling. For all panels, participants must be able to read and understand English in order to participate.

Consensus workshop following eDelphi study (Phase 2): A face-to-face consensus meeting, with a purposively sampled panel (n=30) representing all key stakeholder groups, will be recruited from participants taking part in earlier phases of the study. Individuals outside of the study will be approached as needed to ensure balanced representation and inclusion of individuals of strategic importance to take up and implementation of study findings.

**Procedure**

**Phase 1**

*Rapid reviews*

We will conduct a series of rapid reviews using systematic methods (see supplementary file for protocols and review questions). We will review experimental and quasi-experimental intervention studies (international), qualitative studies containing primary accounts of experience of relevant interventions or outcomes that are sought by families experiencing CM/DVA (international), and grey (UK) literature reporting descriptions of interventions, service evaluations or consultation regarding appropriate outcomes across the DVA and CM fields.

We will search a range of relevant databases and websites under the guidance of an expert librarian. Following rapid review techniques [33,34] we will search since 2014 for intervention studies (covering the time elapsed since previous key reviews, [8,35]) and 2014/5 for the qualitative studies to build on recent qualitative reviews [36]. The grey literature review will primarily focus on searches of relevant UK organisation websites and will include any service or intervention evaluation or any

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199 consultation or review, to identify relevant outcomes or outcome tools for use in the context of  
200 service delivery or evaluation.

201 A second reviewer will screen and extract data from a minimum of 5% of titles/abstracts and articles  
202 to ensure consistency. Inter-rater reliability kappa scores will be calculated, and disagreements  
203 resolved through discussion (or a third reviewer if necessary) throughout the process. Relevant  
204 outcome indicators will be extracted, as well as their measurement instruments where possible.  
205 There will be no appraisal of study quality and outcomes will be extracted from all identified papers.

#### 206 *Stakeholder workshops*

207 We will hold two invite-only workshops (one focussed on CM and one focussed on DVA) to gather  
208 stakeholder views. The purpose of these events will be to i) explore definitional issues, specifically  
209 how each phenomenon is defined by particular groups and the function that this definition plays in  
210 practice (in terms of enabling access to services/interventions and measuring change), and ii) to  
211 explore outcomes perceived to be important indicators of benefit or harm for children and families  
212 experiencing CM/DVA.

213 Participants will be welcomed to the event and the aims of the event and the broader project  
214 discussed; participants will be reassured that all information shared in the group setting will be kept  
215 confidential. Participants will be asked to generate ideas relating to desirable (or undesirable)  
216 outcomes, unconstrained by what they believe to be measurable or achieved via currently available  
217 interventions. This will be an attempt to ensure output is not merely reflective of current practice.  
218 Designated scribes will take notes throughout the day, which will be collated and analysed  
219 thematically [37]. Participants in the workshops will be asked for permission to contact them at a  
220 later date, for the purpose of inviting them to participate in the international eDelphi study.

#### 221 *Interviews with individuals with lived experience of DVA/CM as a child or as parent of a child*

222 Participants will be identified via key gatekeeper organisations (where work with survivors of  
223 CM/DVA is core business) which are contacted for the purpose of workshop participation (see  
224 above). Participants will be approached directly by a professional from the gatekeep organisation or  
225 they will receive an open invitation circulated through the organisation's survivor network. Where  
226 participants are approached by professionals, they will be given brief information about the study  
227 and asked for permission to pass contact details to the research team. Individuals responding to an  
228 open invitation will be asked to contact a member of the research team directly. They will be  
229 assured of the anonymity in their involvement.

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3 230 Basic socio-demographic information and minimal information about experiences of CM or DVA will  
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5 231 be collected via questionnaire prior to the interview and will be used for descriptive purposes.  
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7 232 Participants will have the opportunity to take part in the interview face-to-face, by video call or by  
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9 233 phone, according to their personal preferences and public health guidance on social distancing. For  
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11 234 those participants who wish to take part but are unable to speak directly to interviewers, they will  
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13 235 be able to answer the interview questions by email. [38] Interview schedules will be used to guide  
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15 236 interviews, which will be recorded and transcribed verbatim and analysed thematically. [37]  
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17 237 *Outcome generation*  
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19 238 A list of candidate outcome areas (e.g. health and wellbeing), domains (e.g. mental health) and  
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21 239 indicators (e.g. withdrawal from friends and activities) will be generated iteratively by the research  
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23 240 team, drawing on all information sources described above. An unedited candidate list of outcome  
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25 241 indicators generated from stakeholder workshops will be used as a starting point. Identification of  
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27 242 duplicate and overlapping outcome indicators from the list will be undertaken in parallel by two  
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29 243 team members (CP, EH). Similar items will be dropped or combined to produce a reduced inventory.  
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31 244 Disagreements between team members will be resolved through discussion. All suggestions to drop  
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33 245 or combine items will be reviewed by two further research team members (RG, GF) and survivor  
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35 246 involvement groups. Similar indicators (i.e., outcomes that could be compared across studies or  
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37 247 combined in a meta-analysis [21]) will be grouped into outcome domains by two team members,  
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39 248 and reviewed by two further members of the research team and survivor involvement groups.  
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41 249 Simultaneously, a taxonomy to organise domains into outcome areas will be developed. Here we will  
42  
43 250 draw on existing practical and theoretical frameworks to categorise health outcomes, [39] as well as  
44  
45 251 the aetiology and impacts of DVA and CM [40–43] This overarching framework to describe the  
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47 252 nested structure of outcomes identified in workshops will be reviewed and refined by all members  
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49 253 of the research team, the expert advisory group, and survivor involvement groups.  
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51 254 A candidate list of outcome indicators from the rapid reviews will be generated and de-duplicated  
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53 255 (CP, EH). Four research team members and at least two survivor representatives will, in parallel,  
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55 256 attempt to categorise indicators using the developed taxonomy. Categorisations will be compared,  
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57 257 disagreements discussed, and consensus reached through discussion. New domains or areas will be  
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59 258 added where necessary. Unique indicators (not already included) will be identified from the  
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259 candidate list generated from the reviews and added to the taxonomy. This iterative process will be  
260 repeated with data yielded from interviews.  
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262 The final taxonomy and labelling of terms will be reviewed by the advisory group, and all three  
public involvement groups. Particular attention will be given to the language used to describe

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outcome domains, areas and specific indicators to ensure they are understandable, meaningful and acceptable to all stakeholder groups. Further refinement (including addition of areas, domains or indicators) will be undertaken following this review. The final step in the process will be to examine outcomes against a priori criteria designed to ensure the final CoS has maximum utility. These include: i) the extent to which the outcome indicator relates to children's feelings, function or survival, or the process of delivering services to survivors ii) whether the outcome is 'changeable' iii) and whether the outcome indicator could feasibly change as a result of a psychosocial intervention. Four members of the research team, at least two members of the expert advisory group, and four members of the survivor involvement groups (with equal representation of CM and DVA experience) will independently assess outcome indicators against the criteria listed above. Any indicators identified as not meet all criteria by one or more reviewers will be discussed and a majority decision taken to exclude or include it in the candidate list. Excluded outcomes will be reported in the final paper, along with reasons for exclusion. Where needed a glossary of terms and explanatory text will be developed to aid clarity for participants in the eDelphi study.

## Phase 2

### *Adapted international e-Delphi study*

A sequential two-round, three-panel eDelphi study will be conducted.

Round 1: A questionnaire for use in the eDelphi study will be developed using the taxonomy described above. Areas and domains will serve as headings and sub-headings to organise the survey, to encourage completion, and to allow us to explore the relative importance of indicators within the same domain. The questionnaire will be reviewed by advisory and involvement groups and refined in line with feedback. Ethical approval will be sought as an amendment to that granted for phase one of the study.

Participants will be contacted by email to remind them about the COS study and their attendance at a previous workshop (if appropriate) and to invite them to participate in the eDelphi study. A second email containing the information sheet and link to an online questionnaire will be sent 1-2 days after the initial contact. Participants will be required to indicate that they have read the information sheet and agree to take part, before proceeding to the questionnaire. The questionnaire will be administered via REDcap (<https://www.project-redcap.org>) hosted by the University College London.

Participants will be presented with a list of outcome indicators organised by area and outcome domain. They will be asked to rate each outcome presented, on a 9-point scale of importance (1=not at all important, 9=extremely important). Participants will also be given the opportunity to add any



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3 295 additional outcomes that are missing from each domain. During this round we will also collect  
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5 296 demographic data including ethnicity, age, gender, and profession and nationality where  
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7 297 appropriate. The questionnaire will remain open for 14 days and reminder emails will be sent out  
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9 298 seven and two working days before closure.

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11 299 Item level descriptive statistics will be generated for each panel including: number of respondents,  
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13 300 minimum and maximum values, measures of central tendency and dispersion. Criteria for item  
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15 301 inclusion in round 2 will be that an item is rated 7-9 (on a 9-point Likert scale) by 50% or more  
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17 302 participants in at least one panel and 1-3 by no more than 15% of participants in any stakeholder  
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19 303 group. [44]This low threshold for inclusion enables us to reduce response burden in round two by  
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21 304 dropping unimportant items (higher number of items are associated with significantly lower  
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23 305 response rates in COS Delphi surveys [45]), while also reducing the likelihood of dropping outcomes  
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25 306 that may have been rated more highly in subsequent rounds had participants been given feedback  
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27 307 on them. New items will be included if two or more panellists suggested inclusion, and the research  
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29 308 team deem it unique to existing content. [15]Panellists completing Round 1 will be invited to  
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31 309 participate in Round 2 if they rated  $\geq 75\%$  of survey items. Non-completers will not be contacted for  
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33 310 participation in round 2. We will assess attrition rates for each panel and by demographic and abuse  
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35 311 profiles.

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37 312 Round 2: An amendment to the existing approval will be sought for use of the shorter round 2  
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39 313 questionnaire. The same items will be included in questionnaires issued to each panel. Each panel  
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41 314 member will receive a personalised questionnaire reporting panel averages and their own rating for  
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43 315 each item. As noted above, professional and researcher panels will also receive feedback about the  
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45 316 ratings of the survivor panel. Panellists will be asked to rerate each of the included items, and rate  
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47 317 for the first time, any new outcomes put forward in round 1. All new outcomes suggested in round 1  
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49 318 (irrespective of the panel from which they derived) will be presented to each of the three panels.

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51 319 As before, participants will receive two reminders to complete the questionnaire, over the course of  
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53 320 14 days. Following completion of the study descriptive statistics will be computed. Items will be  
54  
55 321 deemed important to a particular stakeholder group if they are rated 7 -9 by  $\geq 70\%$  of respondents  
56  
57 322 and 1 - 3  $\leq 15\%$  by the panel. Conversely, items will be classified as unimportant to a group if  $\geq 70\%$  of  
58  
59 323 respondents rate it as 1-3 and  $\leq 15\%$  rate it as 7-9. Any items not classified as important or  
60  
324 unimportant will be deemed not to have reached consensus. Items will be considered 'core' and  
325 recommended for inclusion in the outcome set if they are rated as important by all three panels. We  
326 will assess the impact of attrition on consensus by comparing (within panels) the mean total item

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327 scores for those completing round 1 only and those completing both rounds; we will also compare  
328 the average scores for completers vs non completers by each outcome (within panel).[15]

### 329 *Consensus meeting*

330 A face-to-face consensus meeting, with a purposively sampled panel (n=30) representing all key  
331 stakeholder groups, will be held to discuss, vote and agree on the final CM- and DVA COS. The  
332 format of the meeting will follow the process set out by the James Lind Alliance (JLA) final priority  
333 setting workshops [http://www.jla.nihr.ac.uk/jla-guidebook/chapter-8/workshop-process-on-the-](http://www.jla.nihr.ac.uk/jla-guidebook/chapter-8/workshop-process-on-the-day.htm)  
334 [day.htm](http://www.jla.nihr.ac.uk/jla-guidebook/chapter-8/workshop-process-on-the-day.htm) This method is pertinent given that JLA priority setting meetings involve multiple  
335 stakeholders, discussion of interim results derived from the ranking of evidence uncertainties, and  
336 production of a 'top ten'.

337 Whilst there is no recommended maximum number of outcomes that should be included in a CoS,  
338 for it to be pragmatic we aim to arrive at a maximum of 10 outcomes. [46,47] The JLA priority setting  
339 method involves a structured process including small group and whole group discussion, ranking and  
340 reranking. The method will be adapted to include a preliminary step, where participants review  
341 those outcomes identified as important to the lived experience panel, but which didn't reach  
342 consensus across all groups. Participants will be asked to identify any outcomes that should be  
343 discussed in the workshop alongside outcomes meeting the consensus definition. This initial step is  
344 an attempt to ensure appropriate weight is given to the voice of those with lived experience of  
345 DVA/CM. During discussion, workshop participants will be asked to take into consideration the  
346 extent to which identified outcomes are 'changeable', and could be feasibly impacted by psycho-  
347 social interventions. The final CoS and also a list of all items reaching consensus will be published.

## 348 **ETHICS AND DISSEMINATION**

### 349 **Ethical approval**

350 Ethical approval was sought from the Research Ethics committee at University College London. At all  
351 stages of the study we will obtain written consent for contact information relating to potential  
352 participants to be passed via gatekeeper organisations assisting with recruitment. We will obtain  
353 written informed consent from participants in interviews and consensus meeting. Written informed  
354 consent will be obtained from participants when they opt in to participate in the eDelphi study, before  
355 they are able to proceed.

### 356 **Dissemination and implementation**



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We have registered the study on the COMET website. We will provide tailored briefings to UK policy makers, think tanks, commissioners and third sector organisations whilst the study is in progress. This will maximise interest and intention to use the core outcome sets. We will involve the leads of international scholarly networks in workshops and recruit member networks to the eDelphi study

We will disseminate our findings through peer reviewed and open access publications, the COMET website, and presentations at international conferences. We will engage with journal editors and funding agencies and the relevant Cochrane and Campbell review groups to promote awareness of the CM- and DVA-COS. We will provide briefings and links to publications to international research and policy networks, as well as those for dissemination through the networks of the VAMHN membership and CPRU collaborators, as well as the wider network of NIHR Policy Research Units, Applied Research Collaborations (ARCs) and UKRI networks. We will invite survivors who participated in workshops and in involvement groups to co-produce plain-language, service-user facing communication materials for circulation in places where survivors access support (formal or informal). We will also develop tailored briefings to enable findings to be shared with all study participants. These will be published on the CPRU website and emailed to all third sector organisations working specifically with survivors of CM and DVA, as well as local authority commissioners and CCGs.

A review of the reach and uptake of the core outcome sets will be undertaken in 2023. One of the key issues for review will be whether the core outcome set as become aligned or adopted by research and practice networks or collaborations to ensure update and sustainability.

**DISCUSSION**

Currently no published COS exists for evaluation of services and interventions to improve child outcomes following experience of CM or DVA. It is essential that outcomes measured in the context of trials and service monitoring reflect the benefits (and harms) prioritised by those who use, deliver and commission DVA and CM programmes, as well as those who research them. A COS that is developed with strong participation from people with lived experience of CM or DVA and those working to support them will help to ensure that relevant outcomes are measured in all evaluative studies. This in turn will enhance consistency across studies and the quality and value of research. Good awareness and uptake of this study’s outputs is critical to achieving its ultimate aim.

**Limitations**

The design of this study is limited by the lack of direct involvement of children and young people in either qualitative interviews or the eDelphi study. Given the study described here represents meta-

research, it was felt that potential risks to children could not be justified. Their voices are nonetheless to some extent reflected through the broad reviews of evidence and inclusion of parent perspectives. It is also beyond the means of the study to involve survivors and service providers from LMICs, although we will include research from LMICs in the evidence reviews and actively recruit researchers from or researching LMIC settings.

For peer review only

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535 **LEGEND**

536 Figure 1: Study design

537 **ACKNOWLEDGEMENTS**

538 First and foremost we thank the survivors and other members of the public who contributed to this  
539 study. Survivor involvement is facilitated by VOICES, a Survivor led charity for women who have  
540 experienced domestic abuse. We also extend our thanks to members of our advisory groups which  
541 have informed the development of the study design and have commented on drafts of this  
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543 Hodes, Dr Carol Rivas, Professor Sally Kendall, David and Elisabeth Carney Haworth and Hannah  
544 Edwards.

545 **AUTHOR CONTRIBUTIONS**

546 EH conceived of the original study design, which was refined and developed by all authors. CP  
547 developed protocols for rapid reviews, which were reviewed and refined by all authors. All study  
548 authors contributed to the writing and review of the protocol paper.

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554 **COMPETING INTERESTS**

555 We have read and understood BMJ policy on declaration of interests and declare that we have no  
556 competing interests.

557 **DATA SHARING STATEMENT**

558 Please contact the corresponding author or unit manager [cpru.data@ucl.ac.uk](mailto:cpru.data@ucl.ac.uk) with enquiries about  
559 the data used in this study.

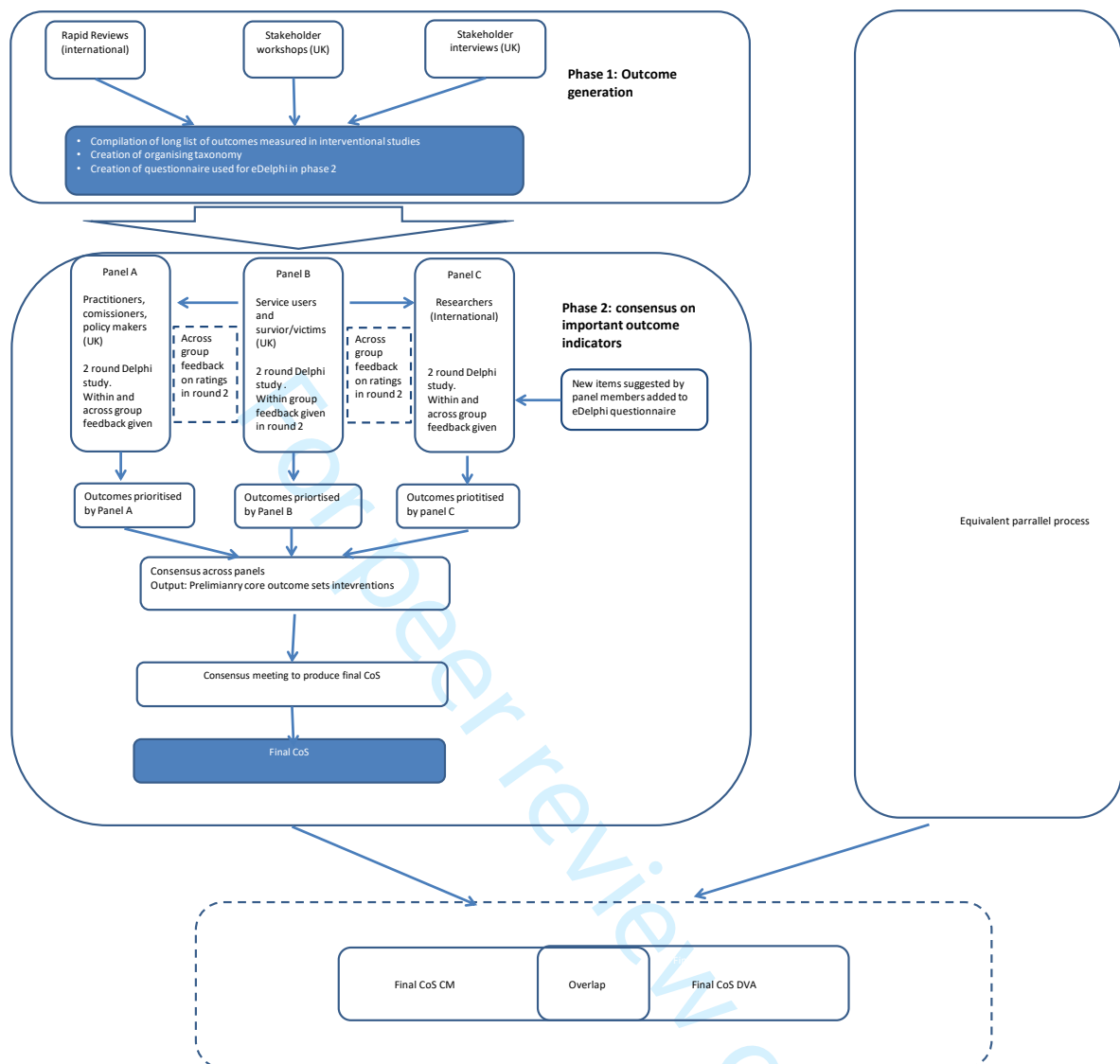
560 **SUPPLEMENTARY FILE**

561 Rapid review protocols

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Figure 1: Study design





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# Supplementary Appendices – Rapid Review Protocols

## A - Rapid review of systematic reviews of intervention studies

Review question: How are outcomes defined and measured in controlled trials of interventions aiming to improve outcomes of children and families with children exposed to DVA/CM and those aiming to reduce subsequent abusive behaviour by perpetrators of DVA/CM?

- a. This includes the definition and measurement of DVA/CM.

This rapid review will be carried out in two steps: firstly searches for systematic reviews (SR) will be carried out, then these reviews will be used to extract individual studies which will be screened for relevance. This process will be carried out in parallel for the DVA and CM literature.

**Study inclusion:** Peer-reviewed systematic reviews of controlled or quasi experimental comparator intervention studies: with or without randomisation-

The DARE criteria for SRs are at least 4 of the following: reporting of inclusion/exclusion criteria; adequate search; synthesis of included studies; quality assessment of studies; sufficient detail presented (CRD, 1995). For the purposes of this review, SRs will be included if they use an electronic database and have a structured search strategy.

- Published since 2014.
- No restrictions by country. English language only.
- Individual studies must include DVA/CM in one of the following ways:
  - Entry to the intervention is determined by experience, perpetration or identified as at risk of DVA/CM. (Identification of risk is by researchers, practitioners or participants thus we do not have a definition)
  - Subgroup analysis is carried out of participants who have experienced (or are considered to be at risk of) DVA/CM
  - DVA/CM is measured as an exposure (this could be retro or prospectively reported)

**Exclusion:** Non peer-reviewed studies, qualitative studies, general literature reviews, protocols, case reports, cross-sectional studies, general discussion papers, letters, commentaries, book chapters, conference papers, theses and dissertations.

**Population inclusion:** children or families with children at risk of experiencing, or experiencing DVA/CM'. This includes unborn children, children (aged 0 to 18 years), designated as victim or witness. For DVA any adult family members who have a parenting role (Early Intervention Foundation, 2014), whether designated as perpetrator, victim, witness or household member. For CM any adult family members who have a caring role, whether designated as maltreating parent, witness or household member. These adults and children could either be the primary study population of interest or form a subgroup in a wider study population.

**Intervention inclusion:** Any interventions or services where:

- Experience of or increased risk of experiencing DVA/CM is a criterion for being offered the service
- OR
- DVA/CM is measured as an exposure or outcome of interest
- AND
- At least one child or family-level outcome is measured. Family-level outcomes do not need to be explicitly labelled as 'family' level, we will make a judgement. However, they include any outcome that affects the family/household unit. For example, worklessness in study where at least some participants are reported to be parents would be included.
- Studies must include evaluation of a defined activity/programme and evaluation of a hypothesised effect
- Interventions may be delivered to any family member(s) as an individual or in a group. Any duration of intervention will be included. Any setting will be considered.

Exclusion: universal interventions that do not specifically target children and families at risk of DVA/CM; targeted interventions that do not measure any child or family level outcomes e.g. perpetrator programmes that focus solely on attitudinal change; DVA (only) interventions focused solely on elder abuse, sibling abuse or child perpetration of domestic violence where participants have not been identified as exposed to DVA.

**Comparator inclusion:** Any control or comparison group/period with participants receiving no care, treatment as usual or any other treatment.

**Outcome inclusion:**

- Any child outcome related to i) the child's experience of adversity ii) child functioning, including risky behaviours (see (Maclean et al., 2016) for full list of health and wellbeing outcomes).
- Any outcomes related to the quality of the caregiving environment (e.g. parenting, maternal depression, stressful life events, maternal psychological distress, parental substance misuse).
- Any outcomes related to material deprivation e.g. low income, economic hardship or stress (including perceived), social capital, hunger, food poverty, housing instability.
- Any other outcome judged to relate to children or families by the research team.
- Outcomes can be reported by professionals, child, parent or other family member and they can be retrospective or prospective.
- Outcomes can be end points, surrogate markers for end points or intermediate outcomes.
- No minimum or maximum follow-up is required.

**Context inclusion:** Studies from any country in any setting.

**Searches**

The following electronic databases will be searched from 2014: Medline, Embase, PsycInfo, Cochrane and Web of Science. Searching will include expert recommendations of relevant broader studies, including relevant parenting programmes.

The search strategy will include MeSH terms relating to DVA/CM and the BMJ systematic review strategy ((*Study Design Search Filters* / *BMJ Best Practice*, n.d.)). Key word terms for DVA/CM, abuse,

violence, family members and systematic reviews will be used. These have been developed from the two main NIHR-funded studies in the area ((Howarth et al., 2016) and (Macdonald et al., 2016)) and adapted as required for the different databases with guidance from an expert librarian.

These reviews will be carried out separately for DVA and CM. The DVA search will be run first and any CM studies that do not mention DVA will be excluded (and vice versa). As part of the review involves collecting definitions of DVA/CM, any study deemed to fit within the umbrella by the research team will be included.

**Data extraction (selection and coding)**

All systematic reviews identified by database searches will be downloaded to CADIMA (Kohl et al., 2018) and de-duplicated. Screening criteria will be tested by two reviewers on 200 titles/abstracts and interrater reliability assessed. Titles/abstracts will be screened by one reviewer for inclusion in full-text review. A second reviewer will independently review 10% of title/abstracts. If there is a high level of disagreement, the second reviewer will continue reviewing titles/abstracts until agreement is reached. Full-text systematic reviews will be screened for inclusion and a second reviewer will independently review 10% of these as above. Key data from the systematic reviews (e.g. definition of DVA/CM) will be extracted into CADIMA by one reviewer.

Individual studies will be extracted from the included full-text systematic reviews. These studies will be downloaded to Zotero and de-duplicated. The remaining studies will then be screened for inclusion in full-text review and data extraction. Data will be extracted into Access using a standardised form and a second researcher will review extraction from the first 5 papers. The following data will be extracted: bibliographic information, study design, setting, sample characteristics, definitions of DVA/CM, intervention details, primary and secondary outcomes (applicable for children and families) and their measures, descriptions of mechanisms. (Where DVA/CM is not measured as an outcome, nor is there a subgroup analysis, only exposure definition will be extracted.) Quality control/risk of bias will not be assessed because the aim of the review is solely to collect outcomes.

**Strategy for data synthesis**

Narrative synthesis and tabulation of outcomes extracted.

**B - Rapid review of qualitative studies**

Review questions:

- 1) What outcomes (benefits or harms) are sought or experienced by actual or potential recipients of interventions/services aiming to prevent or reduce the risk of harm associated with DVA/CM?
- 2) What outcomes (benefits or harms) are sought by stakeholders\* involved in developing and/or delivering interventions to children/families experiencing DVA/CM?

*\*'stakeholder' is defined as in the IMPROVE study i.e. young people with experience of DVA/CM services, parents/caregivers with experience of using DVA/CM services or professionals involved in commissioning and delivering services to families affected by DVA/CM.*

This review will be carried out in parallel for DVA and CM.

### Study inclusion:

- Primary qualitative (i.e. analysis of interviews, focus groups or other verbal analysis which is not quantified) intervention studies either as a standalone study or a discrete component of mixed-method studies.
- Direct and sufficient verbatim text from participants for analysis (i.e. more than two lines) c.f. Arai et al. (2019).
- Published since October 2015 (DVA) and July 2014 (CM) to build on Howarth et al. (2016) and Macdonald et al. (2016).
- No restrictions by country. English language only.
- Individual studies must include DVA/CM in one of the following ways:
  - Participation in the study is determined by experience, perpetration or specifically identified as at risk of DVA/CM. Participants may have received an intervention or may be discussing the impact of DVA/CM and their desired outcomes for the future. (To ensure we are not limited by outcomes defined by current interventions).
  - OR
  - Stakeholders involved in developing and/or delivering interventions to children/families experiencing DVA/CM (c.f. Howarth et al, 2016, p.52), or stakeholder discussion of outcomes that are sought either in relation to an intervention or the future in general.

Exclusion: Non peer-reviewed studies, surveys or quantitative studies with descriptive free-text only, general literature reviews, case reports, general discussion papers, letters, commentaries, editorials, book chapters, conference papers, theses and dissertations.

**Population inclusion:** Any adult or child stakeholders relevant to DVA/CM. This could be as a result of experience, perpetration, identified as at risk, delivering, commissioning or intending to deliver services.

**Phenomenon of interest:** DVA/CM

**Design:** Any qualitative approach to data collection and analysis (e.g. interviews, focus groups)

**Evaluation:** Perspectives of experienced or anticipated benefits or harms of interventions, and/or desired outcomes in general related to DVA/CM.

### Searches

The following electronic databases as advised for qualitative research (Evans, 2002; McFadden et al, 2012; Booth, 2016) will be searched from October 2015 (DVA) and July 2014 (CM): ASSIA, CINAHL, GoogleScholar (first 100 hits), PsycInfo and SSCI.

This review is building on Howarth et al. (2016) and Macdonald et al. (2016) so relevant studies from these reviews (and related work such as Arai et al. (2019)) will be included. In addition, expert recommendations of relevant qualitative studies or reviews and any qualitative studies identified from the reviews of systematic reviews will be included.

The search strategy will use the same terms for DVA/CM as the review of systematic reviews, plus additional search terms to identify qualitative research. These will be adapted as required for the different databases with guidance from an expert librarian.

These reviews will be carried out separately for DVA and CM. The DVA search will be run first and any CM studies that do not mention DVA will be excluded (and vice versa) but put aside for inclusion in the relevant review. This review will not adhere to set definitions of DVA/CM, thus any study deemed by the research team to address the phenomena of interest will be included and justified in the discussion of findings.

**Screening**

Screening of abstracts from the searches and articles included in the full text stage will be guided by questions asked in the IMPROVE study (Howarth et al., 2016):

- 1) Is this qualitative research?
- 2) Is there sufficient verbatim text? (i.e. more than 2 lines)
- 3) Does the paper discuss perspectives of experienced or anticipated benefits or harms of interventions, and/or desired outcomes in general related to DVA/CM.

All articles identified by searches will be downloaded to CADIMA (Kohl et al., 2018) and de-duplicated. Screening criteria will be tested by two reviewers on 10% titles/abstracts and interrater reliability assessed. Titles/abstracts will be screened by one reviewer for inclusion in full-text review. A second reviewer will independently review 10% of title/abstracts. If there is a high level of disagreement, the second reviewer will continue reviewing titles/abstracts until agreement is reached. Full-text systematic reviews will be screened for inclusion and a second reviewer will independently review 10% of these as above. Key details (e.g. bibliographic information, study design, setting, participants etc.) about each full-text inclusion will be recorded in Access.

**Strategy for data synthesis**

Thematic frameworks will be developed from the IMPROVE study (Howarth et al., 2016) for DVA and the parallel CM study (MacDonald et al., 2016), and input into NVivo 11 (QSR International). The frameworks will focus on barriers and harms of interventions according to parents, children and stakeholders, based on the research questions. These will be used as the basis for a framework analysis (Ritchie & Lewis, 2003) of the studies from the review (Howarth et al., 2016; Arai et al., 2019; Macdonald et al., 2016). As per Howarth et al. (2016), participant quotations and author-identified themes will be extracted rather than line by line coding. Findings will be grouped by whose view was reported and extracts from the texts will be categorised according to this framework with the aim will be to meta-aggregate the studies’ findings. Further categories will be developed where there are discrepancies or gaps in the initial framework.

The analysis and interpretation of the findings will occur at the synthesis stage in order to provide an overview of the findings, informed by the principles of meta-synthesis (c.f. Noblit & Hare, 1988), although using a lighter touch given time constraints. Two researchers will work together throughout this process to ensure consistency of categorisation and analysis. Quality will not be assessed because the aim of the review is solely to identify candidate outcomes. The ENTREQ statement (Tong et al., 2012) will be followed for the write-up.

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## C – Rapid review of grey literature

### Review questions:

- 1) How are DVA and CM defined in relevant UK service policy contexts?
- 2) How are outcomes defined: (i) in UK service-based evaluations of interventions? (ii) in relevant policy or commissioning frameworks?

This review will be carried out as a single process given the likelihood of crossover literature. Findings will be recorded as DVA or CM or both.

### Literature inclusion:

- Any national or regional policy or practice document that reports on DVA/CM-relevant services or outcomes (e.g. measurement/theory).
- Participation in the service is determined by experience, perpetration or identified as at risk of DVA/CM. (Identification of risk is by practitioners or participants thus we do not have a definition).
- Published since 2016 to build on Howarth et al. (2016) and Macdonald et al. (2016).
- England-based only. English language only.

Exclusion: Publication in academic journals, book chapters, conference papers, theses and dissertations.

**Population inclusion:** children or families with children at risk of experiencing, or experiencing DVA/CM. This includes unborn children, children (aged 0 to 18 years), designated as victim or witness. For DVA any adult family members who have a caring or parenting role (Early Intervention Foundation, 2014), whether designated as perpetrator, victim, witness or household member. For CM any adult family members who have a caring role, whether designated as perpetrator, witness or household member.

### Service inclusion: Any services where:

- Experience of or increased risk of experiencing DVA/CM is a criterion for being offered the service/intervention.
- Services/interventions may be delivered to any family member(s) as an individual or in a group. Any duration of service/intervention will be included. Any setting will be considered.

OR

- Any evaluative work or outcomes framework where at least one child or family-level outcome is evaluated/discussed. Family-level outcomes do not need to be explicitly labelled as 'family' level, we will make a judgement. However, they include any outcome that affects the family/household unit. For example, worklessness in study where at least some participants are reported to be parents would be included.

Exclusion: universal services/interventions that do not specifically target children and families at risk of DVA/CM; targeted services/interventions that do not measure any child or family level outcomes e.g. perpetrator programmes that focus solely on attitudinal change; DVA (only) services/interventions focused solely on elder abuse, sibling abuse or child perpetration of domestic violence, where participants have not been identified as exposed to DVA (i.e. perpetration of abuse by a child could feasibly be an outcome associated with exposure).



**Outcome inclusion:** Any family or child-level outcome measured or evaluated or discussed in any way. Intermediate outcomes that could feasibly represent preconditions needed to reach distal/final outcomes (including those relating to the process of service delivery) will be included, along with final/distal outcomes.

**Searches**

The following databases and websites will be searched:

Grey databases: NICE Evidence Search and Open Grey

Organisation websites including but not limited to:

DVA: Women’s Aid, Refuge, Respect, Safe Lives, Voices, AVA, Standing Together, Imkaan, The Stefanou Foundation, Women’s Trust, Hestia, DVIP, Nia, The Haven, ManKind Initiative, Everyman Project, NCDV, Galop, LAWA, IDAS, Advance, Your Sanctuary, Advocacy After Fatal Domestic Abuse (AAFDA); Aurora New Dawn; My Sister’s Place

CM: Centre of expertise on child sexual abuse, FDAC, SCIE, The Survivors’ Trust

General websites: Victim Support, Barnardos, NSPCC, Early Intervention Foundation, NatCen, RCGP, RCN, RCM, NICE, BPS, IHV, WHO, UNICEF, Working together, gov.uk (incls e.g. DA bill, ‘Working together’), Public Health for any UK nation, Office of the children’s commissioner for any UK nation, Big Lottery, Comic Relief, The Childhood Trust, UK College of Policing, Research in Practice, ‘What Works’, Joseph Rowntree Foundation, What Works for Children’s Social Care.

Websites will be searched manually for relevant documents. It is anticipated there will be an element of snowball searching as relevant organisations will have links to further organisations. Searches will be run simultaneously and then relevant reports assigned to DVA/CM or both. All websites searched will be recorded in Excel/Access along with relevant details about any reports captured. The expert reference group will be consulted about relevant websites to search or reports to include at multiple timepoints.

**Data extraction and synthesis**

As a range of types of data are anticipated, both the systematic review and the qualitative review protocols will be adapted as necessary to capture and record relevant information. It is likely that there will be non-standardised evaluation measures and interview quotations. Report identification from websites/databases will be carried out by a single researcher and the process transparently recorded. All details regarding evaluation studies and relevant outcomes will be recorded, and where necessary synthesised when the data is qualitative. Access/Excel/NVivo will be used as required to record all steps and ensure a transparent process. A second researcher will cross-check a subset of the reports and the data extracted to ensure consistency and focus on the review questions.

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# BMJ Open

## Protocol for developing Core Outcome Sets for evaluation of psychosocial interventions for children and families with experience or at risk of child maltreatment or domestic abuse

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**TITLE** Protocol for developing Core Outcome Sets for evaluation of psycho-social interventions for children and families with experience or at risk of child maltreatment or domestic abuse

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**KEY WORDS** Core outcome set; intervention; child maltreatment; domestic abuse; evaluation

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4     **ABSTRACT**

5     Introduction

6     Recognition that child maltreatment (CM) and domestic violence and abuse (DVA) are common and

7     have serious and long-term adverse health consequences, has resulted in policies and programmes

8     to ensure that services respond to and safeguard children and their families. However, high quality

9     evidence about how services can effectively intervene is scant. The value of the current evidence

10    base is limited partly because of the variety of outcomes and measures used in evaluative studies.

11    One way of addressing this limitation is to develop a Core Outcome Set (COS) which is measured and

12    reported as a minimum standard in the context of trials and other types of evaluative research. The

13    study described in this protocol aims to develop two discrete core outcome sets for use in future

14    evaluation of psycho-social interventions aimed at improving outcomes for children and families at

15    risk or with experience of i) CM or ii) DVA.

16    Methods and analysis

17    A two-phase mixed methods design: 1) rapid reviews of evidence, stakeholder workshops and semi-

18    structured interviews with adult survivors of CM/DVA and parents of children who have experienced

19    CM/DVA; 2) a three panel adapted E-Delphi study and consensus meeting. This study protocol

20    adheres to reporting guidance for COS protocols and has been registered on the COMET database.

21    Ethics and dissemination

22    We will disseminate our findings through peer reviewed and open access publications, the COMET

23    website, and presentations at international conferences. We will engage with research networks,

24    journal editors and funding agencies to promote awareness of the CM- and DVA-COS. We will work

25    with advisory and survivor and public involvement groups to co-produce a range of survivor, policy

26    and practice facing outputs.

27    Approval for this study has been granted by the Research Ethics Committee at University College

28    London.

29    **STRENGTHS AND LIMITATIONS OF THIS STUDY**

30        • To our knowledge this is the first attempt to develop core outcome sets to address

31        family violence and abuse.

- The study draws on diverse evidence sources and includes people with lived experience, practitioners and policy makers, as well as researchers.
- This study provides the opportunity to consider the overlap in outcomes sought across two different but related exposures.
- This study is limited by the lack of direct involvement of children and young people.
- It is beyond the means of the study to involve survivors and service providers from low- and middle-income countries (LMICs), although we will include research from LMICs in the evidence reviews and actively recruit researchers from or researching LMIC settings.

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43     **INTRODUCTION**

44     Widespread recognition that child maltreatment (CM) and domestic violence and abuse (DVA) are

45     common and have serious and long-term adverse health consequences, [1,2] has resulted in policies

46     and programmes to ensure that services respond to and safeguard children (and their families) at

47     high risk of, or with experience of CM and or/DVA.[3–6] However, high quality evidence about how

48     services can *effectively* intervene is scant. [7–9]

49     The value of the current evidence base is limited partly because of the variety of outcomes and

50     measures used in evaluative studies. [7,8]. This hampers the ability to aggregate evidence pertaining

51     to one particular type of intervention, so as to build a comprehensive picture of its effectiveness

52     when delivered to different populations or in different contexts. Similarly it is challenging to make

53     comparisons between different types of interventions, which purport to address the same problem

54     within the same group of individuals. [10,11]

55     More fundamentally, outcomes measured in CM and DVA intervention studies are often a poor or

56     partial reflection of the concepts of success held by those that use, deliver and pay for interventions.

57     [7,8,12] The ultimate goal of intervention studies is to identify interventions that can benefit

58     individuals, families and communities in the future. Therefore, it is crucial that they measure

59     outcomes reflecting the priorities and expectations of these groups so the evidence they generate is

60     relevant to consumers. Outcomes also need to resonate with the priorities of policymakers and

61     service providers, else effective interventions may be overlooked by those responsible for funding

62     and/or delivery decisions, and never commissioned or implemented.[13,14]

63     Together, these issues mean it is difficult to extract the information needed to inform real world

64     decisions about which CM/DVA interventions to commission and scale, and which to stop funding.

65     One way of addressing the limitations set out above is to develop a Core Outcome Set (COS), a

66     standardised set of outcomes that researchers, providers, service users, and commissioners consider

67     critical or important outcomes in the management of a condition or in this case, a complex public

68     health challenge. [11,15] The COS is then measured and reported, as a minimum standard in the

69     context of trials or other types of research and evaluation, [15] and sometimes practice-based

70     monitoring. [16] The aim is to enhance the methodological standard and utility of research in the

71     field, by increasing consistency and reducing reporting bias (where many outcomes are measured

72     and only favourable effects reported), and ensuring the views of important constituencies influence

73     the selection of outcomes to be included in the COS. [10]

The idea of the COS as a mechanism for improving evidence quality has gathered momentum over the past decade since the establishment of the COMET (Core Outcome Measures for Effectiveness Trials) initiative in 2010 ([www.comet-initiative.org](http://www.comet-initiative.org)). [15] Whilst the number of core outcome sets being developed has increased steadily since, [16,17] it is clear that in the main, studies have focused on COS development for specific health conditions, pharmacological or surgical interventions and/or discrete interventions delivered in health care settings. [16,17] In contrast there has been relatively less focus on the development of COSs in relation to public health problems that require complex multi-sectoral responses, often delivered to whole families or multiple members of the same family.

### Current study

The study sets out to develop two discrete core outcome sets for use in future evaluation of psychosocial interventions, which aim to improve outcomes for children and families at risk of or with experience of CM or DVA. We use the term 'at risk' so as not to limit the scope of this work to those interventions delivered to families following substantiated experience of CM or DVA or where children and families define their experiences as such; but to include interventions offered to families where it is suspected that an exposure may have taken place, or where children's experiences are thought to be on a trajectory towards this.

Children's experiences of CM and DVA frequently overlap [18] and experience of DVA is often conceived of as a type of maltreatment in its own right, or a feature of emotional maltreatment. [19,20] Nevertheless, the conceptualisation and response to these two types of trauma can be different, despite similar consequences. For example, there is variation as to whether exposure to DVA is considered as a form of child maltreatment. Where it is, evidence suggests there may be different levels of state intervention where the primary concern is exposure to DVA versus experience of CM. [19,20]. This provides the rationale for developing separate outcome sets, however we will explore where the derived outcome sets overlap with a view to identifying outcomes that can be measured in family contexts where *both* CM and DVA occur. This is a move away from a focus on single problem areas towards recognition of the constellation of risks often experienced by children and their families.

## METHODS AND ANALYSIS

This study protocol adheres to reporting guidance for core outcome set protocols [21] and has been registered on the COMET database.

### Scope of outcome sets

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3 105 The CM-COS and the DVA-COS will be developed to support evaluation of the impact of targeted  
4 106 child and/or family focussed psychosocial interventions or services, in the context of both research  
5 107 (randomised and non-randomised studies) and practice (service evaluations and monitoring).  
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7 108 The target population for interventions is children aged less than 19 years of age with experience of  
8 109 (current or previous) DVA or CM. Given that many interventions aiming to improve child outcomes  
9 110 do so via support delivered to parents or multiple family members (rather than directly to the child),  
10 111 [7,8,22] the target group also includes parents or families of children experiencing CM or DVA.  
11  
12 112 We use a definition of Psychosocial Interventions set out by the Institute of Medicine. [23]  
13 113 Interventions within the scope of this study include psychotherapies (e.g. cognitive-behavioural  
14 114 therapy), community-based treatments, family/systemic therapy, vocational rehabilitation, peer  
15 115 support services, integrated care interventions, and out-of-home care (i.e. foster care or adoption).  
16 116 Interventions may be delivered in one or more contexts (e.g. clinic, school, community).  
17 117 Interventions may be individual, dyad or group based, or a combination, and delivered to children  
18 118 with or without their parents, to parents alone, to family groups, or some combination. To be in  
19 119 scope an intervention must implicitly or explicitly aim to improve child outcomes by one or more of  
20 120 the following mechanisms: i) reducing the risk of CM/DVA occurring/reoccurring in the family; ii)  
21 121 improving parental (non-harming and/or harming) functioning as an indirect route to improving child  
22 122 outcomes; iii) limiting or preventing poor mental health, reduced wellbeing or function in children  
23 123 following exposure; iv) promoting children’s recovery following experience of CM or DVA – here we  
24 124 relate to the recovery model definition which emphasises perceptions of resilience, self-identity, a  
25 125 sense of empowerment, hope and optimism. (e.g. [24]) Universal and targeted structural  
26 126 interventions are not in scope.

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41 127 **Study design**

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43 128 The study is being undertaken in two stages (see Figure 1). The first stage is underway and seeks to  
44 129 identify candidate outcome areas, domains and indicators. Multiple methods are being used to  
45 130 identify items for the candidate list including rapid evidence reviews, consultation with key  
46 131 stakeholders and qualitative interviews. Data will be synthesised to produce a taxonomy of  
47 132 outcomes, from which the two candidate lists of indicators (structured by area and domain) will be  
48 133 produced.

49  
50 134 The second stage, due to begin in April 2021, will incorporate an adapted two round E-Delphi study  
51 135 and consensus meeting, with the aim of building agreement between different stakeholder groups  
52 136 regarding important outcomes. The E-Delphi technique is an iterative, multistage, online process  
53 137 designed to seek opinion from and develop consensus among a defined group of individuals (panel).

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The method is frequently used when evidence in an area is known to be limited or contradictory and is widely used in health and social care research. Key features include (1) an anonymous survey process, whereby a panel (or multiple panels) of experts (by profession and/or experience) use a questionnaire to rate a series of statements over a number of rounds; (2) the provision of structured feedback to panel members between rounds with the ability to adjust ratings in light of knowledge about the group opinion and (3) anonymity for panel members during the process.[25] These features can facilitate the convergence of opinion across rounds, helping to build consensus while at the same time highlighting areas of continuing disagreement. This method has been used extensively in the context of core outcomes research [16,26,27].

We will recruit three panels for participation in the E-Delphi study to ensure that each stakeholder group is equally represented in the final consensus. [28] In a further effort to ensure the views of those with lived experience remain a central focus during this exercise, the E-Delphi method will be adapted so that in addition to feedback about their individual and own panel scores for each item, professional and researcher panels will also receive feedback about the scores of the lived experience panel. This adaptation is informed by evidence that feedback of patient scores to clinicians results in an expanded set of consensus items that better reflect the priorities of patients. [29] Additional feedback will not be given to the lived experience panel, so as to minimise the possibility of perceived power differentials influencing this panel's ratings. [28] A final face to face consensus meeting will be used to review and verify findings from the E-Delphi study, clarify any remaining uncertainty, and ratify the final core outcome set.

[Figure 1 about here]

## Study Oversight

A steering committee including practitioners, policy makers and researchers representing CM and DVA fields has been formed and will meet formally twice a year.

## Patient and Public Involvement

Three public advisory groups are also overseeing and consulting on the study. One group is comprised of individuals with lived experience of DVA and one of care experienced young people. These groups have been formed in partnership with relevant survivor led organisations. A third group is comprised of young people affiliated to the National Children's Bureau who are consulting more broadly on the work of the Children and Families Policy Research Unit. Partner organisations are funded to organise three meetings per year and to provide appropriate remuneration to participants. Additional funds will be paid to cover scheduled review activities organised with

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3 170 partner agencies via email. Members of advisory groups will be involved in all aspects of the study  
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5 171 including the development of the outcomes taxonomy, development of the list of candidate  
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7 172 indicators, preparation of materials for the E-delphi and dissemination of results.  
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9 173 **Participants**  
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11 174 Workshops (Phase 1): We will invite 30-40 individuals to attend each workshop, the aim of which will  
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13 175 be to discuss definitions of CM/DVA and outcomes perceived to be important for survivors. Relevant  
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15 176 researchers (mainly UK) and professionals from each field (e.g. support workers, primary and  
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17 177 secondary health practitioners, education staff, local authority commissioners, local and national  
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19 178 policy makers) will be identified from the research team’s networks, authorship of key publications,  
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21 179 and internet searches.  
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23 180 People with lived experience of CM/DVA will be approached via gatekeeper organisations and  
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25 181 existing survivor/researcher networks known to the research team. Concerted effort will be made to  
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27 182 invite individuals representing groups known to be marginalised from services or research on  
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29 183 DVA/CM, or who receive inadequate service responses owing to discrimination or lack of service  
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31 184 differentiation (i.e. assuming all groups require the same response). [30–33]  
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33 185 Semi-structured interviews (Phase 1): We will recruit a sample of approximately 5 adults who  
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35 186 identify as survivors of CM or exposure to DVA during childhood, and 5 parents of children currently  
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37 187 aged 0-18 with lived experience of DVA/CM. In the first instance we will seek to recruit participants  
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39 188 via gatekeeper organisations (see procedure below), although if recruitment is insufficient, we will  
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41 189 seek approval for direct recruitment via social and print media. To take part in interviews,  
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43 190 participants will be required to self-identify as having experienced CM/DVA, or as having a child who  
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45 191 has experienced CM/DVA.  
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47 192 Adapted international E-Delphi study (Phase 2): Three separate panels will be recruited to take part  
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49 193 in the consensus study comprising: i) individuals with lived experience (parents of children with  
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51 194 experience of CM/DVA and adults experiencing abuse in childhood); ii) frontline and strategic  
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53 195 professionals involved in the delivery and commissioning of CM/DVA services and related policy; iii)  
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55 196 researchers. The first two panels will include members from the UK, with the researcher panel  
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57 197 including international researchers from high, middle- and low-income countries. We will aim to  
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59 198 recruit 30 individuals to each panel.  
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61 199 Survivors and professionals taking part in the workshops and semi-structured interviews described  
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63 200 above (and who give consent for further contact) will be approached for participation in the lived  
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65 201 experience and professional panels respectively. If needed, additional participants will be recruited

through key organisations working with either CM or DVA survivors and snowball sampling. Key researchers, with at least one peer-reviewed publication from either the CM/DVA field, will be identified through the rapid reviews, researcher networks, participation in workshops, and via the expert panel. For all panels, participants must be able to read and understand English in order to participate.

Consensus workshop following E-Delphi study (Phase 2): A face-to-face consensus meeting, with a purposively sampled panel (n=30) representing all key stakeholder groups, will be recruited from participants taking part in earlier phases of the study. Individuals outside of the study will be approached as needed to ensure balanced representation and inclusion of individuals of strategic importance to take up and implementation of study findings. Appropriate amendments to ethical approvals will be sought to accommodate this.

## Procedure

### Phase 1

#### *Rapid reviews*

We will conduct a series of rapid reviews using systematic methods (see supplementary appendices for protocols and review questions). We will review experimental and quasi-experimental intervention studies (international), qualitative studies containing primary accounts of experience of relevant interventions or outcomes that are sought by families and children experiencing CM/DVA (international), and grey (UK) literature reporting descriptions of interventions, service evaluations or consultation regarding appropriate outcomes across the DVA and CM fields.

We will search a range of relevant databases and websites under the guidance of an expert librarian. Following rapid review techniques [34,35] we will search since 2014 for intervention studies (covering the time elapsed since previous key reviews, [8,36]) and 2014/5 for the qualitative studies to build on recent qualitative reviews. [37] The grey literature review will primarily focus on searches of relevant UK organisation websites and will include any service or intervention evaluation or any consultation or review, to identify relevant candidate outcomes or outcome tools for use in the context of service delivery or evaluation.

A second reviewer will screen and extract data from a minimum of 5% of titles/abstracts and articles to ensure consistency. Inter-rater reliability kappa scores will be calculated, and disagreements resolved through discussion (or a third reviewer if necessary) throughout the process. Relevant

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3 232 outcome indicators will be extracted, as well as their measurement instruments where possible.  
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5 233 There will be no appraisal of study quality and outcomes will be extracted from all identified papers.  
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7 234 *Stakeholder workshops*  
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10 235 We will hold two invite-only workshops (one focussed on CM and one focussed on DVA) to gather  
11 236 stakeholder views. The purpose of these events will be to i) explore definitional issues, specifically  
12 237 how each phenomenon is defined by particular groups and the function that this definition plays in  
13 238 practice (in terms of enabling access to services/interventions and measuring change), and ii) to  
14 239 explore outcomes perceived to be important indicators of benefit or harm for children and families  
15 240 experiencing CM/DVA.  
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18 241 Participants will be seated on tables of 6-8. Each table will include at least two individuals with lived  
19 242 experience and one facilitator. Guided by facilitators, participants will be asked to generate ideas  
20 243 relating to desirable (or undesirable) outcomes, unconstrained by what they believe to be  
21 244 measurable or achieved via currently available interventions. This will be an attempt to ensure  
22 245 output is not merely reflective of current practice or discourse. Designated scribes will take notes  
23 246 throughout the day, which will be collated and analysed thematically. [38] Participants in the  
24 247 workshops will be asked for permission to contact them at a later date for the purpose of inviting  
25 248 them to participate in the international E-Delphi study.  
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28 249 *Interviews with individuals with lived experience of DVA/CM as a child or as parent of a child*  
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31 250 Participants will be identified via key gatekeeper organisations (where work with survivors of  
32 251 CM/DVA is core business) contacted for the purpose of workshop participation (see above).  
33 252 Participants will be approached directly by a professional from the gatekeeper organisation or they  
34 253 will receive an open invitation circulated through the organisation's survivor network. Where  
35 254 participants are approached by professionals, they will be given brief information about the study  
36 255 and asked for permission to pass contact details to the research team. Individuals responding to an  
37 256 open invitation will be asked to contact a member of the research team directly. They will be  
38 257 assured of the anonymity of their involvement.  
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41 258 Basic socio-demographic information and minimal information about experiences of CM or DVA will  
42 259 be collected via questionnaire prior to the interview and will be used for sample description.  
43 260 Participants will have the opportunity to take part in the interview face-to-face, by video call or by  
44 261 phone, according to their personal preferences and public health guidance on social distancing. For  
45 262 those participants who wish to take part but are unable to speak directly to interviewers, they will

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be able to answer the interview questions by email. [39] Interview schedules will be used to guide interviews, which will be recorded and transcribed verbatim and analysed thematically. [38]

### *Outcome generation*

A list of candidate outcome areas (e.g. health and wellbeing), domains (e.g. mental health) and specific indicators (e.g. withdrawal from friends and activities) will be generated iteratively by the research team, drawing on all information sources described above. An unedited candidate list of outcome indicators generated from stakeholder workshops will be used as a starting point. Identification of duplicate and overlapping outcome indicators from the list will be undertaken in parallel by two team members (CP, EH). Similar items will be dropped or combined to produce a reduced inventory. Disagreements between team members will be resolved through discussion. All suggestions to drop or combine items will be reviewed by two further research team members (RG, GF) and survivor involvement groups. Similar indicators (i.e., outcomes that could be compared across studies or combined in a meta-analysis [21]) will be grouped into outcome domains by two team members, and reviewed by two further members of the research team and survivor involvement groups. Simultaneously, a taxonomy to organise domains into broader outcome areas will be developed. Here we will draw on existing practical and theoretical frameworks to categorise health outcomes, [40] as well as the aetiology and impacts of DVA and CM. [41–44] This overarching framework to describe the hierarchical structure of outcomes identified in workshops will be reviewed and refined by all members of the research team, the expert advisory group, and survivor involvement groups.

A candidate list of outcome indicators from the rapid reviews will be generated and de-duplicated (CP, EH). Four research team members and at least two survivor representatives will, in parallel, attempt to categorise indicators using the developed taxonomy. Categorisations will be compared, disagreements discussed, and consensus reached through discussion. New domains or areas will be added where necessary. Unique indicators (not already included) will be identified from the candidate list generated from the reviews and added to the taxonomy. This iterative process will be repeated with data yielded from interviews.

The final taxonomy and labelling of terms will be reviewed by the advisory group, and all three public involvement groups. Particular attention will be given to the language used to describe outcome areas, domains, and specific indicators to ensure they are understandable, meaningful and acceptable to all stakeholder groups. Further refinement (including addition of areas, domains or indicators) will be undertaken following this review. The final step in the process will be to examine outcomes against a priori criteria designed to ensure the final COS has maximum utility. These

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3 296 include: i) the extent to which the outcome indicator relates to children’s feelings, function or  
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5 297 survival, or the process of delivering services to survivors ii) whether the outcome is ‘changeable’ iii)  
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7 298 and whether the outcome indicator could feasibly change as a result of a psychosocial intervention –  
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9 299 here we will draw on literature elucidating mechanisms through which exposure to violence and  
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11 300 abuse may be communicated to child outcomes. (e.g. [45]) Four members of the research team, at  
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13 301 least two members of the expert advisory group, and four members of the survivor involvement  
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15 302 groups (with equal representation of CM and DVA experience) will independently assess outcome  
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17 303 indicators against the criteria listed above. Any indicators identified as not meeting all criteria by one  
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19 304 or more reviewers will be discussed and a majority decision taken to exclude or include it in the  
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21 305 candidate list. Excluded outcomes will be reported in the final paper, along with reasons for  
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23 306 exclusion. Where needed a glossary of terms and explanatory text will be developed to aid clarity for  
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25 307 participants in the E-Delphi study.

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27 308 Phase 2

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29 309 *Adapted international -Delphi study*

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31 310 A sequential two-round, three-panel E-Delphi study will be conducted.

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33 311 Round 1: A questionnaire for use in the E- Delphi study will be developed using the taxonomy  
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35 312 described above. Areas and domains will serve as headings and sub-headings by which to organise  
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37 313 the survey, so as to encourage completion and to allow us to explore the relative importance of  
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39 314 indicators within the same domain. The questionnaire will be reviewed by advisory and involvement  
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41 315 groups and refined in line with feedback. Ethical approval will be sought as an amendment to that  
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43 316 granted for phase one of the study.

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45 317 Participants will be contacted by email to remind them about the COS study and their attendance at  
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47 318 a previous workshop (if appropriate) and to invite them to participate in the E-Delphi study. A  
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49 319 second email containing the information sheet and link to an online questionnaire will be sent one-  
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51 320 two days after the initial contact. Participants will be required to indicate that they have read the  
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53 321 information sheet and agree to take part, before proceeding to the questionnaire. The questionnaire  
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55 322 will be administered via Qualtrics (<https://www.qualtrics.com/uk/>) hosted by the University College  
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57 323 London.

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59 324 Participants will be presented with a list of outcome indicators organised by area and outcome  
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325 domain. They will be asked to rate each outcome presented, on a nice-point scale of importance  
326 (1=not at all important, 9=extremely important). Participants will also be given the opportunity to  
327 add any additional outcomes that are missing from each domain using a free text comments box.

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During this round we will also collect demographic data including ethnicity, age, gender, profession and country of professional operation. The questionnaire will remain open for 14 days and reminder emails will be sent out seven and two working days before closure.

Item level descriptive statistics will be generated for each panel and item including: number of respondents, minimum and maximum values, measures of central tendency and dispersion. Criteria for item inclusion in round two will be an item is rated seven-nine (on a 9-point Likert scale) by 50% or more participants in at least one panel and one-three by no more than 15% of participants in any stakeholder group. [46] This low threshold for inclusion enables us to reduce response burden in round two by dropping unimportant items given higher number of items are associated with significantly lower response rates in COS Delphi surveys, [47] while also reducing the likelihood of dropping outcomes that may have been rated more highly in subsequent rounds had participants been given feedback on them. New items will be included if two or more panellists suggest inclusion, and the research team deem it unique to existing content. [15] Panellists completing Round one will be invited to participate in Round two if they rated  $\geq 50\%$  of survey items. Non-completers will not be contacted for participation in round two. We will assess attrition rates for each panel and by demographic profiles.

Round two: An amendment to the existing approval will be sought for use of the shorter round two questionnaire. The same items will be included in questionnaires issued to each panel. Each panel member will receive a personalised questionnaire reporting panel averages and their own rating for each item. As noted above, professional and researcher panels will also receive feedback about the ratings of the survivor panel. Panellists will be asked to re-rate each of the included items, and rate for the first time, any new outcomes put forward in round one. All new outcomes suggested in round one (irrespective of the panel from which they derived) will be presented to each of the three panels.

As before, participants will receive two reminders to complete the questionnaire, over the course of 14 days. Following completion of the study, descriptive statistics will be computed. Items will be deemed important to a particular panel if they are rated seven -nine by  $\geq 70\%$  of respondents and one - three  $\leq 15\%$  by the panel. Conversely, items will be classified as unimportant to a group if  $\geq 70\%$  of respondents rate it as one-three and  $\leq 15\%$  rate it as seven-nine. Any items not classified as important or unimportant will be deemed not to have reached consensus. Items will be considered 'core' and recommended for inclusion in the COS if they are rated as important by all three panels. We will assess the impact of attrition on consensus by comparing (within panels) the mean total



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item scores for those completing round 1 only and those completing both rounds; we will also compare the average scores for completers vs non completers by each item (within panel).[15]

*Consensus meeting*

A face-to-face consensus meeting, with a purposively sampled panel (n=30) representing all key stakeholder groups, will be held to discuss, vote and agree on the final CM- and DVA COS. The format of the meeting will follow the process set out by the James Lind Alliance (JLA) final priority setting workshops <http://www.jla.nihr.ac.uk/jla-guidebook/chapter-8/workshop-process-on-the-day.htm> This method is pertinent given that JLA priority setting meetings involve multiple stakeholders, discussion of interim results derived from the ranking of evidence uncertainties, and production of a ‘top ten’.

Whilst there is no recommended maximum number of outcomes that should be included in a COS, for it to be pragmatic we aim to arrive at a maximum of 10 outcomes. [48,49] The JLA priority setting method involves a structured process including small group and whole group discussion, ranking and reranking. The method will be adapted to include a preliminary step, where participants review those outcomes identified as important to the lived experience panel, but which didn’t reach consensus across all groups. Participants will be asked to identify any outcomes that should be discussed in the workshop, alongside outcomes meeting the consensus definition. This initial step is an attempt to ensure appropriate weight is given to the voice of those with lived experience of DVA/CM. During discussion, workshop participants will be asked to take into consideration the extent to which identified outcomes are ‘changeable’, and could be feasibly impacted by psycho-social interventions. The final COS and also a list of all items reaching consensus will be published.

**ETHICS AND DISSEMINATION**

**Ethical approval**

Ethical approval was sought from the Research Ethics committee at University College London. At all stages of the study we will obtain written consent for contact information relating to potential participants to be passed via gatekeeper organisations assisting with recruitment. We will obtain written informed consent from participants in interviews and the consensus meeting. Online consent will be obtained from participants when they opt in to participate in the E-Delphi study, before they are able to proceed.

**Dissemination and implementation**

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We have registered the study on the COMET website. We will provide tailored briefings to UK policy makers, think tanks, commissioners and third sector organisations whilst the study is in progress as well as completed. This will maximise interest and intention to use the core outcome sets. We also intend to use these briefings as a vehicle for recruitment to the E-Delphi study. We will involve the leads of international scholarly networks in workshops and recruit member networks to the E-Delphi study

We will disseminate our findings through peer reviewed and open access publications, the COMET website, and presentations at international conferences. We will engage with journal editors and funding agencies and the relevant Cochrane and Campbell review groups to promote awareness of the CM- and DVA-COS. We will provide briefings and links to publications to international research and policy networks, for dissemination through the networks of the VAMHN membership and CPRU collaborators, as well as the wider network of NIHR Policy Research Units, Applied Research Collaborations (ARCs) and UKRI networks. We will invite survivors who participated in workshops and in involvement groups to co-produce plain-language, service-user facing communication materials for circulation in places where survivors access support (formal or informal). We will also develop tailored briefings to enable findings to be shared with all study participants; participation in this type of study is known to be a key facilitator of implementation.[15] Briefings will be published on the CPRU website and emailed to all third sector organisations working specifically with survivors of CM and DVA, as well as Local Authority commissioners and CCGs.

A high level review of the reach and uptake of the core outcome sets will be undertaken in 2023. One of the key issues for review will be whether the core outcome set has become aligned or adopted by research and practice networks or collaborations ,and recognised by funders (e.g. NIHR) and bodies co-ordinating health and social care intervention research and systematic reviews (e.g. Cochrane and Campbell Collaborations)

## DISCUSSION

Currently no published COS exists for evaluation of services and interventions to improve child outcomes following experience of CM or DVA. It is essential that outcomes measured in the context of trials and practice based research reflect the benefits (and harms) sought and prioritised by those who use, deliver and commission DVA and CM programmes, as well as those who research them. A COS that is developed with strong participation from people with lived experience of CM or DVA and those working to support them will help to ensure that relevant outcomes are measured in all evaluative studies. This in turn will enhance consistency across studies and the quality and value of

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research. High levels of awareness and uptake of this study’s outputs is critical to achieving its ultimate aim.

**Limitations**

The design of this study is limited by the lack of direct involvement of children and young people in either qualitative interviews or the E-Delphi study. Given the study described here represents meta-research, it was felt that potential risks to children could not be justified. Their voices are nonetheless to some extent reflected through the broad reviews of evidence and inclusion of parent perspectives. It is also beyond the means of the study to involve survivors and service providers from LMICs, although we will include research from LMICs in the evidence reviews and actively recruit researchers from or researching LMIC settings.

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## 579 LEGEND

580 Figure 1: Study design

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588 Edwards.

## 589 AUTHOR CONTRIBUTIONS

590 EH conceived of the original study design, which was refined and developed by EH, CP, RG, and GF,  
591 JW and EW. CP and EW led the development of the public patient involvement strategy. CP and HC  
592 developed protocols for rapid reviews, which were reviewed and refined by CP, EH, RG, JW and GF.  
593 CP undertook all searches; CP and EH performed data extraction for reviews. EH, CP, RG, JW, EW,  
594 and GF contributed to the writing and review of the protocol paper.

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are those of the author(s) and not necessarily those of the NIHR or the Department of Health and Social Care.

**COMPETING INTERESTS**

We have read and understood BMJ policy on declaration of interests and declare that we have no competing interests.

**DATA SHARING STATEMENT**

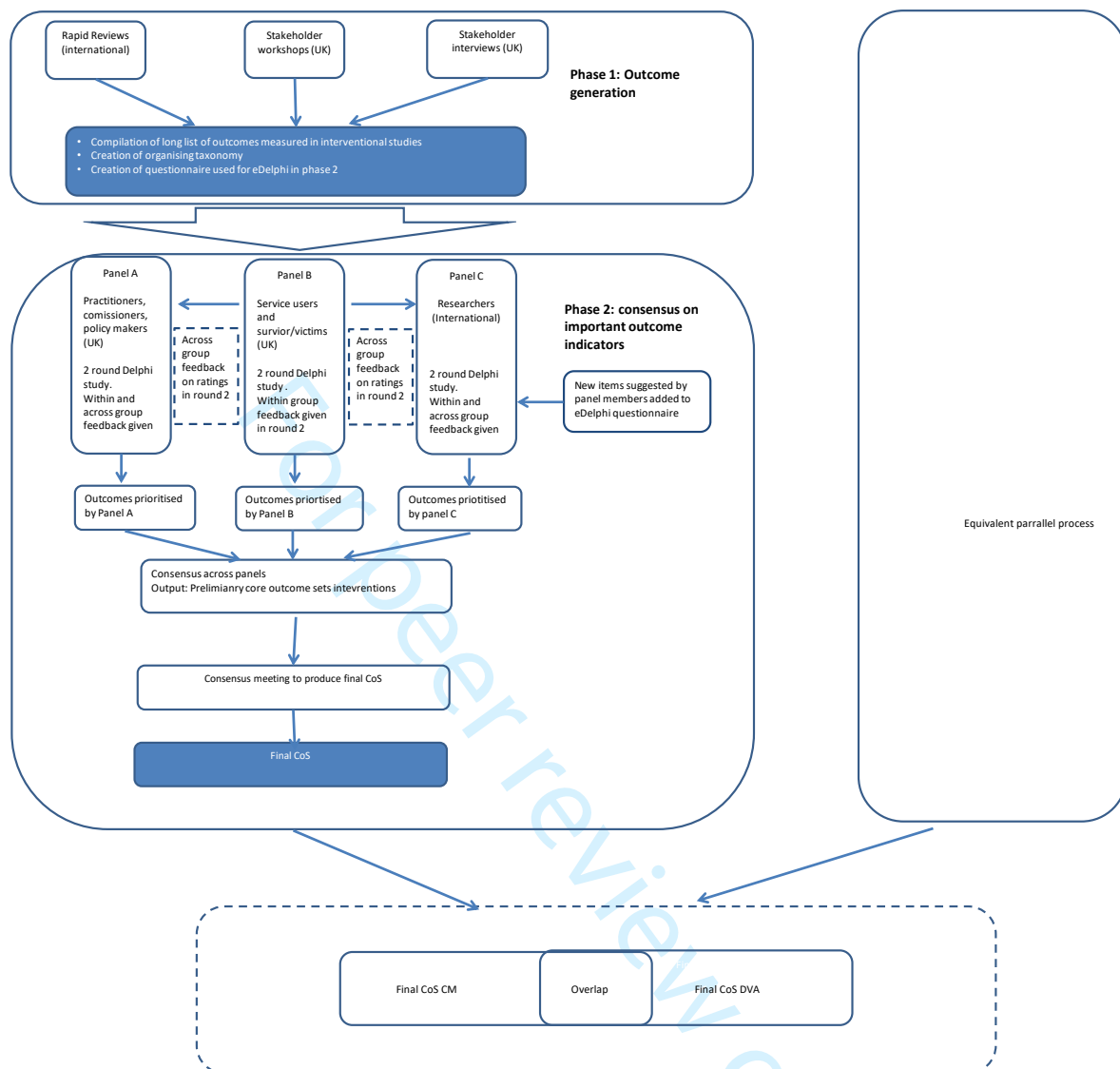
Please contact the corresponding author or unit manager [cpru.data@ucl.ac.uk](mailto:cpru.data@ucl.ac.uk) with enquiries about the data used in this study.

**SUPPLEMENTARY MATERIAL**

Rapid review protocols

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Figure 1: Study design



## Supplementary Appendices – Rapid Review Protocols

### A - Rapid review of systematic reviews of intervention studies

Review question: How are outcomes defined and measured in controlled trials of interventions aiming to improve outcomes of children and families with children exposed to DVA/CM and those aiming to reduce subsequent abusive behaviour by perpetrators of DVA/CM?

- a. This includes the definition and measurement of DVA/CM.

This rapid review will be carried out in two steps: firstly searches for systematic reviews (SR) will be carried out, then these reviews will be used to extract individual studies which will be screened for relevance. This process will be carried out in parallel for the DVA and CM literature.

**Study inclusion:** Peer-reviewed systematic reviews of controlled or quasi experimental comparator intervention studies: with or without randomisation-

The DARE criteria for SRs are at least 4 of the following: reporting of inclusion/exclusion criteria; adequate search; synthesis of included studies; quality assessment of studies; sufficient detail presented (CRD, 1995). For the purposes of this review, SRs will be included if they use an electronic database and have a structured search strategy.

- Published since 2014.
- No restrictions by country. English language only.
- Individual studies must include DVA/CM in one of the following ways:
  - Entry to the intervention is determined by experience, perpetration or identified as at risk of DVA/CM. (Identification of risk is by researchers, practitioners or participants thus we do not have a definition)
  - Subgroup analysis is carried out of participants who have experienced (or are considered to be at risk of) DVA/CM
  - DVA/CM is measured as an exposure (this could be retro or prospectively reported)

**Exclusion:** Non peer-reviewed studies, qualitative studies, general literature reviews, protocols, case reports, cross-sectional studies, general discussion papers, letters, commentaries, book chapters, conference papers, theses and dissertations.

**Population inclusion:** children or families with children at risk of experiencing, or experiencing DVA/CM'. This includes unborn children, children (aged 0 to 18 years), designated as victim or witness. For DVA any adult family members who have a parenting role (Early Intervention Foundation, 2014), whether designated as perpetrator, victim, witness or household member. For CM any adult family members who have a caring role, whether designated as maltreating parent, witness or household member. These adults and children could either be the primary study population of interest or form a subgroup in a wider study population.

**Intervention inclusion:** Any interventions or services where:

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- Experience of or increased risk of experiencing DVA/CM is a criterion for being offered the service
- OR
- DVA/CM is measured as an exposure or outcome of interest
- AND
- At least one child or family-level outcome is measured. Family-level outcomes do not need to be explicitly labelled as 'family' level, we will make a judgement. However, they include any outcome that affects the family/household unit. For example, worklessness in study where at least some participants are reported to be parents would be included.
- Studies must include evaluation of a defined activity/programme and evaluation of a hypothesised effect
- Interventions may be delivered to any family member(s) as an individual or in a group. Any duration of intervention will be included. Any setting will be considered.

Exclusion: universal interventions that do not specifically target children and families at risk of DVA/CM; targeted interventions that do not measure any child or family level outcomes e.g. perpetrator programmes that focus solely on attitudinal change; DVA (only) interventions focused solely on elder abuse, sibling abuse or child perpetration of domestic violence where participants have not been identified as exposed to DVA.

**Comparator inclusion:** Any control or comparison group/period with participants receiving no care, treatment as usual or any other treatment.

**Outcome inclusion:**

- Any child outcome related to i) the child's experience of adversity ii) child functioning, including risky behaviours (see (Maclean et al., 2016) for full list of health and wellbeing outcomes).
- Any outcomes related to the quality of the caregiving environment (e.g. parenting, maternal depression, stressful life events, maternal psychological distress, parental substance misuse).
- Any outcomes related to material deprivation e.g. low income, economic hardship or stress (including perceived), social capital, hunger, food poverty, housing instability.
- Any other outcome judged to relate to children or families by the research team.
- Outcomes can be reported by professionals, child, parent or other family member and they can be retrospective or prospective.
- Outcomes can be end points, surrogate markers for end points or intermediate outcomes.
- No minimum or maximum follow-up is required.

**Context inclusion:** Studies from any country in any setting.

**Searches**

The following electronic databases will be searched from 2014: Medline, Embase, PsycInfo, Cochrane and Web of Science. Searching will include expert recommendations of relevant broader studies, including relevant parenting programmes.

The search strategy will include MeSH terms relating to DVA/CM and the BMJ systematic review strategy ((*Study Design Search Filters* / *BMJ Best Practice*, n.d.)). Key word terms for DVA/CM, abuse,

violence, family members and systematic reviews will be used. These have been developed from the two main NIHR-funded studies in the area ((Howarth et al., 2016) and (Macdonald et al., 2016)) and adapted as required for the different databases with guidance from an expert librarian.

These reviews will be carried out separately for DVA and CM. The DVA search will be run first and any CM studies that do not mention DVA will be excluded (and vice versa). As part of the review involves collecting definitions of DVA/CM, any study deemed to fit within the umbrella by the research team will be included.

**Data extraction (selection and coding)**

All systematic reviews identified by database searches will be downloaded to CADIMA (Kohl et al., 2018) and de-duplicated. Screening criteria will be tested by two reviewers on 200 titles/abstracts and interrater reliability assessed. Titles/abstracts will be screened by one reviewer for inclusion in full-text review. A second reviewer will independently review 10% of title/abstracts. If there is a high level of disagreement, the second reviewer will continue reviewing titles/abstracts until agreement is reached. Full-text systematic reviews will be screened for inclusion and a second reviewer will independently review 10% of these as above. Key data from the systematic reviews (e.g. definition of DVA/CM) will be extracted into CADIMA by one reviewer.

Individual studies will be extracted from the included full-text systematic reviews. These studies will be downloaded to Zotero and de-duplicated. The remaining studies will then be screened for inclusion in full-text review and data extraction. Data will be extracted into Access using a standardised form and a second researcher will review extraction from the first 5 papers. The following data will be extracted: bibliographic information, study design, setting, sample characteristics, definitions of DVA/CM, intervention details, primary and secondary outcomes (applicable for children and families) and their measures, descriptions of mechanisms. (Where DVA/CM is not measured as an outcome, nor is there a subgroup analysis, only exposure definition will be extracted.) Quality control/risk of bias will not be assessed because the aim of the review is solely to collect outcomes.

**Strategy for data synthesis**

Narrative synthesis and tabulation of outcomes extracted.

**B - Rapid review of qualitative studies**

Review questions:

- 1) What outcomes (benefits or harms) are sought or experienced by actual or potential recipients of interventions/services aiming to prevent or reduce the risk of harm associated with DVA/CM?
- 2) What outcomes (benefits or harms) are sought by stakeholders\* involved in developing and/or delivering interventions to children/families experiencing DVA/CM?

*\*'stakeholder' is defined as in the IMPROVE study i.e. young people with experience of DVA/CM services, parents/caregivers with experience of using DVA/CM services or professionals involved in commissioning and delivering services to families affected by DVA/CM.*

This review will be carried out in parallel for DVA and CM.

### Study inclusion:

- Primary qualitative (i.e. analysis of interviews, focus groups or other verbal analysis which is not quantified) intervention studies either as a standalone study or a discrete component of mixed-method studies.
- Direct and sufficient verbatim text from participants for analysis (i.e. more than two lines) c.f. Arai et al. (2019).
- Published since October 2015 (DVA) and July 2014 (CM) to build on Howarth et al. (2016) and Macdonald et al. (2016).
- No restrictions by country. English language only.
- Individual studies must include DVA/CM in one of the following ways:
  - Participation in the study is determined by experience, perpetration or specifically identified as at risk of DVA/CM. Participants may have received an intervention or may be discussing the impact of DVA/CM and their desired outcomes for the future. (To ensure we are not limited by outcomes defined by current interventions).
  - OR
  - Stakeholders involved in developing and/or delivering interventions to children/families experiencing DVA/CM (c.f. Howarth et al, 2016, p.52), or stakeholder discussion of outcomes that are sought either in relation to an intervention or the future in general.

**Exclusion:** Non peer-reviewed studies, surveys or quantitative studies with descriptive free-text only, general literature reviews, case reports, general discussion papers, letters, commentaries, editorials, book chapters, conference papers, theses and dissertations.

**Population inclusion:** Any adult or child stakeholders relevant to DVA/CM. This could be as a result of experience, perpetration, identified as at risk, delivering, commissioning or intending to deliver services.

**Phenomenon of interest:** DVA/CM

**Design:** Any qualitative approach to data collection and analysis (e.g. interviews, focus groups)

**Evaluation:** Perspectives of experienced or anticipated benefits or harms of interventions, and/or desired outcomes in general related to DVA/CM.

### Searches

The following electronic databases as advised for qualitative research (Evans, 2002; McFadden et al, 2012; Booth, 2016) will be searched from October 2015 (DVA) and July 2014 (CM): ASSIA, CINAHL, GoogleScholar (first 100 hits), PsycInfo and SSCI.

This review is building on Howarth et al. (2016) and Macdonald et al. (2016) so relevant studies from these reviews (and related work such as Arai et al. (2019)) will be included. In addition, expert recommendations of relevant qualitative studies or reviews and any qualitative studies identified from the reviews of systematic reviews will be included.



The search strategy will use the same terms for DVA/CM as the review of systematic reviews, plus additional search terms to identify qualitative research. These will be adapted as required for the different databases with guidance from an expert librarian. These reviews will be carried out separately for DVA and CM. The DVA search will be run first and any CM studies that do not mention DVA will be excluded (and vice versa) but put aside for inclusion in the relevant review. This review will not adhere to set definitions of DVA/CM, thus any study deemed by the research team to address the phenomena of interest will be included and justified in the discussion of findings.

**Screening**

Screening of abstracts from the searches and articles included in the full text stage will be guided by questions asked in the IMPROVE study (Howarth et al., 2016):

- 1) Is this qualitative research?
- 2) Is there sufficient verbatim text? (i.e. more than 2 lines)
- 3) Does the paper discuss perspectives of experienced or anticipated benefits or harms of interventions, and/or desired outcomes in general related to DVA/CM.

All articles identified by searches will be downloaded to CADIMA (Kohl et al., 2018) and de-duplicated. Screening criteria will be tested by two reviewers on 10% titles/abstracts and interrater reliability assessed. Titles/abstracts will be screened by one reviewer for inclusion in full-text review. A second reviewer will independently review 10% of title/abstracts. If there is a high level of disagreement, the second reviewer will continue reviewing titles/abstracts until agreement is reached. Full-text systematic reviews will be screened for inclusion and a second reviewer will independently review 10% of these as above. Key details (e.g. bibliographic information, study design, setting, participants etc.) about each full-text inclusion will be recorded in Access.

**Strategy for data synthesis**

Thematic frameworks will be developed from the IMPROVE study (Howarth et al., 2016) for DVA and the parallel CM study (MacDonald et al., 2016), and input into NVivo 11 (QSR International). The frameworks will focus on barriers and harms of interventions according to parents, children and stakeholders, based on the research questions. These will be used as the basis for a framework analysis (Ritchie & Lewis, 2003) of the studies from the review (Howarth et al., 2016; Arai et al., 2019; Macdonald et al., 2016). As per Howarth et al. (2016), participant quotations and author-identified themes will be extracted rather than line by line coding. Findings will be grouped by whose view was reported and extracts from the texts will be categorised according to this framework with the aim will be to meta-aggregate the studies' findings. Further categories will be developed where there are discrepancies or gaps in the initial framework.

The analysis and interpretation of the findings will occur at the synthesis stage in order to provide an overview of the findings, informed by the principles of meta-synthesis (c.f. Noblit & Hare, 1988), although using a lighter touch given time constraints. Two researchers will work together throughout this process to ensure consistency of categorisation and analysis. Quality will not be assessed because the aim of the review is solely to identify candidate outcomes. The ENTREQ statement (Tong et al., 2012) will be followed for the write-up.

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## C – Rapid review of grey literature

### Review questions:

- 1) How are DVA and CM defined in relevant UK service policy contexts?
- 2) How are outcomes defined: (i) in UK service-based evaluations of interventions? (ii) in relevant policy or commissioning frameworks?

This review will be carried out as a single process given the likelihood of crossover literature. Findings will be recorded as DVA or CM or both.

### Literature inclusion:

- Any national or regional policy or practice document that reports on DVA/CM-relevant services or outcomes (e.g. measurement/theory).
- Participation in the service is determined by experience, perpetration or identified as at risk of DVA/CM. (Identification of risk is by practitioners or participants thus we do not have a definition).
- Published since 2016 to build on Howarth et al. (2016) and Macdonald et al. (2016).
- England-based only. English language only.

Exclusion: Publication in academic journals, book chapters, conference papers, theses and dissertations.

**Population inclusion:** children or families with children at risk of experiencing, or experiencing DVA/CM. This includes unborn children, children (aged 0 to 18 years), designated as victim or witness. For DVA any adult family members who have a caring or parenting role (Early Intervention Foundation, 2014), whether designated as perpetrator, victim, witness or household member. For CM any adult family members who have a caring role, whether designated as perpetrator, witness or household member.

### Service inclusion: Any services where:

- Experience of or increased risk of experiencing DVA/CM is a criterion for being offered the service/intervention.
- Services/interventions may be delivered to any family member(s) as an individual or in a group. Any duration of service/intervention will be included. Any setting will be considered.

OR

- Any evaluative work or outcomes framework where at least one child or family-level outcome is evaluated/discussed. Family-level outcomes do not need to be explicitly labelled as 'family' level, we will make a judgement. However, they include any outcome that affects the family/household unit. For example, worklessness in study where at least some participants are reported to be parents would be included.

Exclusion: universal services/interventions that do not specifically target children and families at risk of DVA/CM; targeted services/interventions that do not measure any child or family level outcomes e.g. perpetrator programmes that focus solely on attitudinal change; DVA (only) services/interventions focused solely on elder abuse, sibling abuse or child perpetration of domestic violence, where participants have not been identified as exposed to DVA (i.e. perpetration of abuse by a child could feasibly be an outcome associated with exposure).

**Outcome inclusion:** Any family or child-level outcome measured or evaluated or discussed in any way. Intermediate outcomes that could feasibly represent preconditions needed to reach distal/final outcomes (including those relating to the process of service delivery) will be included, along with final/distal outcomes.

**Searches**

The following databases and websites will be searched:

Grey databases: NICE Evidence Search and Open Grey

Organisation websites including but not limited to:

DVA: Women’s Aid, Refuge, Respect, Safe Lives, Voices, AVA, Standing Together, Imkaan, The Stefanou Foundation, Women’s Trust, Hestia, DVIP, Nia, The Haven, ManKind Initiative, Everyman Project, NCDV, Galop, LAWA, IDAS, Advance, Your Sanctuary, Advocacy After Fatal Domestic Abuse (AAFDA); Aurora New Dawn; My Sister’s Place

CM: Centre of expertise on child sexual abuse, FDAC, SCIE, The Survivors’ Trust

General websites: Victim Support, Barnardos, NSPCC, Early Intervention Foundation, NatCen, RCGP, RCN, RCM, NICE, BPS, IHV, WHO, UNICEF, Working together, gov.uk (incls e.g. DA bill, ‘Working together’), Public Health for any UK nation, Office of the children’s commissioner for any UK nation, Big Lottery, Comic Relief, The Childhood Trust, UK College of Policing, Research in Practice, ‘What Works’, Joseph Rowntree Foundation, What Works for Children’s Social Care.

Websites will be searched manually for relevant documents. It is anticipated there will be an element of snowball searching as relevant organisations will have links to further organisations. Searches will be run simultaneously and then relevant reports assigned to DVA/CM or both. All websites searched will be recorded in Excel/Access along with relevant details about any reports captured. The expert reference group will be consulted about relevant websites to search or reports to include at multiple timepoints.

**Data extraction and synthesis**

As a range of types of data are anticipated, both the systematic review and the qualitative review protocols will be adapted as necessary to capture and record relevant information. It is likely that there will be non-standardised evaluation measures and interview quotations. Report identification from websites/databases will be carried out by a single researcher and the process transparently recorded. All details regarding evaluation studies and relevant outcomes will be recorded, and where necessary synthesised when the data is qualitative. Access/Excel/NVivo will be used as required to record all steps and ensure a transparent process. A second researcher will cross-check a subset of the reports and the data extracted to ensure consistency and focus on the review questions.

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# BMJ Open

## Protocol for developing Core Outcome Sets for evaluation of psycho-social interventions for children and families with experience or at risk of child maltreatment or domestic abuse

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Keywords:	Child protection < PAEDIATRICS, Community child health < PAEDIATRICS, PUBLIC HEALTH, SOCIAL MEDICINE

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<b>TITLE</b>	<b>Protocol for developing Core Outcome Sets for evaluation of psycho-social interventions for children and families with experience or at risk of child maltreatment or domestic abuse</b>
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<b>KEY WORDS</b>	Core outcome set; intervention; child maltreatment; domestic abuse; evaluation
<b>WORD COUNT</b>	5119





- To our knowledge this is the first attempt to develop core outcome sets to address family violence and abuse.
- The study draws on diverse evidence sources and includes people with lived experience, practitioners and policy makers, as well as researchers.
- This study provides the opportunity to consider the overlap in outcomes sought across two different but related exposures.
- This study is limited by the lack of direct involvement of children and young people.
- It is beyond the means of the study to involve survivors and service providers from low- and middle-income countries (LMICs), although we will include research from LMICs in the evidence reviews and actively recruit researchers from or researching LMIC settings.

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43     **INTRODUCTION**

44     Widespread recognition that child maltreatment (CM) and domestic violence and abuse (DVA) are

45     common and have serious and long-term adverse health consequences, [1,2] has resulted in policies

46     and programmes to ensure that services respond to and safeguard children (and their families) at

47     high risk of, or with experience of CM and or/DVA.[3–6] However, high quality evidence about how

48     services can *effectively* intervene is scant. [7–9]

49     The value of the current evidence base is limited partly because of the variety of outcomes and

50     measures used in evaluative studies. [7,8]. This hampers the ability to aggregate evidence pertaining

51     to one particular type of intervention, so as to build a comprehensive picture of its effectiveness

52     when delivered to different populations or in different contexts. Similarly it is challenging to make

53     comparisons between different types of interventions, which purport to address the same problem

54     within the same group of individuals. [10,11]

55     More fundamentally, outcomes measured in CM and DVA intervention studies are often a poor or

56     partial reflection of the concepts of success held by those that use, deliver and pay for interventions.

57     [7,8,12] The ultimate goal of intervention studies is to identify interventions that can benefit

58     individuals, families and communities in the future. Therefore, it is crucial that they measure

59     outcomes reflecting the priorities and expectations of these groups so the evidence they generate is

60     relevant to consumers. Outcomes also need to resonate with the priorities of policymakers and

61     service providers, else effective interventions may be overlooked by those responsible for funding

62     and/or delivery decisions, and never commissioned or implemented.[13,14]

63     Together, these issues mean it is difficult to extract the information needed to inform real world

64     decisions about which CM/DVA interventions to commission and scale, and which to stop funding.

65     One way of addressing the limitations set out above is to develop a Core Outcome Set (COS), a

66     standardised set of outcomes that researchers, providers, service users, and commissioners consider

67     critical or important outcomes in the management of a condition or in this case, a complex public

68     health challenge. [11,15] The COS is then measured and reported, as a minimum standard in the

69     context of trials or other types of research and evaluation, [15] and sometimes practice-based

70     monitoring. [16] The aim is to enhance the methodological standard and utility of research in the

71     field, by increasing consistency and reducing reporting bias (where many outcomes are measured

72     and only favourable effects reported), and ensuring the views of important constituencies influence

73     the selection of outcomes to be included in the COS. [10]

The idea of the COS as a mechanism for improving evidence quality has gathered momentum over the past decade since the establishment of the COMET (Core Outcome Measures for Effectiveness Trials) initiative in 2010 ([www.comet-initiative.org](http://www.comet-initiative.org)). [15] Whilst the number of core outcome sets being developed has increased steadily since, [16,17] it is clear that in the main, studies have focused on COS development for specific health conditions, pharmacological or surgical interventions and/or discrete interventions delivered in health care settings. [16,17] In contrast there has been relatively less focus on the development of COSs in relation to public health problems that require complex multi-sectoral responses, often delivered to whole families or multiple members of the same family.

### Current study

The study sets out to develop two discrete core outcome sets for use in future evaluation of psychosocial interventions, which aim to improve outcomes for children and families at risk of or with experience of CM or DVA. We use the term 'at risk' so as not to limit the scope of this work to those interventions delivered to families following substantiated experience of CM or DVA or where children and families define their experiences as such; but to include interventions offered to families where it is suspected that an exposure may have taken place, or where children's experiences are thought to be on a trajectory towards this.

Children's experiences of CM and DVA frequently overlap [18] and experience of DVA is often conceived of as a type of maltreatment in its own right, or a feature of emotional maltreatment. [19,20] Nevertheless, the conceptualisation and response to these two types of trauma can be different, despite similar consequences. For example, there is variation as to whether exposure to DVA is considered as a form of child maltreatment. Where it is, evidence suggests there may be different levels of state intervention where the primary concern is exposure to DVA versus experience of CM. [19,20]. This provides the rationale for developing separate outcome sets, however we will explore where the derived outcome sets overlap with a view to identifying outcomes that can be measured in family contexts where *both* CM and DVA occur. This is a move away from a focus on single problem areas towards recognition of the constellation of risks often experienced by children and their families.

## METHODS AND ANALYSIS

This study protocol adheres to reporting guidance for core outcome set protocols [21] and has been registered on the COMET database.

### Scope of outcome sets

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3 105 The CM-COS and the DVA-COS will be developed to support evaluation of the impact of targeted  
4 106 child and/or family focussed psychosocial interventions or services, in the context of both research  
5 107 (randomised and non-randomised studies) and practice (service evaluations and monitoring).  
6  
7 108 The target population for interventions is children aged less than 19 years of age with experience of  
8 109 (current or previous) DVA or CM. Given that many interventions aiming to improve child outcomes  
9 110 do so via support delivered to parents or multiple family members (rather than directly to the child),  
10 111 [7,8,22] the target group also includes parents or families of children experiencing CM or DVA.  
11 112 We use a definition of Psychosocial Interventions set out by the Institute of Medicine. [23]  
12 113 Interventions within the scope of this study include psychotherapies (e.g. cognitive-behavioural  
13 114 therapy), community-based treatments, family/systemic therapy, vocational rehabilitation, peer  
14 115 support services, integrated care interventions, and out-of-home care (i.e. foster care or adoption).  
15 116 Interventions may be delivered in one or more contexts (e.g. clinic, school, community).  
16 117 Interventions may be individual, dyad or group based, or a combination, and delivered to children  
17 118 with or without their parents, to parents alone, to family groups, or some combination. To be in  
18 119 scope an intervention must implicitly or explicitly aim to improve child outcomes by one or more of  
19 120 the following mechanisms: i) reducing the risk of CM/DVA occurring/reoccurring in the family; ii)  
20 121 improving parental (non-harming and/or harming) functioning as an indirect route to improving child  
21 122 outcomes; iii) limiting or preventing poor mental health, reduced wellbeing or function in children  
22 123 following exposure; iv) promoting children’s recovery following experience of CM or DVA – here we  
23 124 relate to the recovery model definition which emphasises perceptions of resilience, self-identity, a  
24 125 sense of empowerment, hope and optimism. (e.g. [24]) Universal and targeted structural  
25 126 interventions are not in scope.

26  
27 127 **Study design**

28  
29 128 The study is being undertaken in two stages (see Figure 1). The first stage is underway and seeks to  
30 129 identify candidate outcome areas, domains and indicators. Multiple methods are being used to  
31 130 identify items for the candidate list including rapid evidence reviews, consultation with key  
32 131 stakeholders and qualitative interviews. Data will be synthesised to produce a taxonomy of  
33 132 outcomes, from which the two candidate lists of indicators (structured by area and domain) will be  
34 133 produced.

35 134 The second stage, due to begin in April 2021, will incorporate an adapted two round E-Delphi study  
36 135 and consensus meeting, with the aim of building agreement between different stakeholder groups  
37 136 regarding important outcomes. The E-Delphi technique is an iterative, multistage, online process  
38 137 designed to seek opinion from and develop consensus among a defined group of individuals (panel).

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The method is frequently used when evidence in an area is known to be limited or contradictory and is widely used in health and social care research. Key features include (1) an anonymous survey process, whereby a panel (or multiple panels) of experts (by profession and/or experience) use a questionnaire to rate a series of statements over a number of rounds; (2) the provision of structured feedback to panel members between rounds with the ability to adjust ratings in light of knowledge about the group opinion and (3) anonymity for panel members during the process.[25] These features can facilitate the convergence of opinion across rounds, helping to build consensus while at the same time highlighting areas of continuing disagreement. This method has been used extensively in the context of core outcomes research [16,26,27].

We will recruit three panels for participation in the E-Delphi study to ensure that each stakeholder group is equally represented in the final consensus. [28] In a further effort to ensure the views of those with lived experience remain a central focus during this exercise, the E-Delphi method will be adapted so that in addition to feedback about their individual and own panel scores for each item, professional and researcher panels will also receive feedback about the scores of the lived experience panel. This adaptation is informed by evidence that feedback of patient scores to clinicians results in an expanded set of consensus items that better reflect the priorities of patients. [29] Additional feedback will not be given to the lived experience panel, so as to minimise the possibility of perceived power differentials influencing this panel's ratings. [28] A final face to face consensus meeting will be used to review and verify findings from the E-Delphi study, clarify any remaining uncertainty, and ratify the final core outcome set.

[Figure 1 about here]

## Study Oversight

A steering committee including practitioners, policy makers and researchers representing CM and DVA fields has been formed and will meet formally twice a year.

## Patient and Public Involvement

Three public advisory groups are also overseeing and consulting on the study. One group is comprised of individuals with lived experience of DVA and one of care experienced young people. These groups have been formed in partnership with relevant survivor led organisations. A third group is comprised of young people affiliated to the National Children's Bureau who are consulting more broadly on the work of the Children and Families Policy Research Unit. Partner organisations are funded to organise three meetings per year and to provide appropriate remuneration to participants. Additional funds will be paid to cover scheduled review activities organised with

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3 170 partner agencies via email. Members of advisory groups will be involved in all aspects of the study  
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5 171 including the development of the outcomes taxonomy, development of the list of candidate  
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7 172 indicators, preparation of materials for the E-delphi and dissemination of results.  
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9 173 **Participants**  
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11 174 Workshops (Phase 1): We will invite 30-40 individuals to attend each workshop, the aim of which will  
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13 175 be to discuss definitions of CM/DVA and outcomes perceived to be important for survivors. Relevant  
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15 176 researchers (mainly UK) and professionals from each field (e.g. support workers, primary and  
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17 177 secondary health practitioners, education staff, local authority commissioners, local and national  
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19 178 policy makers) will be identified from the research team’s networks, authorship of key publications,  
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21 179 and internet searches.  
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23 180 People with lived experience of CM/DVA will be approached via gatekeeper organisations and  
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25 181 existing survivor/researcher networks known to the research team. Concerted effort will be made to  
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27 182 invite individuals representing groups known to be marginalised from services or research on  
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29 183 DVA/CM, or who receive inadequate service responses owing to discrimination or lack of service  
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31 184 differentiation (i.e. assuming all groups require the same response). [30–33]  
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33 185 Semi-structured interviews (Phase 1): We will recruit a sample of approximately 5 adults who  
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35 186 identify as survivors of CM or exposure to DVA during childhood, and 5 parents of children currently  
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37 187 aged 0-18 with lived experience of DVA/CM. In the first instance we will seek to recruit participants  
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39 188 via gatekeeper organisations (see procedure below), although if recruitment is insufficient, we will  
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41 189 seek approval for direct recruitment via social and print media. To take part in interviews,  
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43 190 participants will be required to self-identify as having experienced CM/DVA, or as having a child who  
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45 191 has experienced CM/DVA.  
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47 192 Adapted international E-Delphi study (Phase 2): Three separate panels will be recruited to take part  
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49 193 in the consensus study comprising: i) individuals with lived experience (parents of children with  
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51 194 experience of CM/DVA and adults experiencing abuse in childhood); ii) frontline and strategic  
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53 195 professionals involved in the delivery and commissioning of CM/DVA services and related policy; iii)  
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55 196 researchers. The first two panels will include members from the UK, with the researcher panel  
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57 197 including international researchers from high, middle- and low-income countries. We will aim to  
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59 198 recruit 30 individuals to each panel.  
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61 199 Survivors and professionals taking part in the workshops and semi-structured interviews described  
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63 200 above (and who give consent for further contact) will be approached for participation in the lived  
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65 201 experience and professional panels respectively. If needed, additional participants will be recruited



through key organisations working with either CM or DVA survivors and snowball sampling. Key researchers, with at least one peer-reviewed publication from either the CM/DVA field, will be identified through the rapid reviews, researcher networks, participation in workshops, and via the expert panel. For all panels, participants must be able to read and understand English in order to participate.

Consensus workshop following E-Delphi study (Phase 2): A face-to-face consensus meeting, with a purposively sampled panel (n=30) representing all key stakeholder groups, will be recruited from participants taking part in earlier phases of the study. Individuals outside of the study will be approached as needed to ensure balanced representation and inclusion of individuals of strategic importance to take up and implementation of study findings. Appropriate amendments to ethical approvals will be sought to accommodate this.

It is important to note that although the focus of this work is on child and family targeted interventions, this study does not directly involve children and young people aged <18 years with experience of child maltreatment and/or domestic violence and abuse. We initially explored this possibility with third sector organisations and professionals and clinicians comprising our expert advisory group. However, it was concluded that the nature of this research was not sufficient to justify the potential harm and safeguarding issues that may have been raised by approaching children and young people with recent experience of violence and abuse, particularly as they may not be engaged with supportive services. Instead the voices of children and young people have been included indirectly via i) inclusion of outcomes extracted from qualitative studies reporting children and young people's experiences, ii) recruitment of adult survivors of CM and childhood exposure to DVA as well as parents of children with recent experience, iii) and via consultation with care experienced young people who are advising on the conduct of the study, including review of outcomes identified in the first phase of this work. Nevertheless, the lack of children and young people's direct participation is a limitation to this work, that will be transparently addressed at all stages of reporting.

## Procedure

### Phase 1

#### *Rapid reviews*

We will conduct a series of rapid reviews using systematic methods (see supplementary appendices for protocols and review questions). We will review experimental and quasi-experimental

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3 233 intervention studies (international), qualitative studies containing primary accounts of experience of  
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5 234 relevant interventions or outcomes that are sought by families and children experiencing CM/DVA  
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7 235 (international), and grey (UK) literature reporting descriptions of interventions, service evaluations  
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9 236 or consultation regarding appropriate outcomes across the DVA and CM fields.

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11 237 We will search a range of relevant databases and websites under the guidance of an expert librarian.  
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13 238 Following rapid review techniques [34,35] we will search since 2014 for intervention studies  
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15 239 (covering the time elapsed since previous key reviews, [8,36]) and 2014/5 for the qualitative studies  
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17 240 to build on recent qualitative reviews. [37] The grey literature review will primarily focus on searches  
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19 241 of relevant UK organisation websites and will include any service or intervention evaluation or any  
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21 242 consultation or review, to identify relevant candidate outcomes or outcome tools for use in the  
22  
23 243 context of service delivery or evaluation.

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25 244 A second reviewer will screen and extract data from a minimum of 5% of titles/abstracts and articles  
26  
27 245 to ensure consistency. Inter-rater reliability kappa scores will be calculated, and disagreements  
28  
29 246 resolved through discussion (or a third reviewer if necessary) throughout the process. Relevant  
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31 247 outcome indicators will be extracted, as well as their measurement instruments where possible.  
32  
33 248 There will be no appraisal of study quality and outcomes will be extracted from all identified papers.

34  
35 249 *Stakeholder workshops*

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37 250 We will hold two invite-only workshops (one focussed on CM and one focussed on DVA) to gather  
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39 251 stakeholder views. The purpose of these events will be to i) explore definitional issues, specifically  
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41 252 how each phenomenon is defined by particular groups and the function that this definition plays in  
42  
43 253 practice (in terms of enabling access to services/interventions and measuring change), and ii) to  
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45 254 explore outcomes perceived to be important indicators of benefit or harm for children and families  
46  
47 255 experiencing CM/DVA.

48  
49 256 Participants will be seated on tables of 6-8. Each table will include at least two individuals with lived  
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51 257 experience and one facilitator. Guided by facilitators, participants will be asked to generate ideas  
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53 258 relating to desirable (or undesirable) outcomes, unconstrained by what they believe to be  
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55 259 measurable or achieved via currently available interventions. This will be an attempt to ensure  
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57 260 output is not merely reflective of current practice or discourse. Designated scribes will take notes  
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59 261 throughout the day, which will be collated and analysed thematically. [38] Participants in the  
60  
262 workshops will be asked for permission to contact them at a later date for the purpose of inviting  
263 them to participate in the international E-Delphi study.

264 *Interviews with individuals with lived experience of DVA/CM as a child or as parent of a child*

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Participants will be identified via key gatekeeper organisations (where work with survivors of CM/DVA is core business) contacted for the purpose of workshop participation (see above). Participants will be approached directly by a professional from the gatekeeper organisation or they will receive an open invitation circulated through the organisation's survivor network. Where participants are approached by professionals, they will be given brief information about the study and asked for permission to pass contact details to the research team. Individuals responding to an open invitation will be asked to contact a member of the research team directly. They will be assured of the anonymity of their involvement.

Basic socio-demographic information and minimal information about experiences of CM or DVA will be collected via questionnaire prior to the interview and will be used for sample description. Participants will have the opportunity to take part in the interview face-to-face, by video call or by phone, according to their personal preferences and public health guidance on social distancing. For those participants who wish to take part but are unable to speak directly to interviewers, they will be able to answer the interview questions by email. [39] Interview schedules will be used to guide interviews, which will be recorded and transcribed verbatim and analysed thematically. [38]

#### *Outcome generation*

A list of candidate outcome areas (e.g. health and wellbeing), domains (e.g. mental health) and specific indicators (e.g. withdrawal from friends and activities) will be generated iteratively by the research team, drawing on all information sources described above. An unedited candidate list of outcome indicators generated from stakeholder workshops will be used as a starting point. Identification of duplicate and overlapping outcome indicators from the list will be undertaken in parallel by two team members (CP, EH). Similar items will be dropped or combined to produce a reduced inventory. Disagreements between team members will be resolved through discussion. All suggestions to drop or combine items will be reviewed by two further research team members (RG, GF) and survivor involvement groups. Similar indicators (i.e., outcomes that could be compared across studies or combined in a meta-analysis [21]) will be grouped into outcome domains by two team members, and reviewed by two further members of the research team and survivor involvement groups. Simultaneously, a taxonomy to organise domains into broader outcome areas will be developed. Here we will draw on existing practical and theoretical frameworks to categorise health outcomes, [40] as well as the aetiology and impacts of DVA and CM. [41–44] This overarching framework to describe the hierarchical structure of outcomes identified in workshops will be reviewed and refined by all members of the research team, the expert advisory group, and survivor involvement groups.

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3 298 A candidate list of outcome indicators from the rapid reviews will be generated and de-duplicated  
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5 299 (CP, EH). Four research team members and at least two survivor representatives will, in parallel,  
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7 300 attempt to categorise indicators using the developed taxonomy. Categorisations will be compared,  
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9 301 disagreements discussed, and consensus reached through discussion. New domains or areas will be  
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11 302 added where necessary. Unique indicators (not already included) will be identified from the  
12  
13 303 candidate list generated from the reviews and added to the taxonomy. This iterative process will be  
14  
15 304 repeated with data yielded from interviews.  
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17 305 The final taxonomy and labelling of terms will be reviewed by the advisory group, and all three  
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19 306 public involvement groups. Particular attention will be given to the language used to describe  
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21 307 outcome areas, domains, and specific indicators to ensure they are understandable, meaningful and  
22  
23 308 acceptable to all stakeholder groups. Further refinement (including addition of areas, domains or  
24  
25 309 indicators) will be undertaken following this review. The final step in the process will be to examine  
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27 310 outcomes against a priori criteria designed to ensure the final COS has maximum utility. These  
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29 311 include: i) the extent to which the outcome indicator relates to children’s feelings, function or  
30  
31 312 survival, or the process of delivering services to survivors ii) whether the outcome is ‘changeable’ iii)  
32  
33 313 and whether the outcome indicator could feasibly change as a result of a psychosocial intervention –  
34  
35 314 here we will draw on literature elucidating mechanisms through which exposure to violence and  
36  
37 315 abuse may be communicated to child outcomes. (e.g. [45]) Four members of the research team, at  
38  
39 316 least two members of the expert advisory group, and four members of the survivor involvement  
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41 317 groups (with equal representation of CM and DVA experience) will independently assess outcome  
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43 318 indicators against the criteria listed above. Any indicators identified as not meeting all criteria by one  
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45 319 or more reviewers will be discussed and a majority decision taken to exclude or include it in the  
46  
47 320 candidate list. Excluded outcomes will be reported in the final paper, along with reasons for  
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49 321 exclusion. Where needed a glossary of terms and explanatory text will be developed to aid clarity for  
50  
51 322 participants in the E-Delphi study.  
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53 323 Phase 2  
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55 324 *Adapted international -Delphi study*  
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57 325 A sequential two-round, three-panel E-Delphi study will be conducted.  
58  
59 326 Round 1: A questionnaire for use in the E- Delphi study will be developed using the taxonomy  
60  
327 described above. Areas and domains will serve as headings and sub-headings by which to organise  
328 the survey, so as to encourage completion and to allow us to explore the relative importance of  
329 indicators within the same domain. The questionnaire will be reviewed by advisory and involvement

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groups and refined in line with feedback. Ethical approval will be sought as an amendment to that granted for phase one of the study.

Participants will be contacted by email to remind them about the COS study and their attendance at a previous workshop (if appropriate) and to invite them to participate in the E-Delphi study. A second email containing the information sheet and link to an online questionnaire will be sent one-two days after the initial contact. Participants will be required to indicate that they have read the information sheet and agree to take part, before proceeding to the questionnaire. The questionnaire will be administered via Qualtrics (<https://www.qualtrics.com/uk/>) hosted by the University College London.

Participants will be presented with a list of outcome indicators organised by area and outcome domain. They will be asked to rate each outcome presented, on a nine-point scale of importance (1=not at all important, 9=extremely important). Participants will also be given the opportunity to add any additional outcomes that are missing from each domain using a free text comments box. During this round we will also collect demographic data including ethnicity, age, gender, profession and country of professional operation. The questionnaire will remain open for 14 days and reminder emails will be sent out seven and two working days before closure.

Item level descriptive statistics will be generated for each panel and item including: number of respondents, minimum and maximum values, measures of central tendency and dispersion. Criteria for item inclusion in round two will be an item is rated seven-nine (on a 9-point Likert scale) by 50% or more participants in at least one panel and one-three by no more than 15% of participants in any stakeholder group. [46] This low threshold for inclusion enables us to reduce response burden in round two by dropping unimportant items given higher number of items are associated with significantly lower response rates in COS Delphi surveys, [47] while also reducing the likelihood of dropping outcomes that may have been rated more highly in subsequent rounds had participants been given feedback on them. New items will be included if two or more panellists suggest inclusion, and the research team deem it unique to existing content. [15] Panellists completing Round one will be invited to participate in Round two if they rated  $\geq 50\%$  of survey items. Non-completers will not be contacted for participation in round two. We will assess attrition rates for each panel and by demographic profiles.

Round two: An amendment to the existing approval will be sought for use of the shorter round two questionnaire. The same items will be included in questionnaires issued to each panel. Each panel member will receive a personalised questionnaire reporting panel averages and their own rating for each item. As noted above, professional and researcher panels will also receive feedback about the

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2  
3 363 ratings of the survivor panel. Panellists will be asked to re-rate each of the included items, and rate  
4 364 for the first time, any new outcomes put forward in round one. All new outcomes suggested in  
5 365 round one (irrespective of the panel from which they derived) will be presented to each of the three  
6 366 panels.  
7  
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9  
10 367 As before, participants will receive two reminders to complete the questionnaire, over the course of  
11 368 14 days. Following completion of the study, descriptive statistics will be computed. Items will be  
12 369 deemed important to a particular panel if they are rated seven -nine by  $\geq 70\%$  of respondents and  
13 370 one - three  $\leq 15\%$  by the panel. Conversely, items will be classified as unimportant to a group if  $\geq 70\%$   
14 371 of respondents rate it as one-three and  $\leq 15\%$  rate it as seven-nine. Any items not classified as  
15 372 important or unimportant will be deemed not to have reached consensus. Items will be considered  
16 373 'core' and recommended for inclusion in the COS if they are rated as important by all three panels.  
17 374 We will assess the impact of attrition on consensus by comparing (within panels) the mean total  
18 375 item scores for those completing round 1 only and those completing both rounds; we will also  
19 376 compare the average scores for completers vs non completers by each item (within panel).[15]  
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28 377 *Consensus meeting*  
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31 378 A face-to-face consensus meeting, with a purposively sampled panel (n=30) representing all key  
32 379 stakeholder groups, will be held to discuss, vote and agree on the final CM- and DVA COS. The  
33 380 format of the meeting will follow the process set out by the James Lind Alliance (JLA) final priority  
34 381 setting workshops [http://www.jla.nihr.ac.uk/jla-guidebook/chapter-8/workshop-process-on-the-](http://www.jla.nihr.ac.uk/jla-guidebook/chapter-8/workshop-process-on-the-day.htm)  
35 382 [day.htm](http://www.jla.nihr.ac.uk/jla-guidebook/chapter-8/workshop-process-on-the-day.htm) This method is pertinent given that JLA priority setting meetings involve multiple  
36 383 stakeholders, discussion of interim results derived from the ranking of evidence uncertainties, and  
37 384 production of a 'top ten'.  
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43 385 Whilst there is no recommended maximum number of outcomes that should be included in a COS,  
44 386 for it to be pragmatic we aim to arrive at a maximum of 10 outcomes. [48,49] The JLA priority setting  
45 387 method involves a structured process including small group and whole group discussion, ranking and  
46 388 reranking. The method will be adapted to include a preliminary step, where participants review  
47 389 those outcomes identified as important to the lived experience panel, but which didn't reach  
48 390 consensus across all groups. Participants will be asked to identify any outcomes that should be  
49 391 discussed in the workshop, alongside outcomes meeting the consensus definition. This initial step is  
50 392 an attempt to ensure appropriate weight is given to the voice of those with lived experience of  
51 393 DVA/CM. During discussion, workshop participants will be asked to take into consideration the  
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extent to which identified outcomes are 'changeable', and could be feasibly impacted by psycho-social interventions. The final COS and also a list of all items reaching consensus will be published.

## **ETHICS AND DISSEMINATION**

### **Ethical approval**

Ethical approval was sought from the Research Ethics committee at University College London. At all stages of the study we will obtain written consent for contact information relating to potential participants to be passed via gatekeeper organisations assisting with recruitment. We will obtain written informed consent from participants in interviews and the consensus meeting. Online consent will be obtained from participants when they opt in to participate in the E-Delphi study, before they are able to proceed.

### **Dissemination and implementation**

We have registered the study on the COMET website. We will provide tailored briefings to UK policy makers, think tanks, commissioners and third sector organisations whilst the study is in progress as well as completed. This will maximise interest and intention to use the core outcome sets. We also intend to use these briefings as a vehicle for recruitment to the E-Delphi study. We will involve the leads of international scholarly networks in workshops and recruit member networks to the E-Delphi study

We will disseminate our findings through peer reviewed and open access publications, the COMET website, and presentations at international conferences. We will engage with journal editors and funding agencies and the relevant Cochrane and Campbell review groups to promote awareness of the CM- and DVA-COS. We will provide briefings and links to publications to international research and policy networks, for dissemination through the networks of the VAMHN membership and CPRU collaborators, as well as the wider network of NIHR Policy Research Units, Applied Research Collaborations (ARCs) and UKRI networks. We will invite survivors who participated in workshops and in involvement groups to co-produce plain-language, service-user facing communication materials for circulation in places where survivors access support (formal or informal). We will also develop tailored briefings to enable findings to be shared with all study participants; participation in this type of study is known to be a key facilitator of implementation.[15] Briefings will be published on the CPRU website and emailed to all third sector organisations working specifically with survivors of CM and DVA, as well as Local Authority commissioners and CCGs.



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3 424 A high level review of the reach and uptake of the core outcome sets will be undertaken in 2023. One  
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5 425 of the key issues for review will be whether the core outcome set has become aligned or adopted by  
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7 426 research and practice networks or collaborations ,and recognised by funders (e.g. NIHR) and bodies  
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9 427 co-ordinating health and social care intervention research and systematic reviews (e.g. Cochrane and  
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11 428 Campbell Collaborations)

12 429 **DISCUSSION**

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14 430 Currently no published COS exists for evaluation of services and interventions to improve child  
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16 431 outcomes following experience of CM or DVA. It is essential that outcomes measured in the context  
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18 432 of trials and practice based research reflect the benefits (and harms) sought and prioritised by those  
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20 433 who use, deliver and commission DVA and CM programmes, as well as those who research them. A  
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22 434 COS that is developed with strong participation from people with lived experience of CM or DVA and  
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24 435 those working to support them will help to ensure that relevant outcomes are measured in all  
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26 436 evaluative studies. This in turn will enhance consistency across studies and the quality and value of  
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28 437 research. High levels of awareness and uptake of this study’s outputs is critical to achieving its  
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30 438 ultimate aim.

31 439 **Limitations**

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33 440 The design of this study is limited by the lack of direct involvement of children and young people in  
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35 441 either qualitative interviews or the E-Delphi study. Given the study described here represents meta-  
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37 442 research, it was felt that potential risks to children could not be justified. Their voices are  
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39 443 nonetheless to some extent reflected through the broad reviews of evidence and inclusion of parent  
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41 444 perspectives. It is also beyond the means of the study to involve survivors and service providers  
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43 445 from LMICs, although we will include research from LMICs in the evidence reviews and actively  
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45 446 recruit researchers from or researching LMIC settings.

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## 594 LEGEND

595 Figure 1: Study design

## 596 ACKNOWLEDGEMENTS

597 First and foremost we thank the survivors and other members of the public who contributed to this study. Survivor involvement is facilitated by VOICES, a Survivor led charity for women who have experienced domestic abuse. We also extend our thanks to members of our advisory groups which

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have informed the development of the study design and have commented on drafts of this manuscript. Members of the professional advisory group are as follows: Elaine Fulton, Dr Deborah Hodes, Dr Carol Rivas, Professor Sally Kendall, David and Elisabeth Carney Haworth and Hannah Edwards.

**AUTHOR CONTRIBUTIONS**

EH conceived of the original study design, which was refined and developed by EH, CP, RG, and GF, JW, ES and EW. CP and EW led the development of the public patient involvement strategy. CP and HC developed protocols for rapid reviews, which were reviewed and refined by CP, EH, RG, JW and GF. CP undertook all searches; CP and EH performed data extraction for reviews. EH, CP, RG, JW, EW, ES, and GF contributed to the writing and review of the protocol paper.

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**COMPETING INTERESTS**

We have read and understood BMJ policy on declaration of interests and declare that we have no competing interests.

**DATA SHARING STATEMENT**

Please contact the corresponding author or unit manager [cpru.data@ucl.ac.uk](mailto:cpru.data@ucl.ac.uk) with enquiries about the data used in this study.

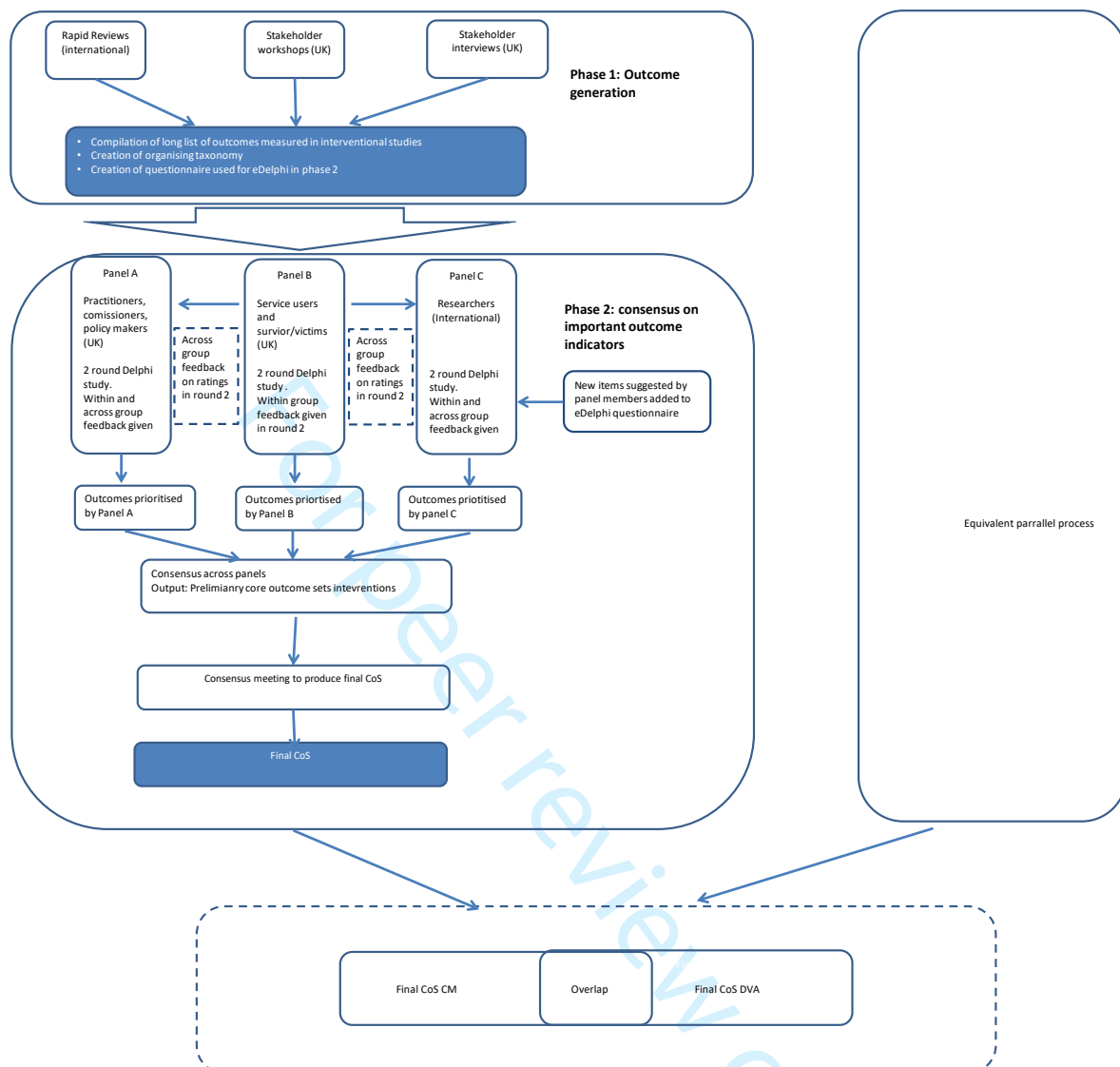
**SUPPLEMENTARY MATERIAL**

Rapid review protocols

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Figure 1: Study design



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## Supplementary Appendices – Rapid Review Protocols

### A - Rapid review of systematic reviews of intervention studies

Review question: How are outcomes defined and measured in controlled trials of interventions aiming to improve outcomes of children and families with children exposed to DVA/CM and those aiming to reduce subsequent abusive behaviour by perpetrators of DVA/CM?

- a. This includes the definition and measurement of DVA/CM.

This rapid review will be carried out in two steps: firstly searches for systematic reviews (SR) will be carried out, then these reviews will be used to extract individual studies which will be screened for relevance. This process will be carried out in parallel for the DVA and CM literature.

**Study inclusion:** Peer-reviewed systematic reviews of controlled or quasi experimental comparator intervention studies: with or without randomisation-

The DARE criteria for SRs are at least 4 of the following: reporting of inclusion/exclusion criteria; adequate search; synthesis of included studies; quality assessment of studies; sufficient detail presented (CRD, 1995). For the purposes of this review, SRs will be included if they use an electronic database and have a structured search strategy.

- Published since 2014.
- No restrictions by country. English language only.
- Individual studies must include DVA/CM in one of the following ways:
  - Entry to the intervention is determined by experience, perpetration or identified as at risk of DVA/CM. (Identification of risk is by researchers, practitioners or participants thus we do not have a definition)
  - Subgroup analysis is carried out of participants who have experienced (or are considered to be at risk of) DVA/CM
  - DVA/CM is measured as an exposure (this could be retro or prospectively reported)

**Exclusion:** Non peer-reviewed studies, qualitative studies, general literature reviews, protocols, case reports, cross-sectional studies, general discussion papers, letters, commentaries, book chapters, conference papers, theses and dissertations.

**Population inclusion:** children or families with children at risk of experiencing, or experiencing DVA/CM'. This includes unborn children, children (aged 0 to 18 years), designated as victim or witness. For DVA any adult family members who have a parenting role (Early Intervention Foundation, 2014), whether designated as perpetrator, victim, witness or household member. For CM any adult family members who have a caring role, whether designated as maltreating parent, witness or household member. These adults and children could either be the primary study population of interest or form a subgroup in a wider study population.

**Intervention inclusion:** Any interventions or services where:

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- Experience of or increased risk of experiencing DVA/CM is a criterion for being offered the service
- OR
- DVA/CM is measured as an exposure or outcome of interest
- AND
- At least one child or family-level outcome is measured. Family-level outcomes do not need to be explicitly labelled as 'family' level, we will make a judgement. However, they include any outcome that affects the family/household unit. For example, worklessness in study where at least some participants are reported to be parents would be included.
- Studies must include evaluation of a defined activity/programme and evaluation of a hypothesised effect
- Interventions may be delivered to any family member(s) as an individual or in a group. Any duration of intervention will be included. Any setting will be considered.

Exclusion: universal interventions that do not specifically target children and families at risk of DVA/CM; targeted interventions that do not measure any child or family level outcomes e.g. perpetrator programmes that focus solely on attitudinal change; DVA (only) interventions focused solely on elder abuse, sibling abuse or child perpetration of domestic violence where participants have not been identified as exposed to DVA.

**Comparator inclusion:** Any control or comparison group/period with participants receiving no care, treatment as usual or any other treatment.

**Outcome inclusion:**

- Any child outcome related to i) the child's experience of adversity ii) child functioning, including risky behaviours (see (Maclean et al., 2016) for full list of health and wellbeing outcomes).
- Any outcomes related to the quality of the caregiving environment (e.g. parenting, maternal depression, stressful life events, maternal psychological distress, parental substance misuse).
- Any outcomes related to material deprivation e.g. low income, economic hardship or stress (including perceived), social capital, hunger, food poverty, housing instability.
- Any other outcome judged to relate to children or families by the research team.
- Outcomes can be reported by professionals, child, parent or other family member and they can be retrospective or prospective.
- Outcomes can be end points, surrogate markers for end points or intermediate outcomes.
- No minimum or maximum follow-up is required.

**Context inclusion:** Studies from any country in any setting.

**Searches**

The following electronic databases will be searched from 2014: Medline, Embase, PsycInfo, Cochrane and Web of Science. Searching will include expert recommendations of relevant broader studies, including relevant parenting programmes.

The search strategy will include MeSH terms relating to DVA/CM and the BMJ systematic review strategy ((*Study Design Search Filters* / *BMJ Best Practice*, n.d.)). Key word terms for DVA/CM, abuse,

violence, family members and systematic reviews will be used. These have been developed from the two main NIHR-funded studies in the area ((Howarth et al., 2016) and (Macdonald et al., 2016)) and adapted as required for the different databases with guidance from an expert librarian.

These reviews will be carried out separately for DVA and CM. The DVA search will be run first and any CM studies that do not mention DVA will be excluded (and vice versa). As part of the review involves collecting definitions of DVA/CM, any study deemed to fit within the umbrella by the research team will be included.

**Data extraction (selection and coding)**

All systematic reviews identified by database searches will be downloaded to CADIMA (Kohl et al., 2018) and de-duplicated. Screening criteria will be tested by two reviewers on 200 titles/abstracts and interrater reliability assessed. Titles/abstracts will be screened by one reviewer for inclusion in full-text review. A second reviewer will independently review 10% of title/abstracts. If there is a high level of disagreement, the second reviewer will continue reviewing titles/abstracts until agreement is reached. Full-text systematic reviews will be screened for inclusion and a second reviewer will independently review 10% of these as above. Key data from the systematic reviews (e.g. definition of DVA/CM) will be extracted into CADIMA by one reviewer.

Individual studies will be extracted from the included full-text systematic reviews. These studies will be downloaded to Zotero and de-duplicated. The remaining studies will then be screened for inclusion in full-text review and data extraction. Data will be extracted into Access using a standardised form and a second researcher will review extraction from the first 5 papers. The following data will be extracted: bibliographic information, study design, setting, sample characteristics, definitions of DVA/CM, intervention details, primary and secondary outcomes (applicable for children and families) and their measures, descriptions of mechanisms. (Where DVA/CM is not measured as an outcome, nor is there a subgroup analysis, only exposure definition will be extracted.) Quality control/risk of bias will not be assessed because the aim of the review is solely to collect outcomes.

**Strategy for data synthesis**

Narrative synthesis and tabulation of outcomes extracted.

**B - Rapid review of qualitative studies**

Review questions:

- 1) What outcomes (benefits or harms) are sought or experienced by actual or potential recipients of interventions/services aiming to prevent or reduce the risk of harm associated with DVA/CM?
- 2) What outcomes (benefits or harms) are sought by stakeholders\* involved in developing and/or delivering interventions to children/families experiencing DVA/CM?

*\*'stakeholder' is defined as in the IMPROVE study i.e. young people with experience of DVA/CM services, parents/caregivers with experience of using DVA/CM services or professionals involved in commissioning and delivering services to families affected by DVA/CM.*

This review will be carried out in parallel for DVA and CM.

### Study inclusion:

- Primary qualitative (i.e. analysis of interviews, focus groups or other verbal analysis which is not quantified) intervention studies either as a standalone study or a discrete component of mixed-method studies.
- Direct and sufficient verbatim text from participants for analysis (i.e. more than two lines) c.f. Arai et al. (2019).
- Published since October 2015 (DVA) and July 2014 (CM) to build on Howarth et al. (2016) and Macdonald et al. (2016).
- No restrictions by country. English language only.
- Individual studies must include DVA/CM in one of the following ways:
  - Participation in the study is determined by experience, perpetration or specifically identified as at risk of DVA/CM. Participants may have received an intervention or may be discussing the impact of DVA/CM and their desired outcomes for the future. (To ensure we are not limited by outcomes defined by current interventions).
  - OR
  - Stakeholders involved in developing and/or delivering interventions to children/families experiencing DVA/CM (c.f. Howarth et al, 2016, p.52), or stakeholder discussion of outcomes that are sought either in relation to an intervention or the future in general.

**Exclusion:** Non peer-reviewed studies, surveys or quantitative studies with descriptive free-text only, general literature reviews, case reports, general discussion papers, letters, commentaries, editorials, book chapters, conference papers, theses and dissertations.

**Population inclusion:** Any adult or child stakeholders relevant to DVA/CM. This could be as a result of experience, perpetration, identified as at risk, delivering, commissioning or intending to deliver services.

**Phenomenon of interest:** DVA/CM

**Design:** Any qualitative approach to data collection and analysis (e.g. interviews, focus groups)

**Evaluation:** Perspectives of experienced or anticipated benefits or harms of interventions, and/or desired outcomes in general related to DVA/CM.

### Searches

The following electronic databases as advised for qualitative research (Evans, 2002; McFadden et al, 2012; Booth, 2016) will be searched from October 2015 (DVA) and July 2014 (CM): ASSIA, CINAHL, GoogleScholar (first 100 hits), PsycInfo and SSCI.

This review is building on Howarth et al. (2016) and Macdonald et al. (2016) so relevant studies from these reviews (and related work such as Arai et al. (2019)) will be included. In addition, expert recommendations of relevant qualitative studies or reviews and any qualitative studies identified from the reviews of systematic reviews will be included.

The search strategy will use the same terms for DVA/CM as the review of systematic reviews, plus additional search terms to identify qualitative research. These will be adapted as required for the different databases with guidance from an expert librarian. These reviews will be carried out separately for DVA and CM. The DVA search will be run first and any CM studies that do not mention DVA will be excluded (and vice versa) but put aside for inclusion in the relevant review. This review will not adhere to set definitions of DVA/CM, thus any study deemed by the research team to address the phenomena of interest will be included and justified in the discussion of findings.

**Screening**

Screening of abstracts from the searches and articles included in the full text stage will be guided by questions asked in the IMPROVE study (Howarth et al., 2016):

- 1) Is this qualitative research?
- 2) Is there sufficient verbatim text? (i.e. more than 2 lines)
- 3) Does the paper discuss perspectives of experienced or anticipated benefits or harms of interventions, and/or desired outcomes in general related to DVA/CM.

All articles identified by searches will be downloaded to CADIMA (Kohl et al., 2018) and de-duplicated. Screening criteria will be tested by two reviewers on 10% titles/abstracts and interrater reliability assessed. Titles/abstracts will be screened by one reviewer for inclusion in full-text review. A second reviewer will independently review 10% of title/abstracts. If there is a high level of disagreement, the second reviewer will continue reviewing titles/abstracts until agreement is reached. Full-text systematic reviews will be screened for inclusion and a second reviewer will independently review 10% of these as above. Key details (e.g. bibliographic information, study design, setting, participants etc.) about each full-text inclusion will be recorded in Access.

**Strategy for data synthesis**

Thematic frameworks will be developed from the IMPROVE study (Howarth et al., 2016) for DVA and the parallel CM study (MacDonald et al., 2016), and input into NVivo 11 (QSR International). The frameworks will focus on barriers and harms of interventions according to parents, children and stakeholders, based on the research questions. These will be used as the basis for a framework analysis (Ritchie & Lewis, 2003) of the studies from the review (Howarth et al., 2016; Arai et al., 2019; Macdonald et al., 2016). As per Howarth et al. (2016), participant quotations and author-identified themes will be extracted rather than line by line coding. Findings will be grouped by whose view was reported and extracts from the texts will be categorised according to this framework with the aim will be to meta-aggregate the studies' findings. Further categories will be developed where there are discrepancies or gaps in the initial framework.

The analysis and interpretation of the findings will occur at the synthesis stage in order to provide an overview of the findings, informed by the principles of meta-synthesis (c.f. Noblit & Hare, 1988), although using a lighter touch given time constraints. Two researchers will work together throughout this process to ensure consistency of categorisation and analysis. Quality will not be assessed because the aim of the review is solely to identify candidate outcomes. The ENTREQ statement (Tong et al., 2012) will be followed for the write-up.

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## C – Rapid review of grey literature

### Review questions:

- 1) How are DVA and CM defined in relevant UK service policy contexts?
- 2) How are outcomes defined: (i) in UK service-based evaluations of interventions? (ii) in relevant policy or commissioning frameworks?

This review will be carried out as a single process given the likelihood of crossover literature. Findings will be recorded as DVA or CM or both.

### Literature inclusion:

- Any national or regional policy or practice document that reports on DVA/CM-relevant services or outcomes (e.g. measurement/theory).
- Participation in the service is determined by experience, perpetration or identified as at risk of DVA/CM. (Identification of risk is by practitioners or participants thus we do not have a definition).
- Published since 2016 to build on Howarth et al. (2016) and Macdonald et al. (2016).
- England-based only. English language only.

Exclusion: Publication in academic journals, book chapters, conference papers, theses and dissertations.

**Population inclusion:** children or families with children at risk of experiencing, or experiencing DVA/CM. This includes unborn children, children (aged 0 to 18 years), designated as victim or witness. For DVA any adult family members who have a caring or parenting role (Early Intervention Foundation, 2014), whether designated as perpetrator, victim, witness or household member. For CM any adult family members who have a caring role, whether designated as perpetrator, witness or household member.

### Service inclusion: Any services where:

- Experience of or increased risk of experiencing DVA/CM is a criterion for being offered the service/intervention.
- Services/interventions may be delivered to any family member(s) as an individual or in a group. Any duration of service/intervention will be included. Any setting will be considered.

OR

- Any evaluative work or outcomes framework where at least one child or family-level outcome is evaluated/discussed. Family-level outcomes do not need to be explicitly labelled as 'family' level, we will make a judgement. However, they include any outcome that affects the family/household unit. For example, worklessness in study where at least some participants are reported to be parents would be included.

Exclusion: universal services/interventions that do not specifically target children and families at risk of DVA/CM; targeted services/interventions that do not measure any child or family level outcomes e.g. perpetrator programmes that focus solely on attitudinal change; DVA (only) services/interventions focused solely on elder abuse, sibling abuse or child perpetration of domestic violence, where participants have not been identified as exposed to DVA (i.e. perpetration of abuse by a child could feasibly be an outcome associated with exposure).



**Outcome inclusion:** Any family or child-level outcome measured or evaluated or discussed in any way. Intermediate outcomes that could feasibly represent preconditions needed to reach distal/final outcomes (including those relating to the process of service delivery) will be included, along with final/distal outcomes.

**Searches**

The following databases and websites will be searched:

Grey databases: NICE Evidence Search and Open Grey

Organisation websites including but not limited to:

DVA: Women’s Aid, Refuge, Respect, Safe Lives, Voices, AVA, Standing Together, Imkaan, The Stefanou Foundation, Women’s Trust, Hestia, DVIP, Nia, The Haven, ManKind Initiative, Everyman Project, NCDV, Galop, LAWA, IDAS, Advance, Your Sanctuary, Advocacy After Fatal Domestic Abuse (AAFDA); Aurora New Dawn; My Sister’s Place

CM: Centre of expertise on child sexual abuse, FDAC, SCIE, The Survivors’ Trust

General websites: Victim Support, Barnardos, NSPCC, Early Intervention Foundation, NatCen, RCGP, RCN, RCM, NICE, BPS, IHV, WHO, UNICEF, Working together, gov.uk (incls e.g. DA bill, ‘Working together’), Public Health for any UK nation, Office of the children’s commissioner for any UK nation, Big Lottery, Comic Relief, The Childhood Trust, UK College of Policing, Research in Practice, ‘What Works’, Joseph Rowntree Foundation, What Works for Children’s Social Care.

Websites will be searched manually for relevant documents. It is anticipated there will be an element of snowball searching as relevant organisations will have links to further organisations. Searches will be run simultaneously and then relevant reports assigned to DVA/CM or both. All websites searched will be recorded in Excel/Access along with relevant details about any reports captured. The expert reference group will be consulted about relevant websites to search or reports to include at multiple timepoints.

**Data extraction and synthesis**

As a range of types of data are anticipated, both the systematic review and the qualitative review protocols will be adapted as necessary to capture and record relevant information. It is likely that there will be non-standardised evaluation measures and interview quotations. Report identification from websites/databases will be carried out by a single researcher and the process transparently recorded. All details regarding evaluation studies and relevant outcomes will be recorded, and where necessary synthesised when the data is qualitative. Access/Excel/NVivo will be used as required to record all steps and ensure a transparent process. A second researcher will cross-check a subset of the reports and the data extracted to ensure consistency and focus on the review questions.

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