# Evaluation of Family Drug and Alcohol Courts

<table>
<thead>
<tr>
<th>Intervention Developer</th>
<th>Family Drug and Alcohol Courts in England</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery Organisations</td>
<td>Family Drug and Alcohol Courts in England</td>
</tr>
<tr>
<td>Evaluator</td>
<td>NatCen Social Research</td>
</tr>
<tr>
<td>Principal Investigator</td>
<td>Robert Wishart</td>
</tr>
<tr>
<td>Protocol Author(s)</td>
<td>Robert Wishart, Kostas Papaioannou, Adam Gilbert, Katriina Rantanen</td>
</tr>
<tr>
<td>Type of Trial</td>
<td>Quasi-experimental design: Coarsened Exact Matching</td>
</tr>
<tr>
<td>Age or Status of Participants</td>
<td>Parents in care proceedings; Children of Parents in care proceedings</td>
</tr>
<tr>
<td>Number of Participating Local Authorities</td>
<td>31</td>
</tr>
<tr>
<td>Number of Children and Families</td>
<td>600 children (300 intervention; 300 control): 430 families (215 intervention; 215 control)</td>
</tr>
<tr>
<td>Primary Outcome(s)</td>
<td>Reunification</td>
</tr>
<tr>
<td>Secondary Outcome(s)</td>
<td>Parental alcohol and drug misuse cessation, number of contested hearings, use of expert witnesses, parent-child relationship, parental mental health.</td>
</tr>
<tr>
<td>Contextual Factors</td>
<td>Covid-19</td>
</tr>
</tbody>
</table>
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Background and Problem Statement

In 2008 the Government launched its family drug policy strategy, which aimed to prevent intergenerational harm because of parental substance misuse (HM Government, 2008) and to improve outcomes for children affected by parental substance misuse (Harwin and Ryan, 2008). The first UK Family Drug and Alcohol Court (FDAC) was set up in London in 2008 as a three-year pilot funded by central government in the Central London Family Proceedings Court. The London FDAC was followed by sites in Milton Keynes and Buckinghamshire (2014) and East Sussex (2015).

The basic criterion for FDAC referral is that parental substance misuse (drugs or alcohol or both) is a key factor of the Local Authority’s concerns about child(ren) within a care proceedings case. FDACs aim to improve outcomes for children and families by providing an alternative way of working with parents involved in care proceedings in relation to alcohol and drug use. The primary aim of FDAC is to ensure that a child can stay with parents or be reunified at the end of care proceedings if it is safe to do so. If reunification is not possible, then the aim is to find an alternative carer for the child swiftly, to give the child the best chance for permanency and stability. FDAC also aims to stop parents from misusing alcohol and drugs, to make the home environment safer, and to reduce the risk of future instances of care-proceedings.

FDACs use a ‘problem-solving’ court approach to justice, whereby courts use their authority to help address the complex social issues that bring people before them (Harwin and Ryan, 2008; Roberts et al., 2017). FDACs encourage parents to believe recovery and change are possible, along with aiming to provide a realistic understanding of the challenges they face. Specialist, designated judges provide parents with regular supervision and support through fortnightly court reviews. A specialist multidisciplinary team also works closely with the courts and parents to support families to change and overcome their alcohol and drug misuse problems and other difficulties.

Children and Families Act 2014

The Children and Families Act 2014 made several substantive changes to the implementation of care proceedings. The changes most relevant to FDAC relate to the use of experts in care proceedings and the introduction of new limits on the duration of care proceedings. S13 restricted the use of experts as these delayed cases. S14 introduced a 26-week limit on the length of care proceedings, though extensions can be granted in some circumstances.

The National Unit

In April 2015, the Department of Education’s (DfE) Children’s Social Care Innovation Programme supported the Tavistock and Portman NHS trust and adoption charity Coram to create the FDAC ‘National Unit’ to scale up the intervention. The National Unit supported nine FDAC sites and closed in September 2018. Further information about the National Unit’s implementation is explored in Roberts et al. (2017).

Effectiveness

Early evidence about FDAC was promising. Harwin et al. (2011) found that FDAC parents were more likely to stop misusing alcohol and drugs, and more likely to be reunified with their children relative to a comparison group. This study also provided some evidence that FDAC could provide cost savings by using fewer experts relative to ‘business-as-usual’ care proceedings.
The ‘After FDAC: outcomes 5 years later’ study, found that a higher proportion of mothers in FDAC abstained from drugs or alcohol over the five-year follow-up, relative to comparison mothers (Harwin et al., 2016; Harwin et al., 2018). It also found that a significantly higher proportion of FDAC than comparison mothers who had been reunited with their children at the end of proceedings experienced no disruption to family stability at three-year follow-up. Whilst the study compared intervention outcomes to a comparison group, the comparison group was drawn from business-as-usual care proceedings where alcohol or substance misuse was a factor in issuing care proceedings. The study did not construct a counterfactual using other factors, which may have made for a stronger comparison (e.g. by using matching). In addition, this study drew on a relatively small sample size (140 intervention cases; 100 comparison cases).

A study of the London FDAC found that a higher proportion of parents whose case was heard in FDAC had ceased misusing alcohol and drugs by the end of proceedings, and more FDAC than comparison families were reunited with their children. Additionally, proportionately fewer children in FDAC families experienced new neglect or abuse in the first year following reunification (Harwin et al., 2014).

**Variation between sites**

FDACs also deliver their support differently across sites. All sites deliver support during care proceedings, but some sites (such as Gloucestershire) also offer pre-proceedings or post-proceedings support. Some sites offer peer-mentoring, and overall staffing varies between sites. Additionally, some teams are embedded within Local Authorities (such as Gloucestershire) whilst other multidisciplinary teams are commissioned services delivered by external providers (such as London).

Variation also exists between sites when there is subjective decision making (such as deciding which cases to offer support out of a sample of cases that meet the inclusion criteria).

**Rationale for further evaluation of FDAC**

Prior evidence suggests that FDAC is a promising intervention for children in families with alcohol or drug misuse. Yet much of the prior evidence about FDAC’s effectiveness comes from the London FDAC site. The evidence may also be further strengthened by assessing impact with a stronger counterfactual and with larger sample sizes (to detect smaller effects). Furthermore, these evaluations assessed the effectiveness of FDAC before the reforms introduced by the Children and Families Act 2014, which changed how care proceedings are administered. A separate feasibility study was therefore carried out to establish a research design to evaluate the impact of FDAC on outcomes for children and families across FDAC sites and in light of legislative reform. The design of the current study is the result of this feasibility study.

**Intervention and Theory of Change**

This section outlines how the intervention is delivered and the Theory of Change (ToC) that was developed with stakeholders during the feasibility stage of this evaluation. Although there is variation in the elements included in FDACs and how they are implemented, the ToC is designed to outline the overarching logic common to the FDAC approach in general. The FDAC logic model and ToC are detailed in Appendices A and B respectively.
**Intervention**
FDAC provides support to parents to help them overcome their problems to give children the best possible chance of being raised by their own parents. FDAC recognises that very few parents intend to abuse or neglect their children, but that parents fail when they have significant problems. This includes substance and alcohol misuse, domestic abuse, mental health problems and severe poverty.

FDAC is designed to be a ‘problem solving’ court that adopts a less adversarial approach than typical care-proceedings. It follows the principle of therapeutic jurisprudence, empowering families with a stronger voice in care proceedings.

**How is the intervention delivered?**
Each FDAC site has a dedicated FDAC judge. The FDAC judge has jurisdiction over both care-proceedings and the FDAC treatment intervention. The FDAC judge oversees fortnightly reviewing hearings with the multidisciplinary team. Lawyers do not attend the fortnightly review hearings. The multidisciplinary team provides treatment and support to parents, monitoring their progress and reporting back to the court at the fortnightly review hearings. These hearings aim to solve the problems faced by the parent through an open therapeutic forum.

The staffing of the multidisciplinary team varies across FDAC sites, though the core structure includes substance misuse specialists, social workers and an overall site manager.

**When and where is the intervention delivered?**
The intervention is delivered during care-proceedings, which typically last up to 26-weeks. In some circumstances, extensions to care-proceedings are granted.

There are fourteen FDAC sites, operating within Local Authorities. A full list of FDAC sites and the Local Authorities each site covers is detailed in Table 1.

<table>
<thead>
<tr>
<th>Table 1 FDAC sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDAC site</td>
</tr>
<tr>
<td>Bedfordshire</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>Birmingham and Solihull</td>
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<tr>
<td></td>
</tr>
<tr>
<td>Coventry</td>
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<tr>
<td></td>
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<tr>
<td>East Sussex</td>
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<tr>
<td>Gloucestershire</td>
</tr>
<tr>
<td>Kent</td>
</tr>
<tr>
<td>Leeds</td>
</tr>
<tr>
<td>London</td>
</tr>
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<td></td>
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<td></td>
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<tr>
<td></td>
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<tr>
<td>Areas</td>
</tr>
<tr>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>Lambeth</td>
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<tr>
<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>Milton Keynes and Buckinghamshire</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Newcastle</td>
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<tr>
<td></td>
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<tr>
<td></td>
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<tr>
<td>Somerset</td>
</tr>
<tr>
<td>Southampton</td>
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<tr>
<td>Stockport</td>
</tr>
<tr>
<td>Walsall</td>
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</tr>
</tbody>
</table>

**Variation and iterations**

Although the core FDAC model is the same, there are some differences in the implementation of the intervention across sites. For example, some sites have started providing support in pre-proceedings (London and Kent) or post-proceedings (Gloucestershire). Some sites also use peer-mentoring, where successful parents support parents in care-proceedings. This study focuses on the overall effectiveness of FDAC across sites.

Separate evaluations are being conducted on behalf of the What Works Centre for Social Care which will explore these variations in greater detail:
- Peer-mentoring; evaluated by King’s College London.
- Post-proceedings support in the Gloucestershire FDAC; evaluated by the University of Sussex.
- Engagement with FDAC using behavioural insights; evaluated by the Centre for Evidence Implementation.

**Impact Evaluation**

**Research questions**

The impact evaluation will seek to answer the following questions:

**RQ1** What is the impact of FDAC on the likelihood that children are reunited with their parents at the end of care proceedings relative to business-as-usual care proceedings?

**RQ2** What is the impact of FDAC on the likelihood that parents continue to misuse alcohol or drugs by the end of care proceedings relative to business-as-usual care proceedings?

**RQ3** What proportion of children reunified at the end of FDAC care proceedings are still placed with their parent(s) three years after final court hearing and how does this compare with the national average?
RQ4 What is the impact of FDAC on the likelihood of final care proceedings hearings being contested relative to business-as-usual care proceedings?

RQ5 What is the impact of FDAC on the likelihood of expert witnesses being consulted during care-proceedings relative to business-as-usual care proceedings?

RQ6 What is the impact of FDAC on the placement of the child at the end of care proceedings relative to business-as-usual care proceedings?

Participants

Study participants will be drawn from the thirty-one Local Authorities covered by the fourteen FDAC sites. Participants in the intervention group will be those going through FDAC court proceedings Control cases will be selected from business-as-usual care proceedings cases.

Eligibility for study inclusion is defined as the following:

- **Intervention** – all cases that have been referred to an FDAC that are live between January 2021 and June 2022 will be considered eligible.
- **Control** – any case that meets the basic criteria for an FDAC referral and sits within an area covered by a Local Authority that has an FDAC but receives business-as-usual care proceedings that are live between January 2021 and June 2022 will be considered eligible.

The basic criterion for FDAC referral is that “Parental substance misuse (drugs or alcohol or both) is a key factor of the Local Authority’s concerns about the child(ren) within a care proceedings case”. This will be captured for FDAC cases from a suite of variables, including:

- Current or historical misuse of drugs or alcohol
- Substance misuse type
- Severity of alcohol misuse
- Severity of drug misuse

This data is not currently systematically collected for non-FDAC cases, but we intend to work with Local Authorities to capture this data for non-FDAC cases based on existing data (for example in case notes).

Additionally, some FDACs have developed their own referral inclusion and exclusion criteria though the variation between sites has never been closely documented. Some FDAC sites exclude cases where parental psychosis or litigation capacity may act as a barrier to parental engagement with FDAC or where there is a history of severe physical or sexual abuse of the child(ren). Furthermore, the selection process likely varies by FDAC site in regard to subjective components that are not included within the criteria. There is therefore likely to be a degree of selection bias, with systematic differences between control and treatment participants.

FDAC case data will be retrieved directly from CJI following the development of a data sharing agreement. This data sharing agreement should be sufficient to enable access to all necessary FDAC data for the purposes of the study. Alternatively, however, separate data sharing agreements may have to be drawn for each of the individual FDAC sites. Further

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1 Note that this refers to RQ1, 2, 4 and 5. RQ3 draws on data from a prior cohort of FDAC participants (2017 and 2018).
data sharing agreements will also be drawn for each of the participating Local Authorities in order to grant access to the necessary control case data.

Design

<table>
<thead>
<tr>
<th>Table 2 Study design</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trial type and number of arms</strong></td>
</tr>
<tr>
<td><strong>Unit of identification</strong></td>
</tr>
<tr>
<td><strong>Matching variables</strong></td>
</tr>
<tr>
<td><strong>Primary outcome variable</strong></td>
</tr>
<tr>
<td><strong>Primary outcome measure (instrument, scale)</strong></td>
</tr>
<tr>
<td><strong>Secondary outcome(s) variable(s)</strong></td>
</tr>
<tr>
<td><strong>Secondary outcome(s) measure(s) (instrument, scale)</strong></td>
</tr>
</tbody>
</table>

A randomised controlled trial was considered for this evaluation but was rejected as the judiciary thought that randomisation of families in care-proceedings could be subject to legal challenge. A feasibility study was conducted as part of this evaluation considering suitable evaluations. The impact evaluation, therefore, uses a quasi-experimental design: Coarsened Exact Matching (CEM).

Identification strategy

The intervention group will consist of cases that have been selected by an FDAC site to receive FDAC care proceedings. A counterfactual, or control group, will be selected from business-as-usual care proceedings cases that meet the basic criteria for inclusion in an FDAC but were not selected for FDAC despite being within a Local Authority that has an FDAC. The basic criteria for inclusion in FDAC are that care proceedings have been issued and that there are concerns about parental alcohol or drug misuse as part of the care proceedings case. This method will involve constructing the counterfactual by combining a CEM approach, as described by Iacus et al. (2009), with regression analysis.

Implementing CEM requires covariate data for characteristics associated with selection into the intervention or the outcome at the start of care proceedings. For example, this could include risks to the child (such as parental alcohol or drug misuse or domestic violence in the household). Covariates will be “coarsened” into binary or categorical variables (for example, if it is a continuous variable, such as the age of the child, the variable would be re-categorised into age bands). Some covariates that are already collected in FDAC sites are currently collected categorically and will not require coarsening. For example, parental alcohol and drug misuse at the start of proceedings are assessed using clinical judgment.
(high, medium and low risk). Table 3 outlines the variables collected and how they will be coarsened for matching. A sensitivity analysis will coarsen these covariates (by further collapsing coarsened covariates).

The sample will then be reduced to just observations that have at least one observation for both groups (intervention and control) for unique combinations (strata) of coarsened covariates. To maximise the likelihood of including all treatment cases, we aim to use a larger sample of control cases relative to the intervention group. This approach is typical for matched study designs. Control cases in strata without intervention cases will be removed from the sample. Observations will be weighted to ensure that the number of intervention and matched-control observations within strata is the same. The impact is estimated by comparing the outcomes of the intervention group with the outcomes of the matched-control group.

A CONSORT flow diagram of losses and exclusions will be provided in the evaluation report. If intervention cases are lost at the matching stage, it would indicate that there were not suitably similar observations in the control group. This would limit the generalisability of the study findings.

The unit of analysis varies across outcomes. The primary outcome (reunification) is defined at the child-level, but some secondary outcomes (such as parental alcohol or drug misuse) are defined at the family-level. Matching will be implemented separately for outcomes at different units of analysis. Child-level outcomes will include covariates about the child (such as age), parent (such as alcohol and drug misuse at baseline) and family characteristics (such as the number of children in the family). Parent-level outcomes will include all these covariates except for child-level characteristics, which will be aggregated to family level characteristics.

After cases have been matched, covariate balance will be assessed by comparing the characteristics of the intervention and control groups before and after matching. Comparisons will be made using the covariates in an uncoarsened state, with differences reported as Hedge’s g effect sizes.

If we observe an imbalance with an effect size of greater than 0.05, we will revise the matching specification by adjusting the coarsening of any variables with an imbalance of greater than 0.05. We will reduce the number of coarsening categories (unless the variable in question is already uncoarsened). If this does not resolve the imbalance, we will coarsen the variable further instead.

Data sources and availability

The data to be used for matching and the evaluation of outcomes will be collected from several sources:

- The FDAC data collection tool, for FDAC cases
- Local Authority case management systems, typically within children’s social care and legal teams

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2 Although the CONSORT Statement was originally developed to guide the reporting of RCTs, many of its components also apply to other types of quasi-experimental impact studies. A flow diagram template will be downloaded from http://www.consort-statement.org/.
• Case notes, typically held by Local Authorities and courts

Data collected as part of the FDAC data collection tool will be the source of data for intervention cases. Ideally, data for the control group would be collected from the same data source, however Local Authorities do not systematically collect all the information collected by FDAC sites. Local Authorities will be asked to provide comparable data from their own case management systems and case notes based on a template developed by NatCen. As far as is possible, we will aim for comparable data collection. For example, we will collect data from fields used in statutory returns, such as those collected in the CIN census. Fields collected by control sites will be more limited relative to intervention sites. For example, drug misuse will be based on data collected by Local Authorities, which may not be as accurate as the testing conducted in FDAC sites (e.g. drug testing using samples of parent’s hair).

Our data collection template that will be completed by the Local Authorities will include detailed instructions and guidance for all key fields required to complete this evaluation. For example, there will be guidance for clinical judgements on substance misuse severity, into three categories: low, medium and high. For each of these categories, a detailed description would explain to LAs how to classify each case. For example, intravenous (IV) drug use would fall into the high drug misuse category, where the use of prescription drugs such as zopiclone, diazepam, co-codamol would fall into the low drug category. Furthermore, there will be cell validation in most fields of the designed data collection template in order to minimise blank cells and ensure data comparability across Local Authorities. We will only be able to use fields collected in both FDAC sites and Local Authorities in the matching.

Key characteristics that we intend to include in the matching are illustrated in Table 3. Each of these characteristics are collected in both the FDAC data collection tool and the control group data collection tool. These variables are important indicators of whether a case is suitable for FDAC (such as type and severity of drug and alcohol misuse). However, it cannot account for subjective criteria that may be used by FDAC sites in determining which cases should be supported by FDAC. Table 3 also outlines how specific variables will be coarsened in matching.

We intend for Local Authorities to complete this data tool using data from their own case management systems and case notes. However, there is a risk that some items (particularly if instruments need to be administered by clinicians) may not be available.
<table>
<thead>
<tr>
<th>Parent characteristics</th>
<th>Variable</th>
<th>Type</th>
<th>Coarsening Strategy</th>
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<tbody>
<tr>
<td>Demographics</td>
<td>Age</td>
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<tr>
<td></td>
<td>Ethnicity</td>
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<tr>
<td></td>
<td>Number of children</td>
<td>Continuous</td>
<td>Bands: 1, 2, 3 or more</td>
</tr>
<tr>
<td></td>
<td>Age of youngest child in the household</td>
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<td>Age bands: Less than 12 months old, 1-2, 2-3, 4-7, 8-11, 12-16</td>
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<tr>
<td></td>
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<tr>
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<td>Former looked after child</td>
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</tr>
<tr>
<td></td>
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<td>Binary</td>
<td>No coarsening</td>
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<td></td>
<td>Any criminal convictions or cautions</td>
<td>Binary</td>
<td>No coarsening</td>
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<tr>
<td>Substance misuse</td>
<td>Whether misusing at time of referral</td>
<td>Binary</td>
<td>No coarsening</td>
</tr>
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<td></td>
<td>Substance misuse type</td>
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<td>Severity of alcohol use (clinical judgment)</td>
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</tr>
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<td>Mental health</td>
<td>Severity of drug use (clinical judgement)</td>
<td>Categorical</td>
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<td>DSM/ICD Diagnosis</td>
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<tr>
<td>Child characteristics</td>
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<td>Ethnicity</td>
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<td>Previously looked after</td>
<td>Binary</td>
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<td>Subject to an order</td>
<td>Binary</td>
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<tr>
<td>Ever had a criminal conviction</td>
<td>Binary</td>
<td>No coarsening</td>
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<td>Issue around school attendance</td>
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<tr>
<td>Education, Health and Care (EHC) Plan</td>
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<tr>
<td>Case characteristics</td>
<td>Date</td>
<td>Date</td>
<td>Year and quarter</td>
</tr>
</tbody>
</table>


Minimum detectable effect size calculations

Power calculations were conducted in Stata 16.1 based on the anticipated matched sample size, using formulae from Dong and Maynard (2013). These formulae are presented in Appendix D. The total number of control cases will exceed the numbers prior to matching. Cases are then weighted so that there are equivalent intervention and control cases, so we assume equal sample sizes at analysis. Our assumptions are:

- Clustering of children within parents, with an ICC of 0.70
- No clustering of children within Local Authorities
- Variance explained by the uncoarsened covariates used in a regression model after matching, with an R-squared of 0.20 at level one and 0.10 at level two. We estimate this to provide a correlation of 0.45 and 0.32 respectively³
- That 25% of children in control are reunified with their parents by the end of care-proceedings (informed by Harwin et al., 2018)
- A type one error rate of 0.05
- Power of 0.80 (a type two error rate of 0.20)
- Two tailed significance testing

There is some uncertainty on the expected sample size. Based on Harwin et al. (2018) we anticipate that each FDAC case will have approximately 1.40 children. Our assumptions use this figure and build on estimates of expected caseloads for the implementation period (January 2021 – June 2022) collected by FDAC sites by CJI in Summer 2020. Based on updated figures concerning expected caseloads, we anticipate a sample of 300 intervention children from 215 families.

Based on these assumptions, we expect the evaluation will be powered to detect a relative risk ratio of 1.36 (or equivalent to a 9.1 percentage point difference). No power calculations are conducted for secondary analyses, but these will have lower power as the unit of analysis is at the family-level. However, as the intracluster correlation coefficient is relatively large, the reduction in power will be relatively small.

<table>
<thead>
<tr>
<th>Table 4 Minimum detectable effect size calculation</th>
<th>MDES (Proportion of a Standard Deviation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Risk Ratio</td>
<td>1.36</td>
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<tr>
<td>Baseline/Endline correlations</td>
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<tr>
<td>Child</td>
<td>0.45</td>
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<tr>
<td>Family</td>
<td>0.32</td>
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<tr>
<td>Social Worker</td>
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<tr>
<td>Family</td>
<td>0.70</td>
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</table>

³ Our sample size calculations include estimates of the proportion of variance explained through the included covariates at each of these levels (R-squared). We have converted these into pre- post-test correlations by taking the square root of the R-squared value.
Intracluster correlations (ICCs)  
<table>
<thead>
<tr>
<th></th>
<th>Social Worker</th>
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<tbody>
<tr>
<td></td>
<td>Team</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Alpha: 0.05

Power: 0.80

One-sided or two-sided?: 2

Level of intervention clustering: Family

Average cluster size: 1.40

Sample Size (children)†
<table>
<thead>
<tr>
<th></th>
<th>Intervention</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Control</td>
<td>300</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>600</td>
</tr>
</tbody>
</table>

Sample Size (families)
<table>
<thead>
<tr>
<th></th>
<th>Intervention</th>
<th>215</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Control</td>
<td>215</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>430</td>
</tr>
</tbody>
</table>

† Of which, we assume half are intervention children and half are matched control children

Outcome measures

The primary and secondary outcomes will be sourced from the FDAC data collection tool for intervention cases and Local Authority administrative data for control cases. Local Authorities will already collect data on reunification but may not systematically capture parental alcohol or substance misuse, contested final hearing and use of expert witnesses. This will be included in the data collection template prepared by NatCen.

The primary outcome of interest will be a binary indicator of reunification immediately at the end of care proceedings. We define reunification as the legal order given for the child to either return to live with the parent, or to continue to live with the parent. Reunification is not achieved where the placement of a child at the end of care proceedings is different from the start of proceedings. This includes placement with another parent or family member at the end of care proceedings. For FDAC cases, the judge’s ruling on the placement of the child will be recorded in the FDAC tool by FDAC staff. We expect the placement of the child would be recorded by Local Authorities and this will be captured in the data collection template for non-FDAC cases.

The secondary outcomes are parental alcohol and drug misuse cessation, whether the final hearing is contested, and whether expert witnesses were used during care proceedings.

Parental alcohol and drug misuse are currently recorded in the FDAC data tool as two key categorical variables: the severity of parental substance misuse (low, medium, high) and the level of risk to the child from parental substance misuse (low, borderline, harmful). We anticipate that this will be recorded differently in the new tool – using a suite of binary indicators that used to be fed into the clinical judgement that is currently used. For example, whether a drug is taken intravenously (IV) or whether cannabis use is occasional or heavier (more than once a day, or large quantities). The final outcome variable will be a binary indicator of whether the parent is currently misusing drugs or alcohol at the end of care proceedings (where one indicates they are currently misusing and zero indicates they are not currently misusing).
As we are interested in the impact of FDAC on the likelihood of final care proceedings hearings being contested relative to business-as-usual care proceedings (RQ4), contested final hearings will be recorded as a binary outcome. The final hearing will be classified as contested regardless of which party contests the hearing.

Similarly, as we are interested in the impact of FDAC on the likelihood of expert witnesses being consulted during FDAC care-proceedings relative to business-as-usual care proceedings (RQ5), the use of expert witnesses will be defined as a binary variable. If the number of witnesses is recorded, then this will be dichotomised.

Long term reunification will also be assessed. This will be defined based on a return to court for care proceedings within three years of reunification at the end of care proceedings. To address this research question (RQ3), we will use long term reunification data obtained from Cafcass. This data has detailed accounts of FDAC care proceedings cases from 2017/18. We will also assess the final legal order from the return to court.

Finally, we will also consider the placement of the child. We will conduct an additional analysis (RQ6) with a categorical outcome variable that indicates whether the child is placed with their parents, living with another relative of in LA care, rather than as a strict binary outcome indicating whether cases resulted in reunification or not.

Analysis plan

Primary Analysis

Matching

The primary analysis will estimate the impact of FDAC on reunification at the end of care proceedings based on the placement of the child. CEM will be conducted at the child-level using the characteristics identified in the Identification Strategy section. The matching is conducted at parent and child-level, as the placement of children at the end of care proceedings can vary for different children in a care proceedings case. Therefore, the primary analysis seeks to match children in FDAC care proceedings with similar children in business-as-usual care proceedings.

The matching will be conducted using the user-written package *cem* in Stata 16.1 SE (Blackwell et al., 2010), which implements CEM as described in Iacus et al. (2009). The primary analysis will be conducted on an intention-to-treat basis where the outcome is non-missing. Where covariate data is missing, the *cem* package matches cases that are missing data on the same covariates. If missing outcome data exceeds five percent of the intervention sample, we will consider conducting a sensitivity analysis using multiple imputation (see missing data analysis).

Any intervention cases excluded from the analysis because of common support (i.e. that there are no cases with the same coarsened characteristics in the control group) will be transparently reported using a CONSORT flow diagram. If more than five percent of intervention cases are lost because of issues with common support, we will consider adjusting how covariates are coarsened. This would involve collapsing categories of coarsened covariates and altering bin sizes. As a first step we would coarsen the following variables further:

- Child age bands: Less than 4, 5-11, 12-16
- Parental accommodation status: Owned, Tenant (private or social), other
- Parent ethnicity: White, Black, Asian or other minority ethnicity, other, unknown
- Child ethnicity: White, Black, Asian or other minority ethnicity, other, unknown
Covariate balance will be assessed before and after matching. The difference between intervention and control group characteristics (as measured by the uncoarsened covariates) will be presented using Hedge’s g effect sizes, using the `esize` command in Stata 16.1.

**Analysis**

A “doubly robust” estimation of causal effects will be estimated for the matched sample, applying the weights assigned during the matching, including a binary indicator of allocation to FDAC, while also including the uncoarsened matching covariates in the regression model, following Funk et al. (2011). The “doubly robust” estimation reduces the risk that the ITT is biased, provided that either the matching (modelling exposure to the intervention) or the regression model (describing the relationship between the dependent and independent variables) is well specified (Funk et al., 2011). To account for the clustering of children within sites, the regression model will include fixed effects for each site.⁴ The full model notation is as follows:

\[
Reunification_{ijk} = \beta_0 + \beta_1 Intervention_{jk} + \beta_2 Site_{k} + \beta_3 X_{jk} + e_j
\]

Where children (i) are nested within families (j) within sites (k). The vector \(X_{jk}\) denotes the characteristics used in the matching as covariates. The error term is represented by \(e_j\). We will use cluster-robust standard errors to account for the clustering of children within parents. As the outcome is binary, the effect size will be estimated as a relative risk ratio, with 95% confidence intervals.

**Additional Analysis**

We will conduct two sensitivity analyses:
- A logistic regression model will be estimated for the matched sample, applying the weights assigned during the matching, including a binary indicator of allocation to FDAC or business as usual, while dropping the characteristics used in the matching as covariates; and,
- Adjusting the cut-off points when coarsening covariates for the matching

The first sensitivity analysis will be estimated using a similar approach to the primary analysis, but, this time, excluding the characteristics used in the matching in the regression model:

\[
Reunification_{ijk} = \beta_0 + \beta_1 Intervention_{jk} + \beta_2 Site_{k} + e_j
\]

The coarsening of covariates is potentially a subjective decision for the trial analyst that could impact upon the matching and the subsequent effect estimate. Therefore, we consider alternative coarsening strategies (e.g. a greater number of age bands or separating different minority ethnicities). Provided the primary analysis is conducted as planned, the alternative specification will further coarsen covariates, as outlined in the “matching” section.

Finally, we will also assess the impact of FDAC on the placement of the child, using a categorical outcome variable that indicates 1) reunification with the child’s parents 2) placement with another relative, or 3) LA care. This will be assessed using a multinomial logit regression, with cluster-robust standard errors to account for the clustering of children within families.

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⁴ Control cases will be allocated to the FDAC site that serves their Local Authority.
As with the primary analysis, we include the uncoarsened covariates used in matching. We will present effect sizes as Relative Risk Ratios, with 95% confidence intervals.

**Missing data analysis**

If greater than five percent of cases are missing outcome data on the primary analysis, it is likely that missingness may impact the results of the evaluation and we will therefore consider conducting additional analysis for the primary outcome.

Firstly, we will assess if missing data can be predicted using observed characteristics using a ‘drop out’ model. The dependent variable will be a binary indicator of missing data on the primary outcome. Independent variables will include all (uncoarsened) covariates used in the matching model. Additional categories will be added to ensure that cases with missing data on independent variables are included in this model.

If this model finds statistically significant associations (a p-value of less than 0.05) between observed characteristics and the dependent variable, we will assume that data is missing at random (MAR). If we assume data is MAR we will conduct a sensitivity analysis using multiple imputation.

Multiple imputation by chained equations (MICE) will be estimated in Stata 16.1 using the *mi* suite of commands. The first 200 observations will not be used (‘burn in’) to ensure that a stable distribution has been reached. In total, 75 datasets will be imputed. The imputed values will be used in the matching model by using the *impvar* option of the user-written *cem* package used for the primary analysis.

**Secondary Analysis**

The secondary analysis will assess the impact of FDAC on three outcomes:

- Parental alcohol and drug misuse cessation
- If the final hearing was contested
- Whether expert witnesses were used (and the number of expert witnesses).

Matching for these outcomes will be conducted at the family (or case) level using the covariates outlined in Table 3. A separate matching model is used to assess the impact on these outcomes to the primary analysis. Unlike the primary analysis, the unit of analysis for these outcomes is at family (or case) level. We therefore want to match similar parents (or cases) rather than children within cases.

The approach will be consistent with the primary analysis, using the same user-written *cem* package in Stata 16.1. Common support and covariate balance will also be reported consistently with the primary analysis.

Each of these outcomes will be analysed as binary variables with the unit of analysis at family (or case) level. If the use of expert witnesses is recorded as a count variable (i.e. the number of witnesses used) we will dichotomise the variable for this analysis. These

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5 By definition, it is not possible to assess if there are associations with unobserved characteristics. If there were associations with unobserved characteristics, the data would be described as missing not at random (MNAR). In this case, both the primary analysis and multiple imputation would produce biased estimates. A full description of types of missing data and their consequences are available in the WWCSC statistical analysis guidance.
outcomes will therefore be analysed using a logistic regression model, using an approach consistent with the binary analysis:

\[ Cessation_{jk} = \beta_0 + \beta_1 Intervention_{jk} + \beta_2 Site_k + \beta_3 X_{jk} + u_j \]

\[ Contested_{jk} = \beta_0 + \beta_1 Intervention_{jk} + \beta_2 Site_k + \beta_3 X_{jk} + u_j \]

\[ Experts_{jk} = \beta_0 + \beta_1 Intervention_{jk} + \beta_2 Site_k + \beta_3 X_{jk} + u_j \]

**Effect Size Estimation**

The outcomes for this study are binary, and will therefore be estimated as relative risk ratios, with the following formula:

\[ RRR = \frac{\text{Risk of event in intervention}}{\text{Risk of event in control}} = \frac{a}{(a + b)} \cdot \frac{c}{(c + d)} \]

Where (a) is the probability of failure in the intervention group, (b) is the probability of success in the intervention group, (c) is the probability of failure in the control group and (d) is the probability of success in the control group.

**Exploratory Analysis**

Additional analysis will be conducted to assess whether reunification can be sustained over time, as prior evidence (Harwin et al., 2019; Broadhurst et al., 2017) indicated that the greatest risk of returning to court for care proceedings are the first two years after reunification.

A prior cohort (2017 and 2018) of FDAC participants will be identified by FDAC sites. They will then share identifiers with Children Family Court Advisory and Support Service (Cafcass). Cafcass will then identify if children were returned to court for care proceedings in the subsequent three years. The analysis does not compare to a counterfactual as it will be drawing on historic data, and we do not expect comparable data for a control group to be available. This means a counterfactual cannot be constructed with matching. As this analysis will not use a counterfactual, it will not provide a causal claim, but we will compare to a national average.

We are also interested in assessing whether people who experience racism have different outcomes than those who do not. If the available data allows, we will also separate estimates for White FDAC participants and all other FDAC participants. We understand that different ethnicities may experience different impacts, and that White/non-White may mask underlying differences between different groups. However, we do not anticipate that the available sample sizes would support robust estimates for separate minority ethnicity groups.

**Contextual Factors Analysis**

This evaluation includes FDAC sites across multiple Local Authorities. Some FDAC sites will have been operating for over a decade, whilst others will only have launched in 2020. There are also differences in delivery models across sites. This will be explored as part of the Implementation and Process Evaluation (IPE).
In addition, Covid-19 has had a significant impact on social care, both within FDAC sites and in Local Authorities more generally. The impact of Covid-19 varies across some sites. Existing sites have not been able to take on new cases or have had staff diverted to other social care work. New sites have had difficulties with recruitment and have had to delay their launch dates. At this stage, the full impacts of Covid-19 on FDAC sites are not known, but further contextual information will be provided in the evaluation report.

This evaluation will not be powered sufficiently to estimate variation in the effect across sites, but variation in implementation will be explored across sites as part of the IPE.
Implementation and process evaluation

The IPE will use a qualitative methodology; interviews in sampled case study areas, to understand the advantages and disadvantages of particular FDAC iterations and variations and gather information on barriers and facilitators to successful implementation and delivery. It will also explore how perceived impacts from the FDAC courts compare with business-as-usual proceedings. Drawing on the work undertaken for the feasibility study to refine the programme theory for the FDAC model, the IPE will also explore (see Appendix C):

- Views and experiences of implementing FDAC;
- Awareness, understanding and commitment to the FDAC approach;
- Parental engagement, views and experiences of court proceedings;
- Staff and practitioner views and experiences of delivering the model, working across multidisciplinary teams and engaging families; and
- Views on the perceived impact of FDAC on families, the courts, practitioners and wider CJS.

With stakeholders and staff, data collection will focus on commitment, buy-in and understanding of FDAC, views on whether the necessary procedures, processes and resources are in place, the skills and competencies of professionals to effectively deliver FDAC (including for example, selection to receive FDAC), the effectiveness of judicial oversight and partnership working and views on parental engagement, experiences and skills development.

With parents, data collection will include an understanding of and engagement with FDAC, experience of court proceedings and support offered through FDAC, perceptions of change related to skills, competencies and behaviours around for example, accessing support, relationships with children and managing safety and wellbeing, views on fairness and perceptions of impact (including key drivers).

A qualitative approach that provides in-depth information on the implementation, delivery and perceived impact of FDACs will complement the impact evaluation and offer explanations for observed effects – this will help to unpack what works by identifying key facilitators and barriers. A range of dimensions of the implementation will be assessed, including:

- Intervention fidelity reach and dosage – exploring how the programme has been implemented and delivered, whether and how it was delivered to the intended population and the extent of support and contact this group received.\(^6\)
- Quality of delivery – data will be gathered from participants on their experiences of delivering and receiving support through FDAC.
- Variations in FDAC delivery – analysis of interview data will enable a comparison of implementation and delivery issues across different models, to understand facilitators and barriers, drivers of success and will help to draw out learning.
- Participant responsiveness – engagement with the FDAC aims, court proceedings, treatment services and other activities will be explored through data collection with staff and parents themselves.
- Ability to differentiate the programme from business-as-usual activities – where appropriate, participants will be asked to reflect on how implementation and delivery

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\(^6\) The FDAC ‘model’ is delivered differently depending on local needs and infrastructure. ‘Fidelity’ is therefore better understood as being to a set of core elements than a fully articulated model.
experiences differ from business-as-usual. We will also collect data from business-as-usual sites to compare views and experiences directly.

Methods

The IPE will take a case study approach in FDAC sites which will comprise of interviews with key stakeholders, staff and beneficiaries, including for example the judiciary, LA leads, support staff (e.g. substance misuse specialists) and parents who come before the court. We will also conduct interviews with key staff in four non-FDAC ‘business as usual’ courts, to enable us to gain a good understanding of how process differ and key facilitators and barriers to delivering FDAC in different areas.

A brief overview of the rationale for this approach, including some preliminary thoughts on sampling and recruitment is set out below. Depending on the scope of the IPE, it may be valuable to increase interview numbers across case study and non-FDAC sites, which would offer more detailed insight into the implementation and delivery of the pilots.

FDAC case studies

We will carry out six case studies (around 36 interviews in total) across sites. Case study areas will be sampled for diversity across:

- FDAC start dates
- The model of delivery
- The iterations included in the FDAC model
- Volume of FDAC cases / throughput
- We would also aim to get diversity in terms geographical location, local demographics and size of the court.

Case study courts will be selected in close partnership with WWCSC and the CJI, drawing on the detailed knowledge that CJI have on set-up and progress on FDACs, especially in light of Covid-19.7

This case study approach will allow us to explore similarities and differences across the various models of delivery and will include interviews with key stakeholders, staff and beneficiaries, including for example the judiciary, local authority leads, support staff (e.g. substance misuse specialists) and parents who come before the court. The exact breakdown of interviews across these groups will likely vary across the case studies, depending on the model of delivery, however, we would aim to achieve a good spread across the groups and agree a final sampling strategy with WWCSC and CJI when planning fieldwork towards the end of 2020. An early indication of how interviews might be spread across each case study area is included in the table below.

<table>
<thead>
<tr>
<th>Participant Group</th>
<th>Number of interviews within case study</th>
<th>Total number of interviews across sites</th>
</tr>
</thead>
</table>

7 Covid-19 has impacted variously on FDACs, delaying set-up and launch in some areas. We will need to be mindful of this when selecting case study courts for the IPE to ensure as much learning as possible can be gathered from the qualitative data collection.
<table>
<thead>
<tr>
<th>Group</th>
<th>Number of Groups</th>
<th>Total Number of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Judiciary (e.g. judges, magistrates, court clerks etc.)</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>FDAC team leads/ Local authority leads (e.g. staff working with parents to deliver FDAC – aim to achieve diversity across front line and management roles)</td>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td>Support organisations (e.g. specialist domestic violence, substance misuse providers etc.)</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Parents (aim to achieve diversity across parent demographics, for example, family composition, past experience of court proceedings, level of engagement with FDAC etc.)</td>
<td>2</td>
<td>12</td>
</tr>
</tbody>
</table>

**Interviews with non-FDAC sites**

Alongside the work carried out with case study FDAC courts, we also propose to conduct interviews with key staff in four non-FDAC ‘business as usual’ courts (up to eight interviews in total). This will enable us to gain a good understanding of how process differs in non-FDAC courts, including key facilitators, barriers and perceived impacts.

The selection of the non-FDAC sites would be conducted in close collaboration with WWC to ensure sites share some of the key characteristics with the FDAC case studies (e.g. local demographics / geographical location / size of court) for comparison.

**Recruitment**

Recruitment and fieldwork activities should be coordinated and clearly communicated to those involved to minimise burden on FDAC sites and partners. We suggest that a main lead (or ‘link person’) is identified at each case study to support recruitment. This individual will be responsible for liaising with other staff, teams and organisations for recruitment purposes and will be fully briefed by the research team about sampling and recruitment strategies, which can be relayed to others as necessary. The process for identifying and inviting individuals to participate, will likely include the following steps:

- The link person will be sent a concise briefing note explaining how we would like them to help with the evaluation and the process of identifying and recruiting participants. This will be followed up with a phone call to check understanding, identify any potential issues and discuss solutions.
- Individuals who are identified as eligible to take part in the research will be given an information sheet supplied by the research team. All recruitment materials will be clear about: the basis and purpose of the study; who is funding the research; how people can opt-in/out of involvement at no personal cost; confidentiality and caveats to this (for example disclosure), and information about NatCen.
- Those interested in taking part will be asked to either consent to have their contact details passed to the research team or for an interview to be arranged.

As consent is an ongoing process, the research team will revisit the information given at the recruitment stage and gain informed consent before the start of all interviews. Our experience indicates that selection bias can be an issue when recruiting some participant...
groups (especially parents in this study). We have addressed this on previous studies by initially oversampling people to allow the research team to select individuals who best meet the sample criteria and recommend using this approach here.

For non-FDAC sites, where we do not have contacts through CJI, we will approach the family courts selected directly to inform them of the purpose of the study and invite them to participate. We will utilise publicly available information to do this and follow up as appropriate.

**Data collection**

We will draw on our extensive track record of delivering high quality and ethically sound research to inform the approaches we use to introduce the research, encourage participation, and collect data. This will include the development of clear and comprehensive recruitment materials setting out the research requirements and parameters of participation to support informed consent.

Qualitative data collection will be led by experienced members of the research team, who will draw on a range of techniques to collect the highest quality of data, including using active listening and responsive, open questioning to build rapport. Interviews will be supported by a topic guide which will provide an overview of key themes to be discussed with each participant. All recruitment and fieldwork materials will be developed and refined in close collaboration with you to ensure they fully meet the research objectives.

**Analysis and reporting**

Interviews will last up to 60 minutes and will be carried out via phone, web or face-to-face, depending on participant preference and social distancing requirements at the time of data collection. Interviews will be audio-recorded and transcribed verbatim to facilitate robust analysis.

All recordings will be managed using NatCen’s Framework approach. This will involve managing interview data and conducting case- and theme-based analysis. Key topics emerging from the transcripts will first be identified. A thematic framework will then be developed and used to organise the data from each participant. Then the coded data will be reviewed in detail, drawing out the range of experiences or views, identifying similarities and differences, developing and testing hypotheses, and interrogating data to seek to explain patterns and findings.

Based on the systematic analysis of the IPE data, a short report will be drafted and submitted to the WWCSC and CJI in the Autumn of 2021. The report will highlight key findings thematically, examining similarities and differences between case study areas and participant groups. A summary of IPE findings will also be included in the final report, due to be submitted in September 2022.

**Cost evaluation**

Costs will be estimated based on the delivery costs of the intervention. Each FDAC site manager will be provided with pro-forma to complete in Autumn 2021 covering costs incurred in the last twelve months. This will assign costs to different categories, such as staff costs, fixed costs (e.g. purchase of equipment), marginal costs (such as rent) and set-up
costs (where appropriate for newer sites, which may include staff recruitment and training costs).

Sites will be asked to provide this data for a one-year period. The set-up costs will be estimated only for sites that have launched since March 2020. Set-up costs will be averaged over three years to provide a more realistic estimate of the annual running costs of FDAC. This is because interventions tend to have higher costs in the first year of delivery that would otherwise provide an unrealistic estimate of what the ongoing costs for the intervention would be. Costs will be estimated from the perspective of the LA on a per-child basis by dividing the total annual cost by the number of children who go through FDAC care proceedings.

**Ethics & Participation**

Ethical clearance was sought from NatCen’s ethics committee in June 2020. Ethical approval was granted on 25th June 2020 subject to the condition of agreeing safeguarding procedures with Local Authorities and providing support for NatCen staff working on the evaluation.

Further ethical clearance will be requested from NatCen’s ethics committee for the IPE in December 2020, when plans and timings for fieldwork, (including the selection of case study areas) have been agreed. We will also seek ethical approval from the judiciary in order to conduct interviews with judges and magistrates for the IPE. Once case study areas have been decided, applications will be submitted to the relevant Head of Division or the Senior Presiding Judge, as stipulated in the Courts and Tribunals Judiciary guidance. We are experienced in seeking ethical approval to carry out research with members of the judiciary, which will help us to prepare applications and requests for these approvals.

**Registration**

The study has been pre-registered on the Open Science Framework on December 4th, 2020. The registration can be found here: [https://osf.io/w7zac](https://osf.io/w7zac).

**Data protection**

NatCen will be both a data controller and a data processor on this evaluation.

Local Authorities and FDAC sites will be data controllers for the data they provide for the impact evaluation, whilst NatCen will be a data processor. It is the responsibility of the data controller to decide on the legal basis for data sharing. At this stage we anticipate that the legal basis for data sharing is “legitimate interests” with special category personal processed for scientific research purposes. NatCen will be data controller for personal data collected as part of IPE. For all data collection encounters we conduct, we will provide detailed information on what participation entails and we will invite people to participate in the study with their fully, informed consent. All participants will be given a copy of the privacy notice which will provide further information on how we will use the data we collect for the IPE, what their rights are as research participants and how they can withdraw their data from the study if they wish.

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8 [https://www.judiciary.uk/publications/judicial-participation-in-research-projects/](https://www.judiciary.uk/publications/judicial-participation-in-research-projects/)

9 General Data Protection Regulation (GDPR) Article 6(1) and Article 9(2)[j]).
## Personnel

### Table 6 Evaluation team

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Wishart</td>
<td>Research Director, Evaluation</td>
<td>Principle Investigator and impact evaluation lead</td>
</tr>
<tr>
<td>Ellie Roberts</td>
<td>Research Director, Crime and Justice</td>
<td>IPE lead</td>
</tr>
<tr>
<td>Professor Judith Harwin</td>
<td>Professor of Socio-Legal Studies</td>
<td>Advisor for impact evaluation and IPE</td>
</tr>
<tr>
<td>Dr Bachar Alrouh</td>
<td>Advisor</td>
<td>Advisor for impact evaluation and IPE</td>
</tr>
<tr>
<td>Dr Kostas Papaioannou</td>
<td>Senior Researcher (Analyst), Evaluation</td>
<td>Impact evaluation</td>
</tr>
<tr>
<td>Sarah Sharrock</td>
<td>Senior Research, Crime and Justice</td>
<td>IPE</td>
</tr>
<tr>
<td>Ben Stocker</td>
<td>Researcher (Analyst), Evaluation</td>
<td>Impact evaluation</td>
</tr>
</tbody>
</table>

## Timeline

### Table 7 Timeline

<table>
<thead>
<tr>
<th>Dates</th>
<th>Activity</th>
<th>Staff responsible/ leading</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 2020</td>
<td>Evaluation registered on the Open Science Framework</td>
<td>Robert Wishart</td>
</tr>
<tr>
<td>March 2021</td>
<td>Data sharing agreements with all Local Authorities and sites</td>
<td>Robert Wishart</td>
</tr>
<tr>
<td>November - December 2020</td>
<td>Select case study areas, agree sampling strategy and submit ethical approval to Judiciary</td>
<td>Ellie Roberts</td>
</tr>
<tr>
<td>January 2020</td>
<td>Data sharing agreement and research approval from Cafcass</td>
<td>Robert Wishart</td>
</tr>
<tr>
<td>January – February 2021</td>
<td>Liaise with sites to set up fieldwork and begin recruitment</td>
<td>Ellie Roberts</td>
</tr>
<tr>
<td>March - July 2021</td>
<td>Conduct qualitative fieldwork</td>
<td>Ellie Roberts</td>
</tr>
<tr>
<td>June - August 2021</td>
<td>Data management and analysis</td>
<td>Ellie Roberts</td>
</tr>
<tr>
<td>August – September 2021</td>
<td>Report on IPE findings drafted and submitted to WWCSC and CJI</td>
<td>Ellie Roberts</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>Pro-forma provided to FDAC sites for cost analysis</td>
<td>Robert Wishart</td>
</tr>
<tr>
<td>Date</td>
<td>Activity</td>
<td>Responsible Party</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>June 2022</td>
<td>Data returned from all sites</td>
<td>Robert Wishart</td>
</tr>
<tr>
<td>June - August 2022</td>
<td>Analysis and reporting</td>
<td>Robert Wishart, Ellie Roberts</td>
</tr>
<tr>
<td>November 2022</td>
<td>Final report submitted</td>
<td>Robert Wishart, Ellie Roberts</td>
</tr>
</tbody>
</table>
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## Appendix A – FDAC Logic Model

### Inputs
- **FDAC team**
  - Budget for the team including:
    - Salaries and on costs
    - Non staff costs
    - Training
    - Travel
    - Testing
    - Equipment and accommodation

### Activities
- **Strategic activity**
  - Engagement with commissioners
  - Engagement with treatment services
  - Engagement with children
  - Services
  - Communications materials

- **Operational activity**
  - FDAC Team attendance at court
  - Pre-court meetings
  - Day assessment with each family in 1st week of proceedings
  - Team organise IPMs and and chair review IPMs, and file minutes
  - Team write initial parenting report, review reports and review parenting assessment report. minutes of meetings and circulate to all parties and court.
  - The FDAC team held regular key work, using all and other interventions.
  - The FDAC team chair Children’s Needs meeting within first 10 weeks, and file minutes.
  - Recruit, train and supervise parent mentors
  - Organise and ensure team attendance at reflective supervision
  - Drug treatment and testing
  - Child psychiatry

### Outputs
- **Budget and commissioning systems agreed**
- **Local leaflets and other materials regularly disseminated**
- **Minimum of 2 lawyers and Guardian forum every year**
- **FDAC link for treatment services, quarterly meetings**
- **Quarterly Steering groups held**
- **Quarterly Operational groups held**
- **FDAC Team including Judges, where possible to attend**
- **Training with NU every 4 months**
- **FDAC team hold in house training days every 6 months, such as VIG or testing**

### Interim outcomes
- **Professionals’ Knowledge/awareness/Day in**
  - More Key stakeholders have awareness that FDAC is up and running
  - More Key stakeholders understand the model (problem solving approach to care proceedings)
  - More champions for the model in local authority senior management and in the judiciary
  - More stakeholders are convinced of the benefits of the FDAC approach
  - Commissioners are convinced that FDAC should have ongoing funding

- **Parents’ outcomes in FDAC as opposed to normal proceedings**
  - More engagement of parents in the court processes and with treatment and other services
  - More parents are able to cease misusing substances and sustain their recovery
  - More parents are able to resume care of their children
  - More parents show improvement in their mental health
  - More parents and children are protected from the impact of domestic abuse
  - More improved relationships between parents and children even when children are not going to return home
  - More parents have insight into why they have not been reunited with their children

- **Court outcomes**
  - The team and judges are more skilled at working in line with the problem solving approach within timelines appropriate for children in care proceedings
  - Proceedings when children do not go home will end within the National and Local requirements around 28 weeks
  - More proceedings will end without a final contested hearing
  - More proceedings do not require any other externally funded experts, other than FDAC
  - More proceedings take place without a residential placement for similar type of cases

### Long term outcomes
- Proportion of children living with the same primary carer with whom they were living before the start of proceedings, at the end of proceedings
- Proportion of parents who have ceased substance misuse at end of proceedings
- Proportion of FDAC than comparison reunification parents with sustained cessation over the follow up period
- A proportion of FDAC than comparison reunifications parents who experienced experience no disruption to family stability over follow up period

### Procedural fairness experience

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**What Works for Children’s Social Care**

**Evaluation Protocol**

**Family Drug and Alcohol Courts**

**Evaluator: NatCen Social Research**

**Principal Investigator: Robert Wishart**
### Table 8  Outcomes map for implementation and process evaluation

<table>
<thead>
<tr>
<th>Outcome</th>
<th>When is it appropriate to measure?</th>
<th>How can it be collected?</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDAC team and the judiciary are better equipped and skilled to deliver all aspects of FDAC model as intended</td>
<td>When FDAC sites are operational</td>
<td>Interviews with FDAC staff and judiciary</td>
</tr>
<tr>
<td>More effective and informed multi-disciplinary assessment and development of plans to meet parents’ and children’s needs</td>
<td>When FDAC sites are operational</td>
<td>Interviews with FDAC staff, children’s services and judiciary</td>
</tr>
<tr>
<td>Judges, professionals and parents consider that the proceedings are fairer and based on clearer evidence than standard care proceedings</td>
<td>When FDAC sites are operational and parents have finished care proceedings</td>
<td>Interviews with FDAC staff, children’s services, judiciary and parents (including those who may have experienced ‘business-as-usual’ care proceedings)</td>
</tr>
<tr>
<td>FDAC team provide and broker more suitable monitoring, support, treatment and training</td>
<td>When FDAC sites are operational</td>
<td>Interviews with FDAC staff, judiciary and parents</td>
</tr>
<tr>
<td>Improved judicial oversight of parental capacity to change</td>
<td>When FDAC sites are operational</td>
<td>Interviews with FDAC staff, judiciary and parents</td>
</tr>
<tr>
<td>Improved relationships with local support organisations and more effective information sharing between organisations and partners</td>
<td>When FDAC sites are operational</td>
<td>Interviews with FDAC staff</td>
</tr>
<tr>
<td>Better feedback loop between professionals to share learning</td>
<td>When FDAC sites are operational</td>
<td>Interviews with FDAC staff</td>
</tr>
<tr>
<td>Parents understand what taking part in FDAC involves and are more engaged with court, treatment and other services</td>
<td>When FDAC sites are operational</td>
<td>Interviews with FDAC staff, judiciary and parents</td>
</tr>
<tr>
<td>Parents have an improved experience of court proceedings</td>
<td>When FDAC sites are operational</td>
<td>Interviews with parents</td>
</tr>
</tbody>
</table>
Table 8  Outcomes map for implementation and process evaluation

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>When FDAC sites are operational</th>
<th>Data Collection Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parents have increased agency over support options</td>
<td></td>
<td>Interviews with parents</td>
</tr>
<tr>
<td>Parents better skilled and equipped to access appropriate support</td>
<td></td>
<td>Interviews with FDAC staff, judiciary and parents</td>
</tr>
<tr>
<td>Parents increasingly convinced of the benefits of FDAC</td>
<td></td>
<td>Interviews with parents</td>
</tr>
<tr>
<td>Improved relationships between parents and children</td>
<td></td>
<td>Interviews with FDAC staff, judiciary and parents</td>
</tr>
</tbody>
</table>
Appendix D – Power calculation formulae

The formula used to estimate the power of the primary analysis are adapted from Dong and Maynard (2013). The MDES is calculated as follows:

\[ MDES = M_{K(J-2)-g_2} \left( \frac{\rho(1-R_2^2)}{P(1-P)JK} + \frac{(1-\rho)(1-R_2^2)}{P(1-P)JKn} \right) \]

Where:
- \( \rho \) is the intracluster correlation;
- \( R_1^2 \) and \( R_2^2 \) is the variance explained at level one and level two respectively;
- \( n \) is the average number of children per family
- \( J \) is the average number of families per Local Authority
- \( K \) is the number of Local Authorities

The multiplier, \( M_{K(J-2)-g_2} \) is calculated as follows:

\[ M_{K(J-2)-g_2} = T_1 + T_2 \]

Where \( T_1 \) (precision) and \( T_2 \) (power) are drawn from the inverse students' t-distribution as:

\[ T_1 = \alpha, K(J - 2) - g_2 \]
\[ T_2 = 2\beta, K(J - 2) - g_2 \]

Where \( g_2 \) is the number of covariates at level two, alpha is the type one error rate and beta is the type two error rate. We then convert the MDES to an odds ratio:

\[ OR = (MDES * \frac{\pi}{\sqrt{3}})^e \]

The relative risk ratio is then estimate using the prevalence of the outcome in control, \( \text{Prev}_C \):

\[ RRR = \frac{OR}{(1 - \text{Prev}_C) + (\text{Prev}_C * OR)} \]