Evaluating intensive family preservation programs: a methodological review

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Authors' objectives
To determine the adequacy of evaluations of family preservation services (FPS), which are designed to support families and prevent out-of-home placements of children at risk of abuse or neglect, and to assess the effectiveness of FPS at reducing out-of-home placements of children.

Searching
MEDLINE, ERIC, PsycLIT, Sociofile (OVID) and HealthPlan were searched from 1977 to 1993 for all English language publications, using the following keywords: 'family preservation', 'family-based services' and 'child abuse'. Unpublished studies were located by direct contact (mail or phone). The Annotated Directory of Family-based Services was also searched and letters were sent to 130 family preservation programmes.

Study selection
Study designs of evaluations included in the review
Randomised controlled trials (RCTs) and quasi-experimental studies that met the following three criteria for inclusion: (1) assessment of an intensive family preservation programme; (2) outcome data available in the report; and (3) with a comparison group.

Specific interventions included in the review
Intensive family preservation programme: family workers maintain intensive contact with 2 or 4 families at a time and provide home-based, short-term services, including case management, family counselling, improvement of communication skills, and provision of other concrete services such as financial assistance and transportation.

Participants included in the review
Children at risk of abuse or neglect, and referred to the state's child protection agencies, were included.

Outcomes assessed in the review
The rate of out-of-home placements for children was assessed.

How were decisions on the relevance of primary studies made?
The authors do not state how the papers were selected for the review, or how many of the authors performed the selection.

Assessment of study quality
The criteria of Chalmers et al. (see Other Publications of Related Interest) were adapted to determine the methodological quality of the evaluations. A 15-item questionnaire was used to examine three critical methodological components: assignment of families to the treatment groups (5 items); the adequacy of the description of the intervention (6 items); and outcome measures (4 items). According to the total score, a study was considered as either acceptable (at least 11 of 15 items), adequate (6 to 10 items), or unacceptable (0 to 5 items). Validity was assessed independently by two reviewers, and any disagreements were resolved by consensus.

Data extraction
The authors do not state how the data were extracted for the review, or how many of the authors performed the data extraction.

Methods of synthesis
How were the studies combined?
The studies were combined by a narrative description; the results from the individual studies were not quantitatively combined.

The relative risk (RR) of placement with 95% confidence intervals (CIs) was calculated for each study.

How were differences between studies investigated?
A narrative description of differences between the studies is presented.

Results of the review
Five RCTs (1,842 children) and 5 quasi-experimental studies (1,082 children) were included.

Based on the 15-point methodological criteria, 2 studies scored at least 11 (acceptable), 4 studies scored between 6 and 10 (adequate), and 4 studies scored 0 to 5 (unacceptable). Methodological shortcomings included poorly-defined assessment of risk, inadequate descriptions of the interventions provided, and non-blinded determination of the outcome.

In 5 quasi-experimental studies, rates of out-of-home placement ranged from 21 to 56% in the treatment groups and from 25 to 59% in the control groups. Only one quasi-experimental study found that the rates of placement was significantly lower in the treatment group than that in the control group (RR 0.67, 95% CI: 0.5, 0.9).

In 5 RCTs, rates of placement ranged from 24 to 43% in the treatment groups and from 20 to 57% in the control groups. Only one RCT found a statistically-significant result in favour of treatment (RR 0.75, 95% CI: 0.57, 0.99).

Authors' conclusions
Evaluation of family preservation programmes are methodologically difficult, and show no benefit in reducing rates of out-of-home placements of children at risk of abuse or neglect in 8 of 10 studies. Consistent, methodologically-rigorous evaluations are needed to determine the effectiveness of FPS and to guide social policy for high-risk children and their families.

CRD commentary
The review seems methodologically rigorous, although it does not state how decisions on relevance or data extraction were made.

Funding
Maternal and Child Health Bureau, grant number 9087; National Institute of Mental Health, grant number R01-MH48456.

Bibliographic details

PubMedID
8632942

Other publications of related interest
Indexing Status
Subject indexing assigned by NLM

MeSH
Adolescent; Child; Child Abuse /prevention & control; Child Welfare; Child, Preschool; Community Health Services; Evaluation Studies as Topic; Family; Family Therapy; Foster Home Care; Humans; Infant; Policy Making; Public Policy; Randomized Controlled Trials as Topic; Research Design; Risk Assessment; Risk Factors; Social Support; Social Work; Treatment Outcome

AccessionNumber
11996000766

Date bibliographic record published
30/11/1997

Date abstract record published
30/11/1997

Record Status
This is a critical abstract of a systematic review that meets the criteria for inclusion on DARE. Each critical abstract contains a brief summary of the review methods, results and conclusions followed by a detailed critical assessment on the reliability of the review and the conclusions drawn.