BMJ Global Health

The impact of cash transfers on mental health in children and young people in low-income and middle-income countries: a systematic review and meta-analysis

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To cite: Zimmerman A, Garman E, Avendano-Pabon M, et al. The impact of cash transfers on mental health in children and young people in low-income and middle-income countries: a systematic review and metaanalysis. *BMJ Global Health* 2021;**6**:e004661. doi:10.1136/ bmjqh-2020-004661

Handling editor Seve Abimbola

► Additional material is published online only. To view, please visit the journal online (http://dx.doi.org/10.1136/ bmjgh-2020-004661).

Received 4 December 2020 Revised 5 February 2021 Accepted 10 February 2021



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ABSTRACT

Introduction Although cash transfer programmes are not explicitly designed to improve mental health, by reducing poverty and improving the life chances of children and young people, they may also improve their mental health. This systematic review and meta-analysis assessed the evidence on the effectiveness of cash transfers to improve the mental health of children and young people in low-income and middle-income countries.

Methods We searched Pubmed, EBSCOhost, Scientific Electronic Library Online, ISI Web of Science and Social Sciences Citation Index and grey literature (from January 2000 to July 2020) for studies which quantitatively assessed the impact of cash transfers on mental health in young people (aged 0-24 years), using a design that incorporated a control group. We extracted Cohen's d effects size and used a random-effects model for the meta-analysis on studies that measured depressive symptoms, I² statistic and assessment of study quality. Results We identified 12116 articles for screening, of which 12 were included in the systematic review (covering 13 interventions) and seven in the meta-analysis assessing impact on depressive symptoms specifically. There was high heterogeneity (I²=95.2) and a high risk of bias (0.38, 95% Cls: -5.08 to 5.85; p=0.86) across studies. Eleven interventions (85%) showed a significant positive impact of cash transfers on at least one mental health outcome in children and young people. However, no study found a positive effect on all mental health outcomes examined, and the meta-analysis showed no impact of cash transfers on depressive symptoms (0.02, 95% Cls: -0.19 to 0.23; p=0.85).

Conclusion Cash transfers may have positive effects on some mental health outcomes for young people, with no negative effects identified. However, there is high heterogeneity across studies, with some interventions showing no effects. Our review highlights how the effect of cash transfers may vary by social and economic context, culture, design, conditionality and mental health outcome.

Key questions

What is already known?

- Poverty increases vulnerability to mental health problems in children and young people in lowincome and middle-income countries.
- ► Prior reviews have examined the impact of cash transfers on the mental health of adults, but none have specifically considered a broad range of mental health outcomes in children and young people.

What are the new findings?

- ► This review, which focused on children and young people, shows that cash transfers may positively impact mental health, with no evidence of negative effects on mental health.
- ► There was significant heterogeneity across studies and mental health outcomes.

What do the new findings imply?

- ➤ The heterogeneity found across studies suggests that the effects of cash transfers are likely to depend on the social, cultural and economic context in which they are implemented, as well as on their design and the role of conditionality.
- ► There is a need for high-quality randomised controlled trials that assess the impact of poverty reduction interventions on mental health in children and young people.

INTRODUCTION

Poverty, defined based on a range of social and economic indicators that capture multiple forms of deprivation, ¹² affects approximately 663 million³ children and young people in low/middle-income countries (LMICs), with potential detrimental effects on their physical and mental health. ^{4–8} Existing frameworks suggest that there is a 'vicious cycle'



whereby poverty increases the risk of mental illness, while mental illness increases the risk of future poverty. Since the late 1990s, cash transfer programmes emerged as a promising approach to reduce poverty, by providing financial resources to alleviate poverty in households, while at the same time stimulating behavioural change and human capital investment. 10-12 Cash transfers may be unconditional, which refer to money transfers without any actions required from beneficiaries; or conditional, where money is transferred to beneficiaries that meet specific behavioural requirements. As both conditional and unconditional cash transfer programmes became widespread in many LMICs, 13 studies have been conducted to examine their effects on multiple outcomes, such as education, health and nutrition, with some studies showing positive effects, 10 12 while others show null or negative effects. 14 15

Cash transfer programmes aim to improve outcomes associated with poverty, such as education, health and nutrition. 10 16 Although not explicitly designed to improve mental health, there are several mechanisms through which they may also impact the mental health of children and young people living in poverty. Cash transfers increase household income and may thus directly reduce financial strain and increase economic security. They may reduce family conflict associated with poverty and financial stress, thus reducing mental health risks for all family members. Cash transfers may also reduce child labour and related exposures that place young people at risk of mental health disorders. On the other hand, these programmes often involve relatively small cash benefits, which may be insufficient to generate changes in mental health. Improvements in the financial situation of the household may not translate into quality of life improvements for children and young people, thus having limited effects on their mental health. In addition, conditional cash transfers may increase family stress associated with the pressure to meet conditionalities.

Studies on the impact of cash transfers have typically focused on key targeted outcomes such as educational attainment and healthcare use. 10 16 Only recently, studies have started to examine the impact of cash transfers on mental health, but the evidence has so far been mixed. 81718 While some studies suggest that conditional cash transfers increase psychological distress, ¹⁹ other studies suggest that they may have positive effects on mental health, ²⁰ by increasing social support, reducing exposure to domestic violence and improving physical health. Few studies have assessed their impact on the mental health of children and young people (ages 0-24 years), with most studies focusing on adults.²¹ Focusing on young people is important because most mental health problems have their origin in adolescence or early adulthood.²² In addition, an extensive literature suggests that mental health problems during adolescence may have profound negative impacts on their educational, social and economic outcomes as they reach adulthood. 23 24 Therefore, cash transfers during this period may be critical to breaking the cycle of poverty and mental health that emerges later in life.

A review by Lund and colleagues in 2011¹⁸ identified only five studies from 2007 to 2009 and concluded that their effect on mental health was mixed. Pega and colleagues concluded that there was insufficient evidence to state that unconditional cash transfers had an impact on depression among children and adults in LMICs.²⁵ However, this review was restricted to studies that measured depressive symptoms only and had the main goal to assess broader results on health services use and health outcomes, rather than mental health specifically. In a recent review of 37 studies, McGuire and colleagues²⁶ reported a positive impact of cash transfers on mental health and well-being, while Ridley and colleagues⁹ reported positive effects on mental health in a review of 12 cash transfer studies. However, these reviews focused mostly on adults, and no recent review has focused on children and young people in LMICs.

This systematic review and meta-analysis was conducted as part of the CHANCES-6 study, which focuses on understanding the relationship between poverty interventions, mental health and the life chances of children and young people in six LMICs.²⁷ The primary objective of this study was to review the literature on the effect of cash transfers programmes on the mental health of children and young people (0–24 years old) in LMICs. The secondary objective was to understand whether different types of cash transfer programmes have different effects on children and young people's mental health.

METHODS

This review was conducted according to Preferred Reporting Items for Systematic Reviews and Metaanalyses guidelines, ²⁸ and pre-registered on PROSPERO (CRD42020168227).

Inclusion criteria

Our focus was on quantitative studies that assessed the effect of a cash transfer intervention on mental health outcomes in children and young people. We only included papers that reported interventions taking place in an LMIC, as defined by the World Bank at the time the study was published. Studies were included if published in any language from 2000 to the present, as most cash transfer programmes started in the late 1990s and few studies on their impact on mental health were published before 2000.

Intervention

Interventions were only deemed appropriate for inclusion if they (a) were 'targeted' anti-poverty interventions, defined as anti-poverty policies that strive to target poor people as the direct beneficiaries to reduce monetary poverty (income or consumption poverty) and/or some dimension of poverty (eg, education, employment or housing materials) and (b) involved a direct cash transfer, such as and including: conditional and unconditional



cash transfers, microfinance, loans, debt management and economic strengthening using matched savings. Saving-led economic strengthening interventions differ from traditional cash transfers in that the amount of money transferred depends on how much participants save, whereas, in traditional cash transfer programmes, families do not have to save any money to receive cash transfers. The money from matched-savings interventions is often a smaller amount compared with cash transfers and is typically directed towards specific purposes such as education and family micro-enterprise development.

Outcomes measures

Studies were considered if they included a measure of: (a) mental health or well-being from parent-reported or selfreport questionnaires; (b) a biomarkers associated with mental health (eg, salivary cortisol measures of stress) or (c) diagnoses of mental health conditions, as defined by the WHO International Classification of disease (ICD-11), from either parent-report or self-report questionnaires or psychiatric diagnosis from a medical professional. Mental health and well-being outcomes included but were not limited to symptoms or diagnoses of: mood disorders; anxiety disorders; post-traumatic stress disorder (PTSD); substancerelated disorders; feeding and eating disorders; psychotic disorders; personality disorders; behavioural problems; selfesteem; confidence; resilience; self-efficacy; future outlook and hopefulness. Studies were only included if they provided a direct comparison of mental health outcomes for treatment and control groups or pre-intervention and post intervention outcomes.

Participants

As this review aimed to assess the effect of cash transfer interventions on the mental health of children, adolescents and young adults, we only included studies that included an estimate of the impact on mental health for those below 25 years. Given the limited literature on the impact of cash transfers on mental health, we wanted to make sure to include all mental health outcomes for all ages of children and young people. We included programmes where children were either direct beneficiaries (ie, programmes targeted to children) or where they were members of a household that received a transfer (ie, household included at least one person receiving a transfer).

Study design

We included studies that compared cash transfers to an explicit control group, including individual or cluster randomised controlled trials (RCTs) and non-randomised evaluations involving both a control and treatment group. To assess the impact of cash transfers over time, we only included longitudinal studies (with a control group).

Exclusion criteria

Cross-sectional studies and studies that did not include a control group were excluded. We excluded those that did not provide a statistical comparison of interventions, or pre-intervention and post intervention outcomes for non-RCTs. We also excluded studies on interventions that did not involve a cash transfer, even if they involved in-kind transfers, such as food or relief nutrition, employment and educational interventions.

Search strategy

Academic databases

We searched published peer-reviewed journal articles and working papers in the following electronic databases from 2000 to the present: Pubmed (Medline and PubMed Cochrane Central), EBSCOhost (Econlit, the Cumulative Index to Nursing and Allied Health Literature, PsycINFO, Africa Wide Information, Medline), the Scientific Electronic Library Online, ISI Web of Science and Social Sciences Citation Index. We used Medical Subject Heading (MeSH) terms or similar thesaurus/ indexing terms in databases that do not use MeSH. We also searched using non-MeSH/other index terms, for recent articles without MeSH/other indexing terms yet, and for articles with misspelt MeSH/other indexing terms. An extensive list of all MeSH and non-MeSH search terms for each concept and database included in the final search is detailed in online supplemental material 1. We screened the reference lists of all included studies and contacted authors of included studies and recent relevant systematic reviews 92526 for additional relevant publications.

Grey literature and working papers

We conducted a separate structured search through the EconPapers database via Research Papers in Economics that catalogues journal articles and working papers. In addition, we conducted a specific structured search of Google Scholar between 2000 and 2020. The search strategy was based on similar reviews of the effect of cash transfer interventions on health, ^{12 25 29} and included key terms related to 'mental disorders' (including specific disorders, listed above) and 'mental wellbeing, 'cash transfer schemes', 'low- and middle-income countries' and 'randomized controlled trials'.

Post hoc backward and forward citation search

In January 2021, following Cochrane standards,³⁰ we conducted backward and forward citation searches using a manual approach via Google Scholar on all included studies and relevant systematic reviews.^{9 25 26} This involved assessing reference lists from all studies, and all papers that have since cited these studies.

Selection strategy

The screening tool Covidence was used for the screening and management of articles. Two reviewers (AZ and EG) screened study eligibility and irrelevant peer-reviewed articles were excluded based on title and abstract, while DMD and A-LP screened the titles and abstracts generated from the grey literature search. Full-text articles were subsequently reviewed by AZ and EG to determine eligibility for data extraction. Before proceeding to the full-text review and the data extraction stages, any

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disagreements on eligibility were discussed and resolved by mutual consent, in consultation with a third author (CL). Reviewers only proceeded to the next stage once 100% agreement was reached. Non-English language papers were only translated after the title and abstract had been tested for inclusion by authors fluent in the language.

Where multiple articles reported data from the same study population, the article with the most comprehensive data was used in the analysis. In cases where the articles reported on the same intervention but with different timeframes or subgroups (eg, by sex or age), all articles were included.

Data extraction

Data extraction was conducted by two reviewers (AZ and EG) using an adapted version of the Cochrane Public Health Group's data extraction form, ³¹ which was expanded for the intervention perspective involved in this review. The reviewers checked and resolved all discrepancies between their data extraction forms. Details of data extraction can be found in the online supplemental material 1.

Assessment of risk of bias

To assess study quality of RCTs, we used the Cochrane Collaboration's 'Risk of Bias' tool. ³² Reviewers judged the overall risk of bias based on a fixed set of domains focusing on different aspects of study design, including selection bias, performance bias, detection bias, attrition bias, reporting bias and other source of bias including misclassification, confounding and reverse causation. Each domain was assigned to have a high, low or unclear risk of bias. The same tool was used for non-RCTs, which were ranked as high risk for selection bias. We used Egger's test to assess publication bias. ³³

Data analysis and narrative synthesis

First we used narrative synthesis to present a qualitative report on the effect of cash transfer interventions on mental health outcomes in children and young people. We assessed whether groups of studies differed in relation to outcome, design, conditionality (unconditional vs conditional), age groups (older vs younger children), cash volume, beneficiary (children vs caregiver/household) and country.

Meta-analysis

As there was high heterogeneity between the mental health outcomes used, we decided a priori to only run the meta-analysis on studies that measured the same mental health outcome. A meta-analysis was performed where more than four studies measured the same mental health outcome. Thus, we carried out a meta-analysis on studies that measured depressive symptoms. Seven of the nine interventions that measured depressive symptoms were suitable for inclusion in the meta-analysis. All analyses were conducted using Stata V.16. We converted

association parameters and SD into Cohen's d effect sizes (ES), defined as:

$$d = \frac{\widetilde{Y}_t - \widetilde{Y}_c}{s_p} = \frac{D}{S_p}$$

where \tilde{Y}_t and \tilde{Y}_c are the mean outcomes of the treatment and control groups, respectively, and S_p is the mean SD from the treatment and control groups. For most studies, the outcome means were not reported and instead the unstandardised treatment effect is reported as a treatment effect parameter estimate; in these cases, D reflects the unstandardised treatment effect estimate.

In studies where the SDs were not reported, SEs were used to calculate SD. When the SEs were not reported, CIs were used to calculate SEs, using the formula:

SD =
$$\frac{\sqrt{\text{Nx}(\text{upper CI-lower CI})}}{3.92}$$

Heterogeneity was assessed using standardised effect sizes to calculate the I^2 statistic and χ^2 tests. Due to heterogeneity between studies, we used a random-effects approach and performed sensitivity analyses. In the first sensitivity analysis, we excluded studies that were not RCTs; in the second, we excluded studies that were economic strengthening interventions, which involved smaller cash transfers with the aim of encouraging savings using matched savings accounts. Finally, we ran a random-effect meta-regression analysis to evaluate factors (sample size, country, cash volume, programme duration, design or conditionality) that could account for heterogeneity between studies of depressive symptoms only, based on a 5% significance level (p<0.05). Pooled effect sizes for depressive symptoms were then estimated.

RESULTS

The search of academic databases yielded 4773 papers published in English, Spanish, French and Portuguese, of which 13 were eligible for inclusion in the review (figure 1). In addition, the second search yielded 7339 papers retrieved from the grey literature, of which four studies were included in the review. The backwards and forwards citation searches yielded four papers, of which one was eligible for inclusion in the review. All searches combined resulted in a total of 19 articles on 13 different interventions in nine countries.

Where the same intervention and outcomes were reported multiple times, only one paper was included in the analysis. There were six papers generated from the Bridges to Future Intervention in Uganda, ^{34–39} including one paper by Tozan *et al*, ³⁹ which summarised all results from the previous papers, and thus was the only one included in the analysis. Two papers reported on Kenya's Cash Transfer Programme for Orphans and Vulnerable Children ⁴⁰ ⁴¹ and both reported the same outcomes in adolescents. We chose to include Kilburn *et al* ⁴⁰ in the analysis, as they reported the effect size of the cash transfer on depressive symptoms. Two papers presented findings from Atención, a crisis cash transfer in Nicaragua with identical outcomes, so the later one was included

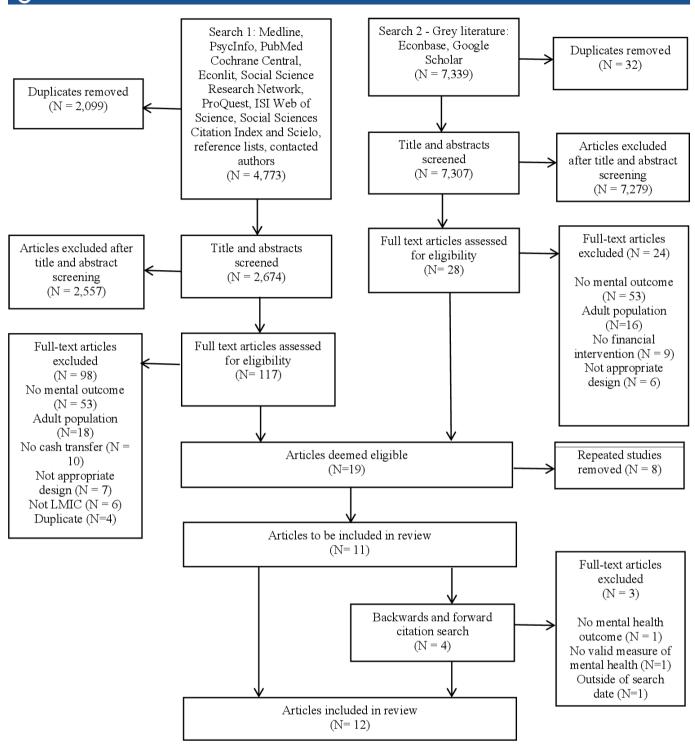


Figure 1 Study selection. LMIC, low/middle-income country.

(Marcos et al., 2011). Two papers were from the cash transfer programme Oportunidades in Mexico, both were included as they measured different mental health outcomes: behavioural problems⁴² and cortisol responses to stress.⁴³ Two papers reported the same outcomes from the same interventions in Malawi^{44 45} and the later paper by Baird *et al*⁴⁵ was included as this paper also included longer-term mental health outcomes.

Thus, 12 articles were included in the review, reporting on 13 interventions, as one paper assessed two different interventions (one conditional and one unconditional). The key details of each study are listed in table 1. Overall, the included studies involved 43 861 participants from Latin American or African regions: two in Mexico, 42 43 Malawi 45 46 and Kenya, 40 47 and one in Uganda, 39 Liberia, 48 Ecuador, 49 Nicaragua, 50 South Africa 51 and Cambodia. 52 All studies were published in 2007 or later. Eight papers focused on adolescents and young adults aged 11–22 years and four focused on younger children under 5 years. Follow-up varied between 1 and 10 years. Nine

Table 1 Su	ummary of s	tudy designs.	Age range gi	ven where mean	Summary of study designs. Age range given where mean age is not provided				
	Country	Design	Mean age (years)	Participants	Intervention and control	Conditionality	Mental health outcome	Follow-up (years)	Transfer amount (US\$)
Angeles et af ⁴⁶	Malawi	Cluster RCT	15-22	Families defined as 'ultra-poor' or labour constrained (n=1336 households)	Intervention: Malawi Social Cash Transfer Programme Transfer (n=652) Control: no transfer (n=640)	Unconditional	Center for Epidemiologic Studies Depression Scale: (CES-D-10)	2	Variable based on households' size and composition
Baird <i>et al⁴⁵ Malawi</i>	Malawi	Cluster RCT	15.3	School-age girls in the low-income Zomba District (n=2049)	Intervention: conditional cash transfer (n=46 enumeration areas) or unconditional cash transfer (n=27 enumeration areas). Control: no transfer (n=15 enumeration areas)	Conditional (80% school attendance) and unconditional (identical with no requirements on school attendance)	Psychological distress (anxiety, depressive symptoms and social dysfunction): General Health Questionnaire 12 (GHQ-12)	2	\$1-5 per month to girls \$4-10 per month to caregivers
Fernald and Mexico Gunnar ⁴³	d Mexico	Quasi- experimental	4.0	Children in households in low-income communities (n=1197)	Intervention: Oportunidades (n=554) Control: no transfer (n=762)	Conditional: compliance with school and clinic requirements	Baseline and responsivity salivary cortisol	3.5	Equivalent to approximentely 20% increase of household income
Filmer and Schady ⁵²	Cambodia Quasi- experir	Quasi- experimental	14.0	Families of children selected for a scholarship (n=3800 scholarships)	Intervention: Scholarship programme cash transfer (n=missing) Control: no transfer (n=missing)	Conditional: enrollment, regular attendance and satisfactory grade progress	Psychological distress: General Health Questionnaire (GHQ-12)	1.5	\$45 or \$60 three times per year
Kilburn et af 40	Kenya	Individual RCT	9.0	Poor families taking care of orphans and vulnerable children (n=1540 households)	Intervention: Kenya's Cash Transfer Programme for Orphans and Vulnerable Children (n=1408). Control: non-cash transfer households from the same sub-location, and non-cash transfer households from a different sub-location control (n=598)	Unconditional	Depressive symptoms: CES-D-10	4	\$10 per month
									1

Table 1 Co	Continued								
	Country	Design	Mean age (years)	Participants	Intervention and control	Conditionality	Mental health outcome	Follow-up (years)	Transfer amount (US\$)
Kilburn et af ⁶¹	South Africa	Cluster RCT	5.5 5.	Young women between 13 and 20 years old enrolled in high school in low-income study location (n=2537)	Intervention: HIV Prevention Trials Network 068 which provided transfers to young women and their parents (n=1272) Control: no transfer (n=1261)	Conditional: 80% school days attendance	Depressive symptoms: CES-D-20 Power in relationships: 12-item sexual relationship power scale Hopefulness: 13-item Hope scale	<u>5</u>	\$20 per month
Macours et	Nicaragua	Macours et Nicaragua Cluster RCT	3–7	Children in low-income households between 0 and 83 months (n=4245)	Intervention: Atención a Crisis cash transfer with three arms: cash transfer vash transfer with vocational training and business skills training, and cash transfer with lump-sum payment toward business development (n=3002 households) Control: no transfer or training (n=1019 households)	Conditional on regular health check-ups for children ages 0–5	Behavioural Problems Index Social-personal subscale of the Denver Developmental Screening Test	8.0	15% of per capita expenditures
Özler et af ⁴⁸ Liberia	Liberia	Quasi- experimental	13.7	Adolescent girls and caregivers (n=84 villages, with 1216 eligible girls and 1132 caregivers).	Intervention: Girl Empower (GE), which provides a life skills curriculum to girls (n=393). The GE+ variation includes a cash incentive payment to caregivers for girls' participation in the programme (n=400) Control: no transfer or programme (n=383).	Unconditional	Self-esteem: 10- item Rosenberg Scale, Depressive symptoms and anxiety: 12-item Short Mood of Feelings Questionnaire PTSS: Children's Revised Impact of Event Scale	α	\$2 per month to girls, \$1.25 per month to caregivers
									Continued

Table 1 Cc	Continued								
	Country	Design	Mean age (years)	Participants	Intervention and control	Conditionality	Mental health outcome	Follow-up (years)	Transfer amount (US\$)
Ozer et al ⁴²	Mexico	Cluster RCT	5.2	Low-income households (n=506 communities)	Intervention: Oportunidades (n=778) Control: no transfer (n=263)	Conditional; prenatal care, baby care, immunisation, nutrition monitoring and supplementation, and participation in health, hygiene and nutrition education	Behavior Problems Index	3–5	\$130 (equivalent to appox. 20% increase of household income) every 2 months
Paxson and Ecuador Schady ⁴⁹	Ecuador	Quasi- experimental	3.3	Families with children in the lowest poverty index quintiles with at least one child under the age of 6 and no children ages six or above (n=17987)	Intervention: Bono de Desarrollo Humano (n=1479) Control: not offered the Bono until several years later (n=384)	Unconditional	Behavioural problems: Woodcock, Johnson Muñoz, Mccarthy tests Behavioural problems	2	\$15 per month
Shangani <i>et</i> Kenya af ⁴⁷	, Kenya	RCT RCT	14.2	Low-income households with at least one orphaned and vulnerable child under 17 years (n=665 from 300 households)	Intervention: Kenya's Cash Unconditional Transfer Programme for Orphans and Vulnerable Children (n=231). Control: non-cash transfer households from the same sub-location, and non-cash transfer households from a different sub-location Control (n=424)	Unconditional	Anxiety: 28- item Children's Manifest Anxiety Scale-Revised Depressive symptoms: 11-item Child Depression Inventory (CDI) PTSS: 28-item PTSD checklist Future outlook: single item question	ო	\$20 per month
									:

Table 1 Continued	Sontinued								
			Mean age				Mental health	Follow-up	Transfer
	Country	Design	(years)	Participants	Intervention and control	Conditionality	outcome	(years)	amount (US\$)
Tozan et al³3	Uganda	Cluster RCT 12.0	12.0	Children who identified as an AIDS orphan (lost one or both parents to AIDS); living within a family (broadly defined and not an institution or orphanage); and enrolled in grades 5–6 in a public primary school in the study region. (n=48 primary schools, 1410 children)	Children who identified as an the Future (n=487) and AIDS orphan (lost one or both parents strengthening and asset to AIDS); living accumulation with within a family savings matched on 1:1 (broadly defined rate (Bridges) or 2:1 rate and not an institution or control: usual care orphanage); services for school-going and enrolled in AIDS-affected children in grades 5–6 in a the region public primary (n=500) school in the study region. (n=48 primary schools, 1410 children)	Unconditional	Depressive symptoms: 27-item Child Depression Inventory and the 20-item Beck Hopelessness Scale. Self-concept: 20-item Tennessee Self-Concept Scale and the 29-item Youth Self-Efficacy Survey.	4	Bridges: 1:1 matched savings Bridges PLUS: 2:1 matched savings

PTSD, post-traumatic stress disorder; PTSS, post-traumatic stress syndrome; RCT, randomised controlled trial.

Table 2 The quality rating	of each study	based on the C	ochrane risk of bi	as assessment			
	Random sequence generation	Allocation concealment	Blinding (participants and personnel)	Blinding (outcome assessment)	Incomplete outcome data	Selective reporting	Other sources of bias
Angeles et al ⁴⁶	Unclear	Unclear	High risk	Unclear	Low risk	Low risk	Low risk
Baird et al ⁴⁵	Unclear	Unclear	Unclear	Unclear	Low risk	Unclear	Low rlsk
Fernald and Gunnar ⁴³	High risk	High risk	Unclear	Unclear	Unclear	High risk	High risk
Filmer and Schady ⁵²	High risk	High risk	Unclear	Unclear	Low risk	Unclear	Low risk
Kilburn et al ⁴⁰	Unclear	Unclear	Low risk	Unclear	Low risk	Unclear	Low risk
Kilburn et al ⁵¹	Unclear	Unclear	Unclear	Unclear	Unclear	Low risk	Unclear
Macours et al ⁵⁰	Low risk	Unclear	Unclear	Unclear	Unclear	Low risk	Low risk
Özler et al ⁴⁸	Unclear	Low risk	Unclear	Unclear	Low risk	Low risk	High risk
Ozer et al ⁴²	High risk	High risk	Unclear	Unclear	Low risk	Low risk	High risk
Paxson and Schady ⁴⁹	High risk	High risk	Unclear	Unclear	High risk	Unclear	High risk
Shangani et al ⁴⁷	High risk	High risk	Unclear	Unclear	Unclear	Low risk	High risk
Tozan et al ³⁹	Unclear	Unclear	Unclear	Unclear	Unclear	Low risk	High risk

studies were cluster or individual RCTs and four were non-randomised evaluations.

There were 11 cash transfers programmes $^{40424345-4749-52}$ and two economics trengthening programmes that matched savings in Uganda and Liberia. 3948 Of the 13 interventions, six were conditional $^{42434550-52}$ and seven were unconditional. $^{394045-49}$

A range of mental health outcomes were assessed among the 13 programmes, nine of which measured depressive symptoms or psychological distress, ³⁹ ⁴⁰ ⁴² ⁴⁵ ⁴⁸ ⁵¹ ⁵² four anxiety, ⁹ ³¹ ³² three psychological well-being ³⁹ ⁴⁷ ⁵¹ (including future outlook, well-being, self-concept/esteem and hopefulness), three childhood social or behavioural functioning, ⁴² ⁴⁹ ⁵⁰ two PTSDs, ⁴⁷ ⁴⁸ one hopelessness ³⁹ and one stress. ⁴³ These outcomes were largely assessed using self-report questionnaires by the child/youth or sometimes by the caregiver in studies of younger children. One study assessed stress using biomarkers. ⁴³

Quality of bias assessment

The quality rating of each study is detailed in table 2. We judged the overall risk of bias to be moderately high. The key issues were lack of randomisation and blinding. Allocation concealment and blinding are not feasible for cash transfer studies as adult participants are aware of whether they receive the cash transfer or not, although arguably many children and adolescents may not be aware as the transfer is made to the parents. Selective reporting was often unclear due to lack of published protocols. Several studies were classified as high risk on other sources of bias due to issues involving outcome (eg, number of cortisol measurements), lack of controlling for potential confounders for non-randomised controlled studies,⁴³ use of non-validated questionnaires to measure mental health outcomes³⁹ 42 47 48 or exclusion of children with older siblings. 49 Egger's test for studies included in the

meta-analysis did not show a significant publication bias (0.38, 95% CIs: -5.08 to 5.85; p=0.86).

The mental health effects of these interventions are summarised in table 3. A total of 11/13 (85%) of interventions reported a significant positive effect on at least one measure of mental health, ^{39 40 42 43 45–47 50–52} including one which had a poor quality rating, ⁴⁹ while only two studies, both of which were quasi-experiments found no effect on any measure. ^{48 49} Of the seven studies ^{39 42 45 47 50 51} that measured multiple outcomes, all reported mixed effects of the intervention, with none reporting a positive effect on every mental health outcome. No studies reported a negative effect on mental health.

Of the 10 interventions that measured depressive symptoms, five—of which four were unconditional and one was conditional, and all but one were conducted in Africa—reported positive small to large effects (Cohen's d ranging from 0.02 to 0.76) 40 45 46 52 and five—of which three were conditional, two were unconditional and one was conducted in South America—reported no effect. 39 42 47 48 51 Two of the studies that reported no effect were matched savings programs, 39 48 rather than traditional cash transfers, and the study by Özler and colleagues used a quasi-experimental design.

Of the four that measured anxiety,⁴⁵ ⁴⁷ ⁴⁸ three cash transfer studies—of which one was conditional and two were conditional—reported a positive, small effect (Cohen's d ranging from 0.06 to 0.28)⁴⁵ ⁴⁷ and the matched-savings study reported no effect.⁴⁸ All were conducted in Africa. Of the three studies that measured psychological well-being,³⁹ ⁴⁷ ⁵¹ all three reported positive small to large effects (Cohen's d ranging from 0.26 to 0.80). One was unconditional, one was conditional and one was an unconditional matched-savings intervention and all were conducted in Africa. Of the three studies that measured social/behavioural functioning⁴² ⁴⁹ ⁵³ two

Summary of study outcomes included in review. Findings are unadjusted as presented in the paper and CIs are only included where reported. Effect sizes presented are mean change in outcome Table 3

	Change in effect	Psychological distress and depressive symptoms	Psychological well-being	Social/behavioural functioning
Angeles et al⁴ ⁶	Improved	Depressive symptoms (–2.05, p<0.01) and depressive symptoms (–0.15, p<0.01)		
Baird <i>et al</i> ⁴⁵ — Conditional	Improved (psychological distress)	Reduction psychological distress (-0.07, SE=0.03, p<0.05)		
Baird <i>et al</i> ⁴⁵ — Unconditional	Improved (psychological distress)	Reduction in psychological distress (-0.14, SE=0.05, p<0.01)		
Fernald and Gunnar ⁴³	Improved	Effect on salivary cortisol (-0.12, 95% CI: -0.19 to -0.05; p<0.0001)		
Filmer and Schady ⁵²	Improved	Effect onpsychological distress (0.03, SE: 0.01, p<0.01)		
Kilburn et al ⁴⁰	Improved	Effect on depressive symptoms (0.79, 95% CI: 0.63 to 0.99; p<0.01)		
Kilburn <i>et af⁵¹</i>	Not improved (depressive symptoms) Improved (power in sexual relationships and hopefulness) in poorest women	No effect on depressive symptoms (-0.02, SE: 0.03, p>0.05)	Effect on sexual relationship power scores (0.28, SE=0.10, p<0.01), greater hope (0.14, SE: 0.07, p<0.05) in poorest women	
Macours et af ⁶⁰	Improved (socio-emotional functioning) Not improved (behavioural problems)			Effect of intervention on sociopersonal outcomes (0.10, SE: 0.05, p<0.01) No effect on behavioural problems (-0.02, SE: 0.06, p>0.05)
Özler et al ⁴⁸	Not improved	No effect on psychosocial outcomes (0.24, SE: 0.64, p>0.05)		
Ozer et af ⁴²	Not improved (anxiety/ depressive symptoms or total effects) Improved (aggressive/ oppositional problems)	No effect on anxiety/depressive symptoms (-0.29, 95% CI: -0.70 to 0.13; p=0.18) or total symptoms (-0.71, 95% CI: -1.42 to 0.01; p=0.05)		Effect on aggressive/oppositional problems (-0.42, 95% CI: -0.80 to -0.04; p=0.03)
Paxson and Schady ⁴⁹	Not improved			No effect on behavioural problems (0.11, SE: 0.06, p>0.05)

Continued

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Table 3 Continued				
	Change in effect	Psychological distress and depressive symptoms	Psychological well-being	Social/behavioural functioning
Shangani et al ⁴⁷	Not improved (depressive symptoms) Improved (PTSS, anxiety and future outlook)	Effect on anxiety (0.57, 95% CI: 0.42 Effect on positive future outlook to 0.78; p<0.001), and PTSS (0.50, (1.47, 95% CI: 1.08 to 1.99; 95% CI: 0.29 to 0.89; p<0.01). No effect on depressive symptoms (0.77, 95% CI: 0.47 to -1.27, p>0.05)	Effect on positive future outlook (1.47, 95% CI: 1.08 to 1.99; p<0.01)	
Tozan e <i>t al³</i> ³	Not improved (depressive symptoms) Improved (self-concept, self-efficacy and hopelessness)	Effect on depressive symptoms (-0.14, 95% CI: -0.32 to 0.03; p=0.10)	Effect on self-concept (0.26, 95% CI: 0.09 to 0.44; p<0.05), self-efficacy (0.26, 95% CI: 0.09 to 0.43; p<0.01) and hopelessness (-0.28, 95% CI: -0.43 to -0.12; p<0.05)	

reported a small positive effect (Cohen's d ranging from 0.10 to $0.42^{42\,50}$ and one found no effect, ⁴⁹ although one study used a quasi-experimental design and has a poor quality rating, hence results may indicate bias.

Out of all of the six conditional interventions, $^{42\,43\,45\,50-52}$ all six reported a positive effect on at least one mental health outcome (Cohen's d ranging from 0.02 to 0.77), and of the seven unconditional interventions, 39 40 45-49 five reported a positive effect on at least one mental health outcome (Cohen's d ranging from 0.10 to 0.80). Hence, when compared across conditionality, a greater percentage of conditional intervention studies reported a positive effect (100%) than unconditional intervention studies (71%). Likewise, a greater percentage of conditional interventions 45 52 (2/3—67%) reported a positive impact on depressive symptoms, compared with unconditional interventions 40 45 46 (3/7-43%). By contrast, only one study explicitly compared outcomes between conditional and unconditional cash transfer programmes.⁴⁵ This study found that unconditional interventions had a greater positive impact on psychological distress than conditional ones. However, effects of both programmes disappeared at the 5-year follow-up after the cash transfer had stopped. 45

There were nine studies that reported specific cash volume. Of the three studies with a transfer of \$20 per month or higher, $^{42\ 47\ 51}$ all three (100%) reported at least one significant positive effect. In comparison, three $^{40\ 45}$ of the five studies (60%) with transfers lower than \$20 per month $^{40\ 45\ 48\ 49}$ reported a positive effect.

Of the five studies in which children were beneficiaries, 39 45 48 51 four (80%) reported a positive effect on mental health. 39 45 51 Of the seven in which household/caregivers were the beneficiaries, 40 42 46 47 49 50 52 six (86%) reported a positive result. 40 42 46 47 50 52

Meta-analysis

Seven of the 10 interventions that measured depressive symptoms were suitable for inclusion in the meta-analysis. 39 40 42 $^{46-48}$ 51 The two conditional and unconditional programmes reported by Baird et at 45 and the study by Filmer and Schady 52 could not be included as individual sample sizes in each group were not provided, nor were effect sizes.

Results from the meta-analysis indicated a positive, but non-significant effect of interventions on depressive symptoms: the pooled Cohen's d effect size from the effects of cash transfer schemes on depressive symptoms was (0.02, 95% CI: –0.19 to 0.23; p=0.85), ranging from –0.24 to 0.40 (figure 2). However, 95% of the variation across estimates was due to heterogeneity between studies (I²=95.2). This suggests that treatment effect differences across studies are not random, which compromises the validity of the summary estimate.

The meta-regression analysis revealed that none of the factors considered on their own (sample size, country, cash volume, programme duration, design or conditionality) explained the high heterogeneity. To remove

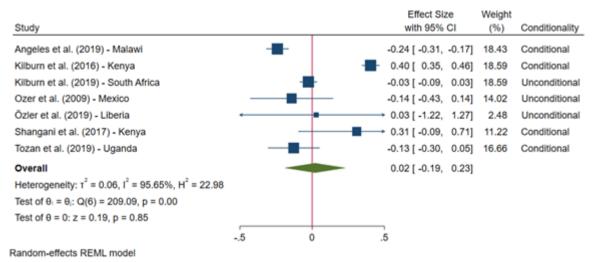


Figure 2 Forest plot comparing studies which used Cohen's d to assess the effect of cash transfers on depressive symptoms in young people. While the effect size is negative, reflecting a positive impact of the CT on reducing depression is non-

heterogeneity across studies, we ran a series of sensitivity analyses with subgroups. The first was conducted only among RCTs. A second sensitivity analysis was run among studies that were traditional cash transfers, which involved excluding the two economic strengthening programmes.^{39 48} The exclusion of these studies did not change the conclusion of the primary meta-analyses (data not shown). We also ran subgroup analyses comparing conditional^{51 54} and unconditional^{39 40 46-48} studies. The analysis had no significant subgroup effect (X²=0.38, p=0.54). However, with only two studies contributing to the conditional subgroup, it is unlikely that this analysis can be interpreted with confidence.

DISCUSSION

This study aimed to review the literature on the impact of cash transfers programmes on the mental health of children and young people in LMICs. Twelve articles, which assessed the impact of 13 programmes, were included in the review and narrative synthesis, and seven studies were included in the meta-analysis to assess the effect of cash transfers on depressive symptoms specifically.

Results from the narrative synthesis suggest that cash transfer programmes may improve some mental health outcomes in children and young people. In particular, 11 of 13 (85%) evaluations reported a positive effect on at least one measure of mental health in children and young people. On the other hand, the meta-analysis suggests that cash transfers had no effect on depressive symptoms among children and young people, although the small number of studies and high heterogeneity precludes firm conclusions, and no study found an effect on all mental health outcomes. It is important to note that studies found either positive effect or null effects but none found negative effects on mental health. This is important for policymakers, showing that there is no evidence of negative consequences of cash transfers for

the mental health of children and young people. Our findings suggest that social protection programmes can have a positive impact on mental health of young people. Benefits may be optimised through cross-collaboration, such as linking mental health interventions with cash transfers.

While there does not seem to be any difference in findings of studies in which children were beneficieries, as findings were comparable to studies where caregivers with beneficiaries, the volume of cash transferred does seem to be important. Our narrative synthesis showed 100% of studies with transfers at \$20 or higher per month reported a positive effect on mental health, whereas only 60% of studies with transfers lower than \$20 reported a positive effect. In the meta-analysis, one of the two studies that reported no effect on mental health was a matchedsavings programme, 48 in which the volume of cash transferred each month for matched-savings programme is often very small (\$2), compared with \$10-20 per month in traditional cash transfer programmes. ³⁹ 40 47 51 Further research should investigate whether the impact of cash transfers on youth mental health differs with cash volume, as this has important implications for policy. Policy decisions about the amount, duration and administration of cash transfers could also influence mental health, and optimising their role might benefit from cross-sectoral collaboration. Our findings support recent recommendations²⁷ for relatively low-cost policy changes, such as cash volume, targeting and predictability and duration of payments, which could enhance the mental health impacts of cash transfers for young people.

This review demonstrates the need for research into studies understanding the effects of the conditionality of cash transfers on mental health outcomes. Earlier studies that have directly compared conditional versus unconditional programmes suggest that conditional cash transfers have larger impacts for education, health and

living in poverty, and that effects might be very different for different countries, conditionality, volume of cash, age and mental health outcome. While this was beyond the scope of the current paper, further understanding of the mechanisms by which cash transfers influence mental health is necessary to understand whether these inconsistencies in findings reflect inconsistent effects on mental health, or inconsistent effects on the mechanisms by which changes to mental health occur. For instance, addressing the indirect mechanisms of cash transfers improving mental health through increasing household income, and directly through reducing child labour is an important area for future research. Our findings reflect that this is a relatively young field of research which still requires considerable attention. While nearly 10000 titles and abstracts were screened, only 13 papers were eligible for inclusion in this review, despite a our broad inclusion criteria. While there has been an increase in the number of RCTs assessing cash

transfers in LMICs since the review in 2011, 18 there is a clear need for high-quality randomised controlled trials of poverty reduction interventions to incorporate mental health as part of the oucomes assessed.

There are several ways that future studies in this field of research could be improved. First, studies should unpack the mechanisms that link cash transfers to mental health. Given that the mechanisms by which cash transfers affect mental health are currently unclear, further RCTs should seek to address this by exploring whether cash transfers causally impact mental health, and measuring the direct and indirect mechanisms by which changes occur. Second, we recommend that future trials include a conditional and unconditional arm to directly compare the effects of conditionality on mental health among children and young people. Efficiency and administrative costs associated with conditional versus unconditional programmes also need to be considered to inform future policies on poverty reduction and mental health. Third, little qualitative research or process evaluation findings were reported in the papers included in this review. Yet, mixed methods are essential to understand the role of culture and other local, contextual factors. Longitudinal qualitative methods should be applied alongside RCTs to provide in-depth understanding of how cash transfers impact the mental health and stress of recipients and their children. Finally, following recommendations by Pega and colleagues, ²⁵ steps must be taken to reduce the risk of bias in the field. Future studies should preregister protocols to reduce potential selective reporting. It is important that studies provide detailed assessments of the quality of evidence so risk of bias can be reliably assessed.

Strengths of this review include the fact that we reviewed a broad range of academic databases and grey literature, with no restrictions on publication format, period of time or language. However, there are several limitations to this review. For most mental health outcomes, a narrative synthesis was performed as less than four

nutrition outcomes. 13 Research also suggests that conditional cash transfers may be more appropriate in Latin America, and less appropriate in African contexts.⁵⁵ In contrast, we found that both conditional and unconditional programmes can have positive effects on mental health, but there were null findings from studies in both categories. Except for one study in Malawi, 45 none of the studies explicitly incuded multiple arms that directly compared conditional and unconditional transfers. In the one study that did, 45 unconditional transfers had a slightly greater positive impact on psychological distress than conditional transfers, but results vanished for both interventions 5 years after the programme had stopped. The majority of conditional cash transfer studies were from Central and South America, whereas studies on unconditional cash transfers and economic strengthening programmes were conducted in Africa. Overall, more research is needed to isolate the impact of conditional and unconditional cash transfer programmes on mental health.

While our findings suggest cash transfers may positively impact the mental health of young people, the meta-analysis found a null effect on depressive symptoms. This is likely to reflect heterogeneity across studies, programmes or regions.

Several differences across both study methods and programme designs may have contributed to the heterogeneity observed in our study. In terms of differences in methods, sample sizes, trial design (cluster, individual RCTs, quasi-experimental), outcomes and outcome measures (eg. self-report, clinician assessed, biomarkers) varied across studies. In terms of differences in the intervention, the amount of money received ranging from \$2 to \$20 a month, seven studies involved conditionalities, while seven were unconditional cash transfers, and the age of populations studied ranged from 3 to 22 years. 48 51

Notewithstanding potential methodological explanations, the heterogeneity across studies may also reflect genuine differences in the impact of cash transfers on mental health across different countries, cultures and mental health outcomes. Transfers may improve some mental health outcomes but not others—for example, there may be effects on childhood externalising conditions such as oppositional behaviour⁴² but not on internalising conditions such as depression. Cash transfers may also generate inconsistent results depending on whether they successfully improve underlying socioeconomic conditions and life chances for young people, such as improved educational attainment. It may also be that improvements on education, physical health or life chances alone do not consistently translate into mental health improvements,⁵⁶ and that more explicit components associated with mental health support are required in order to generate mental health improvements in young people.

Overall, results from this review suggest that cash transfers by themselves may not be a magic bullet to improve mental health in children and young people



studies measured the same mental health outcome. It was challenging to assess differences across studies of a small number, hence meta-analyses could not be carried out for specific mental health oucomes other than depressive symptoms. The financial poverty reduction schemes assessed in this review may also be heterogeneous in their focus on different aspects of poverty and target beneficiaries. Poverty is complex and multidimensional, and evidence suggests that the strength and direction of the relationship between poverty and mental health differs across poverty dimensions. As concluded in the recent review by Pega and colleagues, interventions that tackle only one dimension of poverty may not substantially improve mental health, particularly when not targeted to specific subgroups.

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Funding This study is an output of the CHANCES-6 study. This work was supported by the UKRI's Global Challenges Research Fund (ES/S001050/1). The support of the Economic and Social Research Council (ESRC) is gratefully acknowledged. MA-P is additionally supported by the ESRC Centre for Society and Mental Health at King's College London (ESRC Reference: ES/S012567/1).

Competing interests None declared.

Patient consent for publication Not required.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data sharing not applicable as no datasets generated and/or analysed for this study. Data extracted from studies are available directly from published work. Data extraction tables generated for the purposes of this review are available upon request.

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Supplementary

Search strategy for PUBMED (MEDLINE), 2000 to Present.

Key concepts: LMIC, cash transfer schemes, mental health, controlled designs

Concept	Keywords
LMIC	developing country[Title/Abstract] OR less developed country[Title/Abstract]
	OR third world country[Title/Abstract] OR under developed
	country[Title/Abstract] OR middle income country[Title/Abstract] OR low
	income country[Title/Abstract] OR middle-income country[Title/Abstract] OR
	low-income country[Title/Abstract] OR underserved country[Title/Abstract] OR
	under served country[Title/Abstract] OR deprived country[Title/Abstract] OR
	poor country[Title/Abstract] OR poorer country[Title/Abstract] OR poorest
	country[Title/Abstract] OR developing countries[Title/Abstract] OR less
	developed countries[Title/Abstract] OR third world countries[Title/Abstract]
	OR under developed countries[Title/Abstract] OR middle income
	countries[Title/Abstract] OR low income countries[Title/Abstract] OR middle-
	income countries[Title/Abstract] OR low-income countries[Title/Abstract] OR
	underserved countries[Title/Abstract] OR under served countries[Title/Abstract]
	OR deprived countries[Title/Abstract] OR poor countries[Title/Abstract] OR
	poorer countries[Title/Abstract] OR poorest countries[Title/Abstract] OR
	developing nation[Title/Abstract] OR less developed nation[Title/Abstract] OR
	third world nation[Title/Abstract] OR under developed nation[Title/Abstract]
	OR middle income nation[Title/Abstract] OR low income nation[Title/Abstract]
	OR middle-income nation[Title/Abstract] OR low-income
	nation[Title/Abstract] OR underserved nation[Title/Abstract] OR under served
	nation[Title/Abstract] OR deprived nation[Title/Abstract] OR poor
	nation[Title/Abstract] OR poorer nation[Title/Abstract] OR poorest
	nation[Title/Abstract] OR developing nations[Title/Abstract] OR less developed
	nations[Title/Abstract] OR third world nations[Title/Abstract] OR under
	developed nations[Title/Abstract] OR middle income nations[Title/Abstract]
	OR low income nations[Title/Abstract] OR middle-income
	nations[Title/Abstract] OR low-income nations[Title/Abstract] OR underserved
	nations[Title/Abstract] OR under served nations[Title/Abstract] OR deprived
	nations[Title/Abstract] OR poor nations[Title/Abstract] OR poorer
	nations[Title/Abstract] OR poorest nations[Title/Abstract] OR developing
	state[Title/Abstract] OR less developed state[Title/Abstract] OR third world
	state[Title/Abstract] OR under developed state[Title/Abstract] OR middle
	income state[Title/Abstract] OR low income state[Title/Abstract] OR middle-
	income state[Title/Abstract] OR low-income state[Title/Abstract] OR
	underserved state[Title/Abstract] OR under served state[Title/Abstract] OR
	deprived state[Title/Abstract] OR poor state[Title/Abstract] OR poorer state[Title/Abstract] OR poorest state[Title/Abstract] OR developing
	states[Title/Abstract] OR less developed states[Title/Abstract] OR third world states[Title/Abstract] OR under developed states[Title/Abstract] OR middle
	income states[Title/Abstract] OR low income states[Title/Abstract] OR middle-
	income states[Title/Abstract] OR low-income states[Title/Abstract] OR low-income states[Title/Abstract] OR
	underserved states[Title/Abstract] OR under served states[Title/Abstract] OR
	deprived states[Title/Abstract] OR poor states[Title/Abstract] OR poorer
	states[Title/Abstract] OR poorest states[Title/Abstract] OR developing
	population[Title/Abstract] OR less developed population[Title/Abstract] OR
	third world population[Title/Abstract] OR under developed
	population[Title/Abstract] OR middle income population[Title/Abstract] OR
	low income population[Title/Abstract] OR middle-income
	10.1 meome population[True/Trostatet] of mindie meome

population[Title/Abstract] OR low-income population[Title/Abstract] OR underserved population[Title/Abstract] OR under served population[Title/Abstract] OR deprived population[Title/Abstract] OR poor population[Title/Abstract] OR poorer population[Title/Abstract] OR poorest population[Title/Abstract] OR developing populations[Title/Abstract] OR less developed populations[Title/Abstract] OR third world populations[Title/Abstract] OR under developed populations[Title/Abstract] OR middle income populations[Title/Abstract] OR low income populations[Title/Abstract] OR middle-income populations[Title/Abstract] OR low-income populations[Title/Abstract] OR underserved populations[Title/Abstract] OR under served populations[Title/Abstract] OR deprived populations[Title/Abstract] OR poor populations[Title/Abstract] OR poorer populations[Title/Abstract] OR poorest populations[Title/Abstract] OR LMIC[Title/Abstract] OR LMICs[Title/Abstract] OR LMICS[Title/Abstract] OR LAMIC[Title/Abstract] OR poor[Title/Abstract] OR deprived[Title/Abstract] OR South America[Title/Abstract] OR Latin America[Title/Abstract] OR Latin Americas[Title/Abstract] OR Latin American[Title/Abstract] OR Central America[Title/Abstract] OR Central American[Title/Abstract] OR Africa[Title/Abstract] OR African[Title/Abstract] OR Asia[Title/Abstract] OR Asian[Title/Abstract] OR Afghanistan[Title/Abstract] OR Afghan[Title/Abstract] OR Albania[Title/Abstract] OR Albanian[Title/Abstract] OR Algeria[Title/Abstract] OR Algerian[Title/Abstract] OR American Samoa[Title/Abstract] OR Angola[Title/Abstract] OR Angolan[Title/Abstract] OR Antigua and Barbuda[Title/Abstract] OR Antiguans[Title/Abstract] OR Barbudans[Title/Abstract] OR Argentina[Title/Abstract] OR Argentine[Title/Abstract] OR Armenia[Title/Abstract] OR Armenian[Title/Abstract] OR Azerbaijan[Title/Abstract] OR Azerbaijani[Title/Abstract] OR Bahrain[Title/Abstract] OR Bahraini[Title/Abstract] OR Bangladesh[Title/Abstract] OR Bangladeshi[Title/Abstract] OR Barbados[Title/Abstract] OR Barbadian[Title/Abstract] OR Belarus[Title/Abstract] OR Belarusian[Title/Abstract] OR Belize[Title/Abstract] OR Belizean[Title/Abstract] OR Benin[Title/Abstract] OR Beninese[Title/Abstract] OR Bhutan[Title/Abstract] OR Bhutanese[Title/Abstract] OR Bolivia[Title/Abstract] OR Bolivian[Title/Abstract] OR Bosnia[Title/Abstract] OR Bosnian[Title/Abstract] OR Herzegovina[Title/Abstract] OR Herzegovinian[Title/Abstract] OR Bosnia and Herzegovina[Title/Abstract] OR Botswana[Title/Abstract] OR Batswana[Title/Abstract] OR Brazil[Title/Abstract] OR Brazilian[Title/Abstract] OR Bulgaria[Title/Abstract] OR Bulgarian[Title/Abstract] OR Burkina[Title/Abstract] OR Burkinabe[Title/Abstract] OR Burma[Title/Abstract] OR Burmese[Title/Abstract] OR Burundi[Title/Abstract] OR Burundian[Title/Abstract] OR Cape Verde[Title/Abstract] OR Cape Verdian[Title/Abstract] OR Cambodia[Title/Abstract] OR Cambodian[Title/Abstract] OR Cameroon[Title/Abstract] OR Cameroonian[Title/Abstract] OR Central African Republic[Title/Abstract] OR Central African[Title/Abstract] OR Chad[Title/Abstract] OR Chadian[Title/Abstract] OR Chile[Title/Abstract] OR Chilean[Title/Abstract] OR China[Title/Abstract] OR Chinese[Title/Abstract] OR Colombia [Title/Abstract] OR Colombian [Title/Abstract] OR Comoros[Title/Abstract] OR Comoran[Title/Abstract] OR Congo[Title/Abstract] OR Congolese[Title/Abstract] OR Costa Rica[Title/Abstract] OR Costa Rican[Title/Abstract] OR Côte d'Ivo*[Title/Abstract] OR Cote d'Ivo*[Title/Abstract] OR

 $Ivorian[Title/Abstract] \ OR \ Croatia[Title/Abstract] \ OR \ Croatian[Title/Abstract]$

OR Cuba[Title/Abstract] OR Cuban[Title/Abstract] OR Czech[Title/Abstract]

OR Djibouti[Title/Abstract] OR Dominican[Title/Abstract] OR

Ecuador[Title/Abstract] OR Ecuadorean[Title/Abstract] OR

Egypt[Title/Abstract] OR Egyptian[Title/Abstract] OR El

Salvador[Title/Abstract] OR Salvadorian[Title/Abstract] OR Equatorial

Guinea[Title/Abstract] OR Equatorial Guinean[Title/Abstract] OR

Equatoguinean[Title/Abstract] OR Eritrea[Title/Abstract] OR

Eritrean[Title/Abstract] OR Estonia[Title/Abstract] OR Estonian[Title/Abstract]

OR eSwatini[Title/Abstract] OR IiSwati[Title/Abstract] OR

Ethiopia[Title/Abstract] OR Ethiopian[Title/Abstract] OR Fiji[Title/Abstract]

OR Fijian[Title/Abstract] OR Gabon[Title/Abstract] OR

Gabonese[Title/Abstract] OR Gambia[Title/Abstract] OR

Gambian[Title/Abstract] OR Georgia[Title/Abstract] OR

Georgian[Title/Abstract] OR Ghana[Title/Abstract] OR

Ghanaian[Title/Abstract] OR Grenada[Title/Abstract] OR

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Guatemalan[Title/Abstract] OR Guinea[Title/Abstract] OR

Guinean[Title/Abstract] OR Guinea-Bissau[Title/Abstract] OR Guinea-

Bissauan[Title/Abstract] OR Guyana[Title/Abstract] OR

Guyanese[Title/Abstract] OR Haiti[Title/Abstract] OR Haitian[Title/Abstract]

OR Honduras[Title/Abstract] OR Honduran[Title/Abstract] OR

Hungary[Title/Abstract] OR Hungarian[Title/Abstract] OR India[Title/Abstract]

OR Indian[Title/Abstract] OR Indonesia[Title/Abstract] OR

Indonesian[Title/Abstract] OR Iran[Title/Abstract] OR Iranian[Title/Abstract]

OR Islamic Republic[Title/Abstract] OR Iraq[Title/Abstract] OR

Iraqi[Title/Abstract] OR Jamaica[Title/Abstract] OR Jamaican[Title/Abstract]

OR Jordan[Title/Abstract] OR Jordanian[Title/Abstract] OR

Kazakhstan[Title/Abstract] OR Kazakhstani[Title/Abstract] OR

Kenya[Title/Abstract] OR Kenyan[Title/Abstract] OR Kiribati[Title/Abstract]

OR I-Kiribati[Title/Abstract] OR Koran[Title/Abstract] OR

Korean[Title/Abstract] OR Kosovo[Title/Abstract] OR Kosovar[Title/Abstract]

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OR Laotian[Title/Abstract] OR Latvia[Title/Abstract] OR

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OR Libya[Title/Abstract] OR Libyan[Title/Abstract] OR

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OR Malian[Title/Abstract] OR Malta[Title/Abstract] OR

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Moroccan[Title/Abstract] OR Mozambique[Title/Abstract] OR

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OR Nigerian[Title/Abstract] OR Macedonia[Title/Abstract] OR

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OR Pakistani[Title/Abstract] OR Palau[Title/Abstract] OR

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Guinean[Title/Abstract] OR Paraguay[Title/Abstract] OR

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Peruvian[Title/Abstract] OR Philippines[Title/Abstract] OR

Filipino[Title/Abstract] OR Poland[Title/Abstract] OR Polish[Title/Abstract]

OR Puerto Rico[Title/Abstract] OR Puerto Rican[Title/Abstract] OR

Romania[Title/Abstract] OR Romanian[Title/Abstract] OR

Russia[Title/Abstract] OR Russian[Title/Abstract] OR Rwanda[Title/Abstract]

OR Rwandan[Title/Abstract] OR Samoa[Title/Abstract] OR

Samoan[Title/Abstract] OR São Tomé and Principe[Title/Abstract] OR São

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Senegalese[Title/Abstract] OR Serbia[Title/Abstract] OR

Serbian[Title/Abstract] OR Serbia and Montenegro[Title/Abstract] OR

Montenegrin[Title/Abstract] OR Seychelles[Title/Abstract] OR

Seychellois[Title/Abstract] OR Sierra Leone[Title/Abstract] OR Sierra

Leonean[Title/Abstract] OR Slovakia[Title/Abstract] OR Slovak[Title/Abstract]

OR Solomon Islands[Title/Abstract] OR Solomon Islander[Title/Abstract] OR

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Sudan[Title/Abstract] OR South Sudanese[Title/Abstract] OR Sri

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Nevis[Title/Abstract] OR Kittitian[Title/Abstract] OR Nevisian[Title/Abstract]

OR St. Lucia[Title/Abstract] OR Saint Lucia[Title/Abstract] OR Vincent and

the Grenadines[Title/Abstract] OR Vincentian[Title/Abstract] OR

Sudan[Title/Abstract] OR Sudanese[Title/Abstract] OR

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Republic[Title/Abstract] OR Syrian[Title/Abstract] OR

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OR Tanzanian[Title/Abstract] OR Thailand[Title/Abstract] OR

Thai[Title/Abstract] OR Timor-Leste[Title/Abstract] OR

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OR Tonga[Title/Abstract] OR Tongan[Title/Abstract] OR

Trinidad[Title/Abstract] OR Tobago[Title/Abstract] OR

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Tunisia[Title/Abstract] OR Tunisian[Title/Abstract] OR Turkey[Title/Abstract]

OR Turk[Title/Abstract] OR Turkmenistan[Title/Abstract] OR

Turkmen[Title/Abstract] OR Tuvalu[Title/Abstract] OR

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Ugandan[Title/Abstract] OR Ukraine[Title/Abstract] OR

Ukrainian[Title/Abstract] OR Uruguay[Title/Abstract] OR

Uruguayan[Title/Abstract] OR USSR[Title/Abstract] OR

Uzbekistan[Title/Abstract] OR Uzbek[Title/Abstract] OR Uzbekistani[Title/Abstract] OR Vanuatu[Title/Abstract] OR Ni-Vanuatu[Title/Abstract] OR Venezuela[Title/Abstract] OR Venezuelan[Title/Abstract] OR Vietnam[Title/Abstract] OR Vietnamese[Title/Abstract] OR West Bank[Title/Abstract] OR Gaza[Title/Abstract] OR Yemen[Title/Abstract] OR Yemenite[Title/Abstract] OR Yugoslavia[Title/Abstract] OR Yugoslavia[Title/Abstract] OR Zambian[Title/Abstract] OR Zambian[Title/Abstract] OR Zimbabwean[Title/Abstract] OR Zimbabwean[Title/Abstract]

Cash transfer

social assistance[Title/Abstract] OR social policy[Title/Abstract] OR social policies[Title/Abstract] OR social welfare[Title/Abstract] OR social protection[Title/Abstract] OR poverty alleviation[Title/Abstract] OR poverty reduction[Title/Abstract] OR family policy[Title/Abstract] OR family policies[Title/Abstract] OR family welfare[Title/Abstract] OR public assistance[Title/Abstract] OR public policy[Title/Abstract] OR public policies[Title/Abstract] OR cash transfer[Title/Abstract] OR cash transfers[Title/Abstract] OR conditional[Title/Abstract] OR unconditional[Title/Abstract] OR maternal welfare[Title/Abstract] OR financial support[Title/Abstract] OR experimental social security[Title/Abstract] OR poverty reduction scheme[Title/Abstract] OR financial transfer[Title/Abstract] OR payment transfer[Title/Abstract] OR payment transfers[Title/Abstract] OR monetary transfer[Title/Abstract] OR monetary transfers[Title/Abstract] OR money transfer[Title/Abstract] OR money transfers[Title/Abstract] OR financial measure[Title/Abstract] OR financial measures[Title/Abstract] OR cash measure[Title/Abstract] OR cash measures[Title/Abstract] OR payment measure[Title/Abstract] OR payment measures[Title/Abstract] OR monetary measure[Title/Abstract] OR monetary measures[Title/Abstract] OR money measure[Title/Abstract] OR money measures[Title/Abstract] OR financial incentive[Title/Abstract] OR financial incentive[Title/Abstract] OR cash incentive[Title/Abstract] OR cash incentives[Title/Abstract] OR payment incentive[Title/Abstract] OR payment incentives[Title/Abstract] OR monetary incentive[Title/Abstract] OR monetary incentives[Title/Abstract] OR money incentive[Title/Abstract] OR money incentives[Title/Abstract] OR financial allowance[Title/Abstract] OR financial allowances[Title/Abstract] OR cash allowance[Title/Abstract] OR cash allowances[Title/Abstract] OR payment allowance[Title/Abstract] OR payment allowances[Title/Abstract] OR monetary allowance[Title/Abstract] OR monetary allowances[Title/Abstract] OR money allowance[Title/Abstract] OR money allowance[Title/Abstract] OR financial exclusion[Title/Abstract] OR financial exclusion[Title/Abstract] OR cash exclusion[Title/Abstract] OR cash exclusions[Title/Abstract] OR payment exclusion[Title/Abstract] OR payment exclusions[Title/Abstract] OR monetary exclusion[Title/Abstract] OR monetary exclusions[Title/Abstract] OR money exclusion[Title/Abstract] OR money exclusions[Title/Abstract] OR financial reform[Title/Abstract] OR financial reforms[Title/Abstract] OR cash reform[Title/Abstract] OR cash reforms[Title/Abstract] OR payment reform[Title/Abstract] OR payment reforms[Title/Abstract] OR monetary reform[Title/Abstract] OR monetary reforms[Title/Abstract] OR money reform[Title/Abstract] OR money reforms[Title/Abstract] OR financial gain[Title/Abstract] OR financial gains[Title/Abstract] OR cash gain[Title/Abstract] OR cash gains[Title/Abstract] OR payment gain[Title/Abstract] OR payment gains[Title/Abstract] OR monetary gain[Title/Abstract] OR monetary gains[Title/Abstract] OR money gain[Title/Abstract] OR money gains[Title/Abstract] OR financial credit[Title/Abstract] OR financial credits[Title/Abstract] OR cash

	credit[Title/Abstract] OR cash credits[Title/Abstract] OR payment
	credit[Title/Abstract] OR payment credits[Title/Abstract] OR money
	credit[Title/Abstract] OR money credits[Title/Abstract] OR monetary
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	benefit[Title/Abstract] OR financial benefits[Title/Abstract] OR cash
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	benefit[Title/Abstract] OR payment benefits[Title/Abstract] OR monetary
	benefit[Title/Abstract] OR monetary benefits[Title/Abstract] OR money
	benefit[Title/Abstract] OR money benefits[Title/Abstract]
Mental health	mental health[Title/Abstract] OR mental disorders[Title/Abstract] OR mental
171011tal Health	disorder*[Title/Abstract] OR mental illness[Title/Abstract] OR mental
	illnesses[Title/Abstract] OR mental problem[Title/Abstract] OR mental
	problems[Title/Abstract] OR behaviour disorder[Title/Abstract] OR behaviour
	disorders[Title/Abstract] OR behavior disorder[Title/Abstract] OR behavior
	disorders[Title/Abstract] OR psychiatric mental disorder[Title/Abstract] OR
	psychiatric mental disorders[Title/Abstract] OR psychiatric
	diagnosis[Title/Abstract] OR psychiatric diagnoses[Title/Abstract] OR
	depression[Title/Abstract] OR anxiety[Title/Abstract] OR personality
	disorder[Title/Abstract] OR personality disorders[Title/Abstract] OR
	bipolar[Title/Abstract] OR schizophrenia[Title/Abstract] OR mood
	disorder[Title/Abstract] OR mood disorders[Title/Abstract] OR eating
	disorder[Title/Abstract] OR eating disorders[Title/Abstract] OR
	suicide[Title/Abstract] OR alcoholism[Title/Abstract] OR drinking
	behaviour[Title/Abstract] OR drinking behaviours[Title/Abstract] OR drinking
	behavior[Title/Abstract] OR drinking behaviors[Title/Abstract] OR drug
	taking[Title/Abstract] OR addiction[Title/Abstract] OR addictive
	behaviour[Title/Abstract] OR addictive behaviours[Title/Abstract] OR addictive
	behavior[Title/Abstract] OR addictive behaviors [Title/Abstract] OR positive
	mental health[Title/Abstract] OR wellbeing[Title/Abstract] OR well-
	being[Title/Abstract] OR self-esteem[Title/Abstract] OR self
Cantually 1	esteem[Title/Abstract] OR confidence[Title/Abstract]
Controlled	randomised[Title/Abstract] OR randomized[Title/Abstract] OR
design	randomisation[Title/Abstract] OR randomization[Title/Abstract] OR
	longitudinal[Title/Abstract] OR placebo[Title/Abstract] OR single
	blind[Title/Abstract] OR double blind[Title/Abstract] OR triple
	blind[Title/Abstract] OR treble blind[Title/Abstract] OR single-
	blind[Title/Abstract] OR double-blind[Title/Abstract] OR controlled
	before[Title/Abstract] OR before and after[Title/Abstract] OR randomised
	controlled trial[Title/Abstract] OR randomized controlled trial[Title/Abstract]
	OR RCT[Title/Abstract] OR RCTs[Title/Abstract] OR repeated
	measure[Title/Abstract] OR repeated measures[Title/Abstract] OR
	trial[Title/Abstract] OR follow-up assessment[Title/Abstract] OR follow up
	assessment[Title/Abstract] OR follow-up assessments[Title/Abstract] OR
	follow up assessments[Title/Abstract] OR follow-up study[Title/Abstract] OR
	follow up study[Title/Abstract] OR follow-up studies[Title/Abstract] OR follow
	up studies[Title/Abstract] OR secondary analyses[Title/Abstract] OR secondary
	analysis[Title/Abstract] OR intervention study[Title/Abstract] OR intervention
	studies[Title/Abstract] OR intervention effect[Title/Abstract] OR intervention
	effects[Title/Abstract] OR treatment evaluation[Title/Abstract] OR treatment
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	studies[Title/Abstract] OR cohort study[Title/Abstract] OR cohort
	studies[Title/Abstract] OR comparative group[Title/Abstract] OR comparative
	groups[Title/Abstract] OR comparison group[Title/Abstract] OR comparison
	groups[Title/Abstract] OR comparative study[Title/Abstract] OR comparative

studies[Title/Abstract] OR comparison study[Title/Abstract] OR comparison studies[Title/Abstract] OR control group[Title/Abstract] OR control groups[Title/Abstract]

MeSH terms

Concept	MeSH term
LMIC	"developing countries" [MeSH Terms] OR "medically underserved area" [MeSH Terms] OR "poverty areas" [MeSH Terms] OR "poverty" [MeSH Terms] OR "americas" [MeSH Terms] OR "africa" [MeSH Terms] OR "asia" [MeSH Terms] OR "south america" [MeSH Terms] OR "latin america" [MeSH Terms] OR "central america" [MeSH Terms]
	Terms] OR "guatemala" [MeSH Terms] OR "guinea" [MeSH Terms] OR "guinea-bissau" [MeSH Terms] OR "guyana" [MeSH Terms] OR "haiti" [MeSH Terms] OR "honduras" [MeSH Terms] OR "hungary" [MeSH Terms] OR "india" [MeSH Terms] OR "indonesia" [MeSH Terms] OR "iran" [MeSH Terms] OR "iraq" [MeSH Terms] OR "united kingdom" [MeSH Terms] OR "jamaica" [MeSH Terms] OR "jordan" [MeSH Terms] OR "kazakhstan" [MeSH Terms] OR "kenya" [MeSH Terms] OR "micronesia" [MeSH Terms] OR "korea" [MeSH Terms] OR "kosovo" [MeSH Terms] OR "kyrgyzstan" [MeSH Terms] OR "laos" [MeSH Terms] OR "latvia" [MeSH Terms] OR "liberia" [MeSH Terms] OR "libya" [MeSH Terms] OR "lithuania" [MeSH Terms] OR "madagascar" [MeSH Terms] OR "malawi" [MeSH Terms] OR "malaysia" [MeSH Terms] OR "indian ocean islands" [MeSH Terms] OR "malaysia" [MeSH Te
	"mali" [MeSH Terms] OR "malta" [MeSH Terms] OR "micronesia" [MeSH Terms] OR "mauritania" [MeSH Terms] OR "mauritius" [MeSH Terms] OR "comoros" [MeSH Terms] OR "mexico" [MeSH Terms] OR "micronesia" [MeSH Terms] OR "micro

iermis Ok motovota juteset iermis Jok microtessia jusesti iermis Jok "morocco" [MeSH Termis] OR "moratenegro" [MeSH Termis] OR "morocco" [MeSH Termis] OR "moratinis" [MeSH Termis] OR "mismis" [MeSH Termis] OR North Macedonia [MeSH Termis] OR "nigeria" [MeSH Termis] OR "patal" [MeSH Termis] OR "somada" [MeSH Termis]		Terms OD "moldove" [MaSU Terms OD "micronosia" [MaSU Terms] OD
"moroceco" [MeSH Terms] OR "norambique" [MeSH Terms] OR "myammar" [MeSH Terms] OR "namibia" [MeSH Terms] OR "micronesia" [MeSH Terms] OR "nepal" [MeSH Terms] OR "nicaragua" [MeSH Terms] OR "nicaragua" [MeSH Terms] OR "nicaragua" [MeSH Terms] OR "nicaragua" [MeSH Terms] OR "micronesia" [MeSH Terms] OR "mam [MeSH Terms] OR "palau" [MeSH Terms] OR "palauama" [MeSH Terms] OR "palauama" [MeSH Terms] OR "palauama" [MeSH Terms] OR "palauama" [MeSH Terms] OR "palauamama" [MeSH Terms] OR "palauamama" [MeSH Terms] OR "palauamama" [MeSH Terms] OR "palauamama" [MeSH Terms] OR "russia" [MeSH Terms] OR "russia" [MeSH Terms] OR "samaa" [MeSH Terms] OR "samaa" [MeSH Terms] OR "samaa" [MeSH Terms] OR "samaa" [MeSH Terms] OR "serbia" [MeSH Terms] OR "senegal" [MeSH Terms] OR "serbia" [MeSH Terms] OR "senegal" [MeSH Terms] OR "serbia" [MeSH Terms] OR "sidaua" [MeSH Terms] OR "sidaua" [MeSH Terms] OR "sidaua" [MeSH Terms] OR "south sudan "[MeSH Terms] OR "sidaua" [MeSH Terms] OR "tidauama" [MeSH Terms] OR "sidaua" [MeSH Terms] OR "sidaua" [MeSH Terms] OR "tidauama" [MeSH Te		Terms] OR "moldova" [MeSH Terms] OR "micronesia" [MeSH Terms] OR
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OR "alcoholism" [MeSH Terms] OR "behavior" [MeSH Terms] OR "substance-related disorders" [MeSH Terms] AND "feeding and eating disorders" [MeSH Terms] OR "schizophrenia" [MeSH Terms] OR "personality disorders" [MeSH Terms] OR "depressive disorder" [MeSH Terms] OR "psychiatry" [MeSH Terms] OR "wellbeing" [MeSH Terms] Controlled design		"behavioral symptoms" [MeSH Terms] OR "child behavior" [MeSH Terms] OR
related disorders" [MeSH Terms] AND "feeding and eating disorders" [MeSH Terms] OR "schizophrenia" [MeSH Terms] OR "personality disorders" [MeSH Terms] OR "depressive disorder" [MeSH Terms] OR "psychiatry" [MeSH Terms] OR "wellbeing" [MeSH Terms] OR controlled design		"drinking behavior" [MeSH Terms] OR "drug-seeking behavior" [MeSH Terms]
related disorders" [MeSH Terms] AND "feeding and eating disorders" [MeSH Terms] OR "schizophrenia" [MeSH Terms] OR "personality disorders" [MeSH Terms] OR "depressive disorder" [MeSH Terms] OR "psychiatry" [MeSH Terms] OR "wellbeing" [MeSH Terms] OR controlled design		OR "alcoholism" [MeSH Terms] OR "behavior" [MeSH Terms] OR "substance-
Terms] OR "schizophrenia" [MeSH Terms] OR "personality disorders" [MeSH Terms] OR "depressive disorder" [MeSH Terms] OR "psychiatry" [MeSH Terms] OR "wellbeing" [MeSH Terms] OR controlled clinical trial [MeSH Terms] OR "random allocation" [MeSH Terms] OR controlled clinical trial [MeSH Terms] OR "cohort studies" [MeSH Terms] OR "randomized controlled trials as topic" [MeSH Terms] OR "non-randomized controlled trials as topic" [MeSH Terms] OR "longitudinal studies" [MeSH Terms] OR "clinical trials as		
Terms] OR "depressive disorder" [MeSH Terms] OR "psychiatry" [MeSH Terms] OR "wellbeing" [MeSH Terms] Controlled design		
Terms] OR "wellbeing" [MeSH Terms] Controlled		
Controlled "random allocation" [MeSH Terms] OR controlled clinical trial [MeSH Terms] OR "cohort studies" [MeSH Terms] OR "randomized controlled trials as topic" [MeSH Terms] OR "non-randomized controlled trials as topic" [MeSH Terms] OR "longitudinal studies" [MeSH Terms] OR "clinical trials as		
design OR "cohort studies" [MeSH Terms] OR "randomized controlled trials as topic" [MeSH Terms] OR "non-randomized controlled trials as topic" [MeSH Terms] OR "longitudinal studies" [MeSH Terms] OR "clinical trials as	Controlled	
topic"[MeSH Terms] OR "non-randomized controlled trials as topic"[MeSH Terms] OR "longitudinal studies"[MeSH Terms] OR "clinical trials as		
Terms] OR "longitudinal studies" [MeSH Terms] OR "clinical trials as		
topic [moori remas] or control groups [moori remas] or double-bind		
		Topos [mosti remoj ote control groups [mosti remoj ote double blind

method"[MeSH Terms] OR "single-blind method"[MeSH Terms] OR comparative study[MeSH Terms] OR evaluation studies[MeSH Terms] OR "placebos"[MeSH Terms] OR "controlled before-after studies"[MeSH Terms] OR "program evaluation"[MeSH Terms]

All databases to be included:

Medline, PsycInfo, PubMed Cochrane Central, Econlit, Social Science Research Network, ISI Web of Science, Social Sciences Citation Index (within Web of Science), Scielo, AfricaWide and CINAHL

Search Strategy Medline and PubMed Cochrane Central - same as PubMed

Search Strategy PsycINFO, CINAHL, Africa Wide Information, Econlit, Medline (EBSCOhost) from 2000 to present

rom 2000 to p	present
Concept	Keywords
LMIC	TI ((developing OR "less* developed" OR "third world" OR "under developed"
	OR "middle income" OR "low income" OR middle-income OR low-income OR
	underserved OR "under served" OR deprived OR poor*) N1 (countr* OR
	nation* OR state* OR population) OR LMIC* OR poor OR deprived OR
	"South America" OR "Latin America*" OR "Central America*" OR Africa OR
	Asia) OR AB((developing OR "less* developed" OR "third world" OR "under
	developed" OR "middle income" OR "low income" OR middle-income OR low-
	income OR underserved OR "under served" OR deprived OR poor*) N1 (count*
	OR nation OR nations OR state OR states OR population) OR LMIC* OR poor
	OR deprived OR "South America*" OR "Latin America*" OR "Central
	America*" OR Africa* OR Asia*) OR TI(Afghan* OR Albania* OR Algeria*
	OR "American Samoa*" OR Angola* OR "Antigua and Barbuda*" OR
	Argentin* OR Armenia* OR Azerbaijan* OR Bahrain* OR Bangladesh* OR
	Barbados* OR Belarus* OR Belize* OR Benin* OR Bhutan* OR Bolivia* OR
	Bosnia OR Herzegovin* OR "Bosnia and Herzegovina*" OR Botswana OR
	Batswana OR Brazil* OR Bulgaria* OR "Burkina*" OR Burma* OR Burundi*
	OR "Cape Verde*" OR "Cabo Verde*" OR Cambodia* OR Cameroon* OR
	"Central African Republic" OR "Central African*" OR Chad* OR Chile* OR
	Chin* OR Colombia* OR Comor* OR Congo* OR "Costa Rica*" OR "Côte
	d'Ivo*" OR "Cote d'Ivo*" OR Ivorian* OR Croatia* OR Cuba* OR "Czech"
	OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR "Arab Rep*" OR
	"El Salvador*" OR "Equatorial Guinea*" OR Eritrea* OR Estonia* OR
	eSwatini OR IiSwati OR Ethiopia* OR Fiji* OR Gabon* OR The Gambia* OR
	Gambia* OR Georgia* OR Ghana* OR Grenad* OR Guatemala* OR Guinea*
	OR "Guinea-Bissau*" OR "Guinea Bissau*" OR Guyan* OR Haiti* OR
	Hondur* OR Hungar* OR India* OR Indonesia* OR Iran* OR "Islamic Rep*"
	OR Iraq* OR "Isle of Man*" OR Jamaica* OR Jordan* OR Kazakhstan* OR
	Kenya* OR Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR
	Latvia* OR Leban* OR Lesotho* OR Liberia* OR Libya* OR Lithuania* OR
	Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR Malt*
	OR "Marshall Island" OR Marshallese* OR Mauritania* OR Mauriti* OR
	Mayotte* OR Mexic* OR Micronesia* OR Moldova* OR Mongolia* OR
	Montenegr* OR Morocc* OR Mozambi* OR Myanmar* OR Namibia* OR
	Nauru* OR Nepal* OR Nicaragua* OR Niger* OR Nigeria* OR Macedonia*
	"Mariana Island*" OR Oman* OR Pakistan* OR Palau* OR Panama* OR
	"Papua New Guinea*" OR "New Guinea*" OR Paraguay* OR Peru* OR
	Philippin* OR Poland* OR Polish OR "Puerto Ric*" OR Romania* OR
	Russia* OR Rwanda* OR Samoa* OR "São Tomé and Principe*" OR "Sao
	Tome*" OR "Saudi Arabia*" OR Senegal* OR Serbia* OR "Serbia and

Montenegr*" OR Seychell* OR "Sierra Leone*" OR "Slovak*" OR "Solomon Island*" OR Somali* OR "South Africa*" OR "South Sudan*" OR "Sri Lanka*" OR "Kitts and Nevis" OR Kittitian* OR Nevisian* OR "St. Lucia*" OR "Saint Lucia*" OR "Vincent and the Grenadines" OR Vincentian* OR Sudan* OR Suriname* OR "Syrian Arab Rep*" OR Tajik* OR Tanzania* OR Thai* OR Timor* OR Leste* OR Togo* OR Tonga* OR Trinidad* OR Tobago* OR Tunisia* OR Turk* OR Turkmen* OR Tuvalu* OR Uganda* OR Ukrain* OR Uruguay* OR USSR* OR Uzbek* OR Vanuatu OR Ni-Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*" OR Gaza* OR "Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*) OR AB(Afghan* OR Albania* OR Algeria* OR "American Samoa*" OR Angola* OR "Antigua and Barbuda*" OR Argentin* OR Armenia* OR Azerbaijan* OR Bahrain* OR Bangladesh* OR Barbados* OR Belarus* OR Belize* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia OR Herzegovin* OR "Bosnia and Herzegovina*" OR Botswana OR Batswana OR Brazil* OR Bulgaria* OR "Burkina*" Burma* OR Burundi* OR "Cape Verde*" OR "Cabo Verde*" OR Cambodia* OR Cameroon* OR "Central African Republic" OR "Central African*" OR Chad* OR Chile* OR Chin* OR Colombia* OR Comor* OR Congo* OR "Costa Rica*" OR "Côte d'Ivo*" OR "Cote d'Ivo*" OR Ivorian* OR Croatia* OR Cuba* OR "Czech" OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR "Arab Rep*" OR "El Salvador*" OR "Equatorial Guinea*" OR Eritrea* OR Estonia* OR eSwatini OR IiSwati OR Ethiopia* OR Fiji* OR Gabon* OR The Gambia* OR Gambia* OR Georgia* OR Ghana* OR Grenad* OR Guatemala* OR Guinea* OR "Guinea-Bissau*" OR "Guinea Bissau*" OR Guyan* OR Haiti* OR Hondur* OR Hungar* OR India* OR Indonesia* OR Iran* OR "Islamic Rep*" OR Iraq* OR "Isle of Man*" OR Jamaica* OR Jordan* OR Kazakhstan* OR Kenya* OR Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR Latvia* OR Leban* OR Lesotho* OR Liberia* OR Libya* OR Lithuania* OR Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR Malt* OR "Marshall Island" OR Marshallese* OR Mauritania* OR Mauriti* OR Mayotte* OR Mexic* OR Micronesia* OR Moldova* OR Mongolia* OR Montenegr* OR Morocc* OR Mozambi* OR Myanmar* OR Namibia* OR Nauru* OR Nepal* OR Nicaragua* OR Niger* OR Nigeria* OR Macedonia* "Mariana Island*" OR Oman* OR Pakistan* OR Palau* OR Panama* OR "Papua New Guinea*" OR "New Guinea*" OR Paraguay* OR Peru* OR Philippin* OR Poland* OR Polish OR "Puerto Ric*" OR Romania* OR Russia* OR Rwanda* OR Samoa* OR "São Tomé and Principe*" OR "Sao Tome*" OR "Saudi Arabia*" OR Senegal* OR Serbia* OR "Serbia and Montenegr*" OR Seychell* OR "Sierra Leone*" OR Slovak* OR "Solomon Island*" OR Somali* OR "South Africa*" OR "South Sudan*" OR "Sri Lanka*" OR "Kitts and Nevis" OR Kittitian* OR Nevisian* OR "St Lucia*" OR "Saint Lucia*" OR "Vincent and the Grenadines" OR Vincentian* OR Sudan* OR Suriname* OR "Syrian Arab Rep*" OR Tajik* OR Tanzania* OR Thai* OR Timor* OR Leste* OR Togo* OR Tonga* OR Trinidad* OR Tobago* OR Tunisia* OR Turk* OR Turkmen* OR Tuvalu* OR Uganda* OR Ukrain* OR Uruguay* OR USSR* OR Uzbek* OR Vanuatu OR Ni-Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*" OR Gaza* OR "Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*)

Cash transfer

TI(social N1 (assistance OR polic* OR welfare* OR protection) OR "poverty alleviation" OR "poverty reduction" OR (family N1 (polic* OR welfare)) OR (public N1 (assistance OR polic*)) OR "cash transfer" OR (conditional OR unconditional) N1 ("cash transfer") OR conditional OR unconditional OR "maternal welfare" OR "financial support" OR "experimental social security" OR "poverty reduction scheme" OR (financial OR cash OR pay* OR monetary OR money) N1(transfer* OR measure* OR incentive* OR allowance* OR

	exclu* OR reform* OR gain* OR credit* OR benefit*)) OR AB(social N1
	(assistance OR polic* OR welfare* OR protection) OR "poverty alleviation"
	OR "poverty reduction" OR (family N1 (polic* OR welfare)) OR (public N1
	(assistance OR polic*)) OR "cash transfer" OR (conditional OR unconditional)
	N1 ("cash transfer") OR conditional OR unconditional OR "maternal welfare"
	OR "financial support" OR "experimental social security" OR "poverty
	reduction scheme" OR (financial OR cash OR pay* OR monetary OR money)
	N1(transfer* OR measure* OR incentive* OR allowance* OR exclu* OR
	reform* OR gain* OR credit* OR benefit*))
Mental health	TI (mental N1 (health OR disorder* OR illness* OR problem*) OR "behaviour
	disorder*" OR "psychiatric mental disorder*" OR "psychiatric diagnos*" OR
	depression OR anxiety OR "personality disorder*" OR bipolar OR
	schizophrenia OR "mood disorder*" OR "eating disorder*" OR alcoholism OR
	"drinking behavi*" OR "drug taking" OR addiction OR "addictive behavi*"
	OR "positive mental health" OR wellbeing OR self-esteem OR "self esteem"
	OR confidence) OR AB (mental N1 (health OR disorder* OR illness* OR
	problem*) OR "behaviour disorder*" OR "psychiatric mental disorder*" OR
	"psychiatric diagnos*" OR depression OR anxiety OR "personality disorder*"
	OR bipolar OR schizophrenia OR "mood disorder*" OR suicide* OR "eating
	disorder*" OR alcoholism OR "drinking behavi*" OR "drug taking" OR
	addiction OR "addictive behavi*" OR "positive mental health" OR wellbeing
	OR well-being OR self-esteem OR "self esteem" OR confidence)
Controlled	TI (random* OR placebo* OR (single OR double OR triple OR treble) N1
design	(blind*) OR single-blind* OR double-blind* OR "controlled before" OR
	"intervention* stud*" OR longitud* OR "before and after" OR "repeat*
	measure*" OR "randomized* control* trial*" OR "RCT*" OR trial OR "follow-
	up assessment*" OR "follow up assessment*" OR "follow-up stud*" OR
	"follow up stud*" OR "secondary analys*" OR randomiz* OR ((intervention*
	OR treatment*) N1 (evaluat* OR effect* OR outcome* OR stud*)) OR
	"evaluation* stud*" OR "cohort stud*" OR "compar* group*" OR "compar*
	stud*" OR "control group*") OR AB (random* OR placebo* OR (single OR
	double OR triple OR treble) N1 (blind*) OR single-blind* OR double-blind*
	OR "controlled before" OR "before and after" OR "repeat* measure*" OR
	"randomized* control* trial*" OR "RCT*" OR trial OR "follow-up
	assessment*" OR "follow up assessment*" OR "follow-up stud*" OR "follow
	up stud*" OR "secondary analys*" OR randomiz* OR ((intervention* OR
	treatment*) N1 (evaluat* OR effect* OR outcome* OR stud*)) OR "evaluation*
	stud*" OR "cohort stud*" OR "compar* group*" OR "compar* stud*" OR
	"control group*")

Search Strategy CINAHL (2000 to present) – index terms

Concept	Keywords
LMIC	(MH "Low and Middle Income Countries") OR (MH "Developed Countries")
	OR (MH "Developing Countries") OR (MH "Africa+") OR (MH "Asia+") OR
	(MH "Central America+") OR (MH "Latin America") OR (MH "South
	America+") OR (MH "Mexico") OR (MH "West Indies+") OR (MH "Albania")
	OR (MH "Bosnia-Herzegovina") OR (MH "Croatia") OR (MH "Czech
	Republic") OR (MH "Hungary") OR (MH "Macedonia (Republic)") OR (MH
	"Romania") OR (MH "Serbia") OR (MH "Slovakia") OR (MH "Arabia") OR
	(MH "Czechoslovakia") OR (MH "Korea") OR (MH "Afghanistan") OR (MH
	"Bahrain") OR (MH "Egypt") OR (MH "Iran") OR (MH "Iraq") OR (MH
	"Israel") OR (MH "Jordan") OR (MH "Lebanon") OR (MH "Libya") OR (MH
	"Oman") OR (MH "Saudi Arabia") OR (MH "Syria") OR (MH "Turkey") OR

	(MH "United Arab Emirates") OR (MH "Yemen") OR (MH "New Guinea") OR
	(MH "USSR+") OR (MH "Indian Ocean Islands+") OR (MH "Micronesia+")
Cash transfer	(MH "Social Welfare+") OR (MH "Public Assistance+") OR (MH "Public
	Policy+") OR (MH "Economic and Social Security") OR (MH "Insurance,
	Unemployment")
Mental health	(MH "Behavioral and Mental Disorders+") OR (MH "Child Behavior+") OR
	(MH "Coping+") OR (MH "Diagnosis, Psychosocial+") OR (MH "Drinking
	Behavior+") OR (MH "Personality+") OR (MH "Substance Abuse+") OR (MH
	"Adolescent Behavior") OR (MH "Disruptive Behavior") OR (MH "Mental
	Health") OR (MH "Psychological Well-Being")
Controlled	(MH "Clinical Trials+") OR (MH "Community Trials") OR (MH "Controlled
design	Before-After Studies") OR (MH "Nonrandomized Trials") OR (MH "Pretest-
	Posttest Design+") OR (MH "Double-Blind Studies") OR (MH "Single-Blind
	Studies") OR (MH "Triple-Blind Studies") OR (MH "Repeated Measures") OR
	(MH "Quasi-Experimental Studies")

Search Strategy PsycINFO & Africa Wide (2000 to present) – index terms

Concept	Keywords
LMIC	(DE "Middle Income Level" OR DE "Lower Income Level" OR DE
	"Developing Countries" OR DE "Disadvantaged")
Cash transfer	(DE "Welfare Reform" OR DE "Community Welfare Services" OR DE "Social
	Support" OR DE "Economic Development" OR DE "Poverty" OR DE
	"Educational Financial Assistance" OR DE "Financial Services" OR DE
	"Economic Security" OR DE "Welfare Reform" OR DE "Economic Security"
	OR DE "Government Programs" OR DE "Social Security" OR DE "Upward
	Bound" OR DE "Welfare Services (Government)")
Mental health	(DE "Suicide" OR DE "Attempted Suicide" OR DE "Suicidality" OR DE
	"Affective Disorders" OR DE "Disruptive Mood Dysregulation Disorder" OR
	DE "Major Depression" OR DE "Seasonal Affective Disorder" OR DE
	"Anxiety Disorders" OR DE "Castration Anxiety" OR DE "Death Anxiety" OR
	DE "Generalized Anxiety Disorder" OR DE "Obsessive Compulsive Disorder"
	OR DE "Panic Attack" OR DE "Panic Disorder" OR DE "Phobias" OR DE
	"Separation Anxiety Disorder" OR DE "Trichotillomania" OR DE "Autism
	Spectrum Disorders" OR DE "Autistic Traits" OR DE "Bipolar Disorder" OR
	DE "Bipolar I Disorder" OR DE "Bipolar II Disorder" OR DE "Cyclothymic
	Disorder" OR DE "Mania" OR DE "Chronic Mental Illness" OR DE "Chronic
	Psychosis" OR DE "Dissociative Disorders" OR DE "Depersonalization" OR
	DE "Depersonalization/Derealization Disorder" OR DE "Dissociative Amnesia"
	OR DE "Dissociative Identity Disorder" OR DE "Fugue Reaction" OR DE
	"Eating Disorders" OR DE "Anorexia Nervosa" OR DE "Binge Eating
	Disorder" OR DE "Bulimia" OR DE "Feeding Disorders" OR DE
	"Hyperphagia" OR DE "Kleine Levin Syndrome" OR DE "Pica" OR DE
	"Purging (Eating Disorders)" OR DE "Rumination (Eating)" OR DE
	"Neurocognitive Disorders" OR DE "Consciousness Disorders" OR DE
	"Delirium" OR DE "Dementia" OR DE "Memory Disorders" OR DE
	"Neurodevelopmental Disorders" OR DE "Attention Deficit Disorder" OR DE
	"Autism Spectrum Disorders" OR DE "Developmental Disabilities" OR DE
	"Disruptive Behavior Disorders" OR DE "Emotional and Behavioral Disorders"
	OR DE "Intellectual Development Disorder" OR DE "Learning Disorders" OR
	DE "Learning Disabilities" OR DE "Reading Disabilities" OR DE "Personality
	Disorders" OR DE "Antisocial Personality Disorder" OR DE "Avoidant
	Personality Disorder" OR DE "Borderline Personality Disorder" OR DE

"Dependent Personality Disorder" OR DE "Histrionic Personality Disorder" OR DE "Narcissistic Personality Disorder" OR DE "Obsessive Compulsive Personality Disorder" OR DE "Paranoid Personality Disorder" OR DE "Passive Aggressive Personality Disorder" OR DE "Sadomasochistic Personality" OR DE "Schizoid Personality Disorder" OR DE "Schizotypal Personality Disorder" OR DE "Psychosis" OR DE "Acute Psychosis" OR DE "Affective Psychosis" OR DE "Alcoholic Psychosis" OR DE "Capgras Syndrome" OR DE "Childhood Psychosis" OR DE "Chronic Psychosis" OR DE "Experimental Psychosis" OR DE "Hallucinosis" OR DE "Paranoia (Psychosis)" OR DE "Postpartum Psychosis" OR DE "Reactive Psychosis" OR DE "Schizophrenia" OR DE "Senile Psychosis" OR DE "Toxic Psychoses" OR DE "Somatoform Disorders" OR DE "Body Dysmorphic Disorder" OR DE "Conversion Disorder" OR DE "Factitious Disorders" OR DE "Hypochondriasis" OR DE "Hysteria" OR DE "Neurasthenia" OR DE "Neurodermatitis" OR DE "Somatization Disorder" OR DE "Somatoform Pain Disorder" OR DE "Stress and Trauma Related Disorders" OR DE "Acute Stress Disorder" OR DE "Adjustment Disorders" OR DE "Attachment Disorders" OR DE "Posttraumatic Stress Disorder" OR DE "Substance Related and Addictive Disorders" OR DE "Nonsubstance Related Addictions" OR DE "Substance Use Disorder" OR DE "Conduct Disorder" OR DE "Disruptive Behavior Disorders" OR DE "Conduct Disorder" OR DE "Oppositional Defiant Disorder" OR DE "Impulse Control Disorders" OR DE "Explosive Disorder" OR DE "Juvenile Delinquency" OR DE "Predelinquent Youth" OR DE "Female Delinquency" OR DE "Male Delinquency" OR DE "Aggressive Behavior" OR DE "Aggressive Driving Behavior" OR DE "Attack Behavior" OR DE "Coercion" OR DE "Conflict" OR DE "Microaggression" OR DE "Relational Aggression" OR DE "Threat" OR DE "Antisocial Behavior" OR DE "Child Neglect" OR DE "Corruption" OR DE "Criminal Behavior" OR DE "Cruelty" OR DE "Dangerousness" OR DE "Elder Abuse" OR DE "Emotional Abuse" OR DE "Harassment" OR DE "Juvenile Delinquency" OR DE "Patient Abuse" OR DE "Persecution" OR DE "Physical Abuse" OR DE "Prisoner Abuse" OR DE "Recidivism" OR DE "Runaway Behavior" OR DE "Sexual Abuse" OR DE "Terrorism" OR DE "Torture" OR DE "Verbal Abuse" OR DE "Violence" OR DE "Behavior Problems" OR DE "Tantrums" OR DE "Well Being" OR DE "Spiritual Well Being" OR DE "Mental Health" OR DE "Mental Status" OR DE "Cognitive Ability" OR DE "Cognitive Impairment" OR DE "Brain Training" OR DE "Mathematical Ability" OR DE "Reading Ability" OR DE "Spatial Ability" OR DE "Verbal Ability" OR DE "Executive Function" OR DE "Cognitive Control" OR DE "Set Shifting" OR DE "Task Switching) (DE "Cohort Analysis" OR DE "Followup Studies" OR DE "Longitudinal Studies" OR DE "Prospective Studies" OR DE "Repeated Measures" OR DE "Randomized Controlled Trials" OR DE "Randomized Clinical Trials" OR DE "Placebo" OR DE "Random Sampling" OR DE "Treatment Effectiveness Evaluation")

Search strategy ProQuest from 2000 to present

Controlled

design

Search strategy	1 To Quest 11 om 2000 to present
Concept	Keywords
LMIC	tiab((developing OR "less* developed" OR "third world" OR "under
	developed" OR "middle income" OR "low income" OR middle-income
	OR low-income OR underserved OR "under served" OR deprived OR
	poor*) NEAR/1 (countr* OR nation* OR state* OR population) OR
	LMIC* OR poor OR deprived OR "South America" OR "Latin
	America*" OR "Central America*" OR Africa OR Asia) OR
	ab((developing OR "less* developed" OR "third world" OR "under

developed" OR "middle income" OR "low income" OR middle-income OR low-income OR underserved OR "under served" OR deprived OR poor*) NEAR/1 (count* OR nation OR nations OR state OR states OR population) OR LMIC* OR poor OR deprived OR "South America*" OR "Latin America*" OR "Central America*" OR Africa* OR Asia*) OR ti(Afghan* OR Albania* OR Algeria* OR "American Samoa*" OR Angola* OR "Antigua and Barbuda*" OR Argentin* OR Armenia* OR Azerbaijan* OR Bahrain* OR Bangladesh* OR Barbados* OR Belarus* OR Belize* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia OR Herzegovin* OR "Bosnia and Herzegovina*" OR Botswana OR Batswana OR Brazil* OR Bulgaria* OR "Burkina*" Burma* OR Burundi* OR "Cape Verde*" OR "Cabo Verde*" OR Cambodia* OR Cameroon* OR "Central African Republic" OR "Central African*" OR Chad* OR Chile* OR Chin* OR Colombia* OR Comor* OR Congo* OR "Costa Rica*" OR "Côte d'Ivo*" OR "Cote d'Ivo*" OR Ivorian* OR Croatia* OR Cuba* OR "Czech" OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR "Arab Rep*" OR "El Salvador*" OR "Equatorial Guinea*" OR Eritrea* OR Estonia* OR eSwatini OR IiSwati OR Ethiopia* OR Fiji* OR Gabon* OR The Gambia* OR Gambia* OR Georgia* OR Ghana* OR Grenad* OR Guatemala* OR Guinea* OR "Guinea-Bissau*" OR "Guinea Bissau*" OR Guyan* OR Haiti* OR Hondur* OR Hungar* OR India* OR Indonesia* OR Iran* OR "Islamic Rep*" OR Iraq* OR "Isle of Man*" OR Jamaica* OR Jordan* OR Kazakhstan* OR Kenya* OR Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR Latvia* OR Leban* OR Lesotho* OR Liberia* OR Libya* OR Lithuania* OR Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR Malt* OR "Marshall Island" OR Marshallese* OR Mauritania* OR Mauriti* OR Mayotte* OR Mexic* OR Micronesia* OR Moldova* OR Mongolia* OR Montenegr* OR Morocc* OR Mozambi* OR Myanmar* OR Namibia* OR Nauru* OR Nepal* OR Nicaragua* OR Niger* OR Nigeria* OR Macedonia* "Mariana Island*" OR Oman* OR Pakistan* OR Palau* OR Panama* OR "Papua New Guinea*" OR "New Guinea*" OR Paraguay* OR Peru* OR Philippin* OR Poland* OR Polish OR "Puerto Ric*" OR Romania* OR Russia* OR Rwanda* OR Samoa* OR "São Tomé and Principe*" OR "Sao Tome*" OR "Saudi Arabia*" OR Senegal* OR Serbia* OR "Serbia and Montenegr*" OR Seychell* OR "Sierra Leone*" OR Slovak* OR "Solomon Island*" OR Somali* OR "South Africa*" OR "South Sudan*" OR "Sri Lanka*" OR "Kitts and Nevis" OR Kittitian* OR Nevisian* OR "St Lucia*" OR "Saint Lucia*" OR "Vincent and the Grenadines" OR Vincentian* OR Sudan* OR Suriname* OR "Syrian Arab Rep*" OR Tajik* OR Tanzania* OR Thai* OR Timor* OR Leste* OR Togo* OR Tonga* OR Trinidad* OR Tobago* OR Tunisia* OR Turk* OR Turkmen* OR Tuvalu* OR Uganda* OR Ukrain* OR Uruguay* OR USSR* OR Uzbek* OR Vanuatu OR Ni-Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*" OR Gaza* OR "Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*) OR AB(Afghan* OR Albania* OR Algeria* OR "American Samoa*" OR Angola* OR "Antigua and Barbuda*" OR Argentin* OR Armenia* OR Azerbaijan* OR Bahrain* OR Bangladesh* OR Barbados* OR Belarus* OR Belize* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia OR Herzegovin* OR "Bosnia and Herzegovina*" OR Botswana OR Batswana OR Brazil* OR Bulgaria* OR "Burkina*" Burma* OR Burundi* OR "Cape Verde*" OR "Cabo Verde*" OR Cambodia* OR Cameroon* OR "Central African Republic" OR "Central African*" OR Chad* OR Chile* OR Chin* OR Colombia* OR Comor* OR Congo* OR "Costa Rica*" OR

	"Côte d'Ivo*" OR "Cote d'Ivo*" OR Ivorian* OR Croatia* OR Cuba* OR
	"Czech" OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR
	"Arab Rep*" OR "El Salvador*" OR "Equatorial Guinea*" OR Eritrea*
	OR Estonia* OR eSwatini OR IiSwati OR Ethiopia* OR Fiji* OR Gabon*
	OR The Gambia* OR Gambia* OR Georgia* OR Ghana* OR Grenad*
	OR Guatemala* OR Guinea* OR "Guinea-Bissau*" OR "Guinea
	Bissau*" OR Guyan* OR Haiti* OR Hondur* OR Hungar* OR India*
	OR Indonesia* OR Iran* OR "Islamic Rep*" OR Iraq* OR "Isle of
	Man*" OR Jamaica* OR Jordan* OR Kazakhstan* OR Kenya* OR
	Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR Latvia* OR
	Leban* OR Lesotho* OR Liberia* OR Libya* OR Lithuania* OR
	Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR
	Malt* OR "Marshall Island" OR Marshallese* OR Mauritania* OR
	Mauriti* OR Mayotte* OR Mexic* OR Micronesia* OR Moldova* OR
	Mongolia* OR Montenegr* OR Morocc* OR Mozambi* OR Myanmar*
	OR Namibia* OR Nauru* OR Nepal* OR Nicaragua* OR Niger* OR
	Nigeria* OR Macedonia* "Mariana Island*" OR Oman* OR Pakistan*
	OR Palau* OR Panama* OR "Papua New Guinea*" OR "New Guinea*"
	OR Paraguay* OR Peru* OR Philippin* OR Poland* OR Polish OR
	"Puerto Ric*" OR Romania* OR Russia* OR Rwanda* OR Samoa* OR
	"São Tomé and Principe*" OR "Sao Tome*" OR "Saudi Arabia*" OR
	Senegal* OR Serbia* OR "Serbia and Montenegr*" OR Seychell* OR
	"Sierra Leone*" OR Slovak* OR "Solomon Island*" OR Somali* OR
	"South Africa*" OR "South Sudan*" OR "Sri Lanka*" OR "Kitts and
	Nevis" OR Kittitian* OR Nevisian* OR "St Lucia*" OR "Saint Lucia*"
	OR "Vincent and the Grenadines" OR Vincentian* OR Sudan* OR
	Suriname* OR "Syrian Arab Rep*" OR Tajik* OR Tanzania* OR Thai*
	OR Timor* OR Leste* OR Togo* OR Tonga* OR Trinidad* OR Tobago*
	OR Tunisia* OR Turk* OR Turkmen* OR Tuvalu* OR Uganda* OR
	Ukrain* OR Uruguay* OR USSR* OR Uzbek* OR Vanuatu OR Ni-
	Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*" OR Gaza* OR
G 1	"Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*)
Cash transfer	tiab(social NEAR/1 (assistance OR polic* OR welfare* OR protection)
	OR "poverty alleviation" OR "poverty reduction" OR (family NEAR/1
	(polic* OR welfare)) OR (public NEAR/1 (assistance OR polic*)) OR
	"cash transfer" OR conditional OR unconditional OR "maternal welfare"
	OR "financial support" OR "experimental social security" OR "poverty
	reduction scheme" OR (financial OR cash OR pay* OR monetary OR
	money) NEAR/1(transfer* OR measure* OR incentive* OR allowance*
	OR exclu* OR reform* OR gain* OR credit* OR benefit*))
Mental health	tiab(mental NEAR/1 (health OR disorder* OR illness* OR problem*) OR
	"behaviour disorder*" OR "psychiatric mental disorder*" OR "psychiatric
	diagnos*" OR depression OR anxiety OR "personality disorder*" OR
	bipolar OR schizophrenia OR "mood disorder*" OR suicid* OR "eating
	disorder*" OR alcoholism OR "drinking behavi*" OR "drug taking" OR
	addiction OR "addictive behavi*" OR "positive mental health" OR
	wellbeing OR well-being OR self-esteem OR "self esteem" OR
	confidence)
Controlled	tiab(random* OR placebo* OR (single OR double OR triple OR treble)
design	NEAR/1 (blind*) OR single-blind* OR double-blind* OR longitud* OR
	"controlled before" OR "before and after" OR "repeat* measure*" OR
	"randomized* control* trial*" OR "RCT*" OR trial OR "follow-up
	assessment*" OR "follow up assessment*" OR "follow-up stud*" OR
	"follow up stud*" OR "secondary analys*" OR randomiz* OR

((intervention* OR treatment) NEAR/1 (evaluat* OR effect* OR outcome* OR stud*)) OR "evaluation* stud*" OR "cohort stud*" OR "compar* group*" OR "compar* stud*" OR "control group*")

Social Sciences Citation Index (ISI Web of Science) from 2002 to present

Concept	Keywords
	TI = ((developing OR "less* developed" OR "third world" OR "under developed" OR "middle income" OR "low income" OR middle-income OR low-income OR underserved OR "under served" OR deprived OR poor*) NEAR/1 (countr* OR nation* OR state* OR population) OR LMIC* OR poor OR deprived OR "South America" OR "Latin America*" OR "Central America*" OR Africa OR Asia) OR TS = ((developing OR "less* developed" OR "third world" OR "under developed" OR "middle income" OR "low income" OR middle-income OR low-income OR underserved OR "under served" OR deprived OR poor*) NEAR/1 (count* OR nation OR nations OR state OR states OR population) OR LMIC* OR poor OR deprived OR "South America*" OR "Latin America*" OR "Central America*" OR Africa* OR Asia*) OR TI = (Afghan* OR Albania* OR Algeria* OR "America OR Asia*) OR TI = (Afghan* OR Albania* OR Algeria* OR "America OR Arzebaijan* OR Bahrain* OR Bangladesh* OR Barbados* OR Belarus* OR Belize* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia OR Herzegovin* OR "Bosnia and Herzegovina*" OR Botswana OR Batswana OR Brazil* OR Bulgaria* OR "Burkina*" Burma* OR Burundi* OR "Central African Republic" OR "Central African*" OR Chad* OR Chile* OR Chin* OR Colombia* OR "Central African* OR Congo* OR "Costa Rica*" OR "Côte d'Ivo*" OR "Cote d'Ivo*" OR
	Leone*" OR Slovak* OR "Solomon Island*" OR Somali* OR "South Africa*"

OR Tonga* OR Trinidad* OR Tobago* OR Tunisia* OR Turk* OR Turkmen* OR Tuvalu* OR Uganda* OR Ukrain* OR Uruguay* OR USSR* OR Uzbek* OR Vanuatu OR Ni-Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*" OR Gaza* OR "Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*) OR TS = (Afghan* OR Albania* OR Algeria* OR "American Samoa*" OR Angola* OR "Antigua and Barbuda*" OR Argentin* OR Armenia* OR Azerbaijan* OR Bahrain* OR Bangladesh* OR Barbados* OR Belarus* OR Belize* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia OR Herzegovin* OR "Bosnia and Herzegovina*" OR Botswana OR Batswana OR Brazil* OR Bulgaria* OR "Burkina*" Burma* OR Burundi* OR "Cape Verde*" OR "Cabo Verde*" OR Cambodia* OR Cameroon* OR "Central African Republic" OR "Central African*" OR Chad* OR Chile* OR Chin* OR Colombia* OR Comor* OR Congo* OR "Costa Rica*" OR "Côte d'Ivo*" OR "Cote d'Ivo*" OR Ivorian* OR Croatia* OR Cuba* OR "Czech" OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR "Arab Rep*" OR "El Salvador*" OR "Equatorial Guinea*" OR Eritrea* OR Estonia* OR eSwatini OR IiSwati OR Ethiopia* OR Fiji* OR Gabon* OR The Gambia* OR Gambia* OR Georgia* OR Ghana* OR Grenad* OR Guatemala* OR Guinea* OR "Guinea-Bissau*" OR "Guinea Bissau*" OR Guyan* OR Haiti* OR Hondur* OR Hungar* OR India* OR Indonesia* OR Iran* OR "Islamic Rep*" OR Iraq* OR "Isle of Man*" OR Jamaica* OR Jordan* OR Kazakhstan* OR Kenya* OR Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR Latvia* OR Leban* OR Lesotho* OR Liberia* OR Libya* OR Lithuania* OR Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR Malt* OR "Marshall Island" OR Marshallese* OR Mauritania* OR Mauriti* OR Mayotte* OR Mexic* OR Micronesia* OR Moldova* OR Mongolia* OR Montenegr* OR Morocc* OR Mozambi* OR Myanmar* OR Namibia* OR Nauru* OR Nepal* OR Nicaragua* OR Niger* OR Nigeria* OR Macedonia* "Mariana Island*" OR Oman* OR Pakistan* OR Palau* OR Panama* OR "Papua New Guinea*" OR "New Guinea*" OR Paraguay* OR Peru* OR Philippin* OR Poland* OR Polish OR "Puerto Ric*" OR Romania* OR Russia* OR Rwanda* OR Samoa* OR "São Tomé and Principe*" OR "Sao Tome*" OR "Saudi Arabia*" OR Senegal* OR Serbia* OR "Serbia and Montenegr*" OR Seychell* OR "Sierra Leone*" OR Slovak* OR "Solomon Island*" OR Somali* OR "South Africa*" OR "South Sudan*" OR "Sri Lanka*" OR "Kitts and Nevis" OR Kittitian* OR Nevisian* OR "St Lucia*" OR "Saint Lucia*" OR "Vincent and the Grenadines" OR Vincentian* OR Sudan* OR Suriname* OR "Syrian Arab Rep*" OR Tajik* OR Tanzania* OR Thai* OR Timor* OR Leste* OR Togo* OR Tonga* OR Trinidad* OR Tobago* OR Tunisia* OR Turk* OR Turkmen* OR Tuvalu* OR Uganda* OR Ukrain* OR Uruguay* OR USSR* OR Uzbek* OR Vanuatu OR Ni-Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*" OR Gaza* OR "Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*)

Cash transfer

TI = (social NEAR/1 (assistance OR polic* OR welfare* OR protection) OR "poverty alleviation" OR "poverty reduction" OR (family NEAR/1 (polic* OR welfare)) OR (public NEAR/1 (assistance OR polic*)) OR "cash transfer" OR (conditional OR unconditional) NEAR/1 ("cash transfer") OR conditional OR unconditional OR "maternal welfare" OR "financial support" OR "experimental social security" OR "poverty reduction scheme" OR (financial OR cash OR pay* OR monetary OR money) NEAR/1(transfer* OR measure* OR incentive* OR allowance* OR exclu* OR reform* OR gain* OR credit* OR benefit*)) OR TS = (social NEAR/1 (assistance OR polic* OR welfare* OR protection) OR "poverty alleviation" OR "poverty reduction" OR (family NEAR/1 (polic* OR welfare)) OR (public NEAR/1 (assistance OR polic*)) OR "cash transfer" OR (conditional OR unconditional) NEAR/1 ("cash transfer") OR conditional OR unconditional OR "maternal welfare" OR "financial support" OR "experimental

	social security" OR "poverty reduction scheme" OR (financial OR cash OR
	pay* OR monetary OR money) NEAR/1(transfer* OR measure* OR incentive*
	OR allowance* OR exclu* OR reform* OR gain* OR credit* OR benefit*))
Mental health	TI = (mental NEAR/1 (health OR disorder* OR illness* OR problem*) OR
	"behaviour disorder*" OR "psychiatric mental disorder*" OR "psychiatric
	diagnos*" OR depression OR anxiety OR "personality disorder*" OR bipolar
	OR schizophrenia OR "mood disorder*" OR suicide* OR "eating disorder*"
	OR alcoholism OR "drinking behavi*" OR "drug taking" OR addiction OR
	"addictive behavi*" OR "positive mental health" OR wellbeing OR well-being
	OR self-esteem OR "self esteem" OR confidence) OR TS = (mental NEAR/1
	(health OR disorder* OR illness* OR problem*) OR "behaviour disorder*" OR
	"psychiatric mental disorder*" OR "psychiatric diagnos*" OR depression OR
	anxiety OR "personality disorder*" OR bipolar OR schizophrenia OR "mood
	disorder*" OR suicid* OR "eating disorder*" OR alcoholism OR "drinking
	behavi*" OR "drug taking" OR addiction OR "addictive behavi*" OR "positive
	mental health" OR wellbeing OR well-being OR self-esteem OR "self esteem"
	OR confidence)
Controlled	TI = (random* OR placebo* OR ((single OR double OR triple OR treble)
design	NEAR/1 (blind*)) OR single-blind* OR double-blind* OR longitud* OR
	"controlled before" OR "before and after" OR "repeat* measure*" OR
	"randomized* control* trial*" OR RCT* OR trial OR "follow-up assessment*"
	OR "follow up assessment*" OR "follow-up stud*" OR "follow up stud*" OR
	"secondary analys*" OR randomiz* OR ((intervention* OR treatment) NEAR/1
	(evaluat* OR effect* OR outcome* OR stud*)) OR "evaluat* stud*" OR
	"cohort stud*" OR "compar* group*" OR "compar* stud*" OR "control
	group*") OR TS = (random* OR placebo* OR (single OR double OR triple OR
	treble) NEAR/1 (blind*) OR single-blind* OR double-blind* OR "controlled
	before" OR "before and after" OR "repeat* measure*" OR "randomized*
	control* trial*" OR "RCT*" OR trial OR "follow-up assessment*" OR "follow
	up assessment*" OR "follow-up stud*" OR "follow up stud*" OR "secondary
	analys*" OR randomiz* OR ((intervention* OR treatment) NEAR/1 (evaluat*
	OR effect* OR outcome* OR stud*)) OR "evaluat* stud*" OR "cohort stud*"
	OR "compar* group*" OR "compar* stud*" OR "control group*")

SciELO (Web of Science) from 2002 to present

SCIELO (Web of	Science) from 2002 to present
Concept	Keywords
LMIC	TI = ((developing OR "less* developed" OR "third world" OR "under
	developed" OR "middle income" OR "low income" OR middle-income OR
	low-income OR underserved OR "under served" OR deprived OR poor*)
	NEAR/1 (countr* OR nation* OR state* OR population) OR LMIC* OR poor
	OR deprived OR "South America" OR "Latin America*" OR "Central
	America*" OR Africa OR Asia) OR TS = ((developing OR "less* developed"
	OR "third world" OR "under developed" OR "middle income" OR "low
	income" OR middle-income OR low-income OR underserved OR "under
	served" OR deprived OR poor*) NEAR/1 (count* OR nation OR nations OR
	state OR states OR population) OR LMIC* OR poor OR deprived OR "South
	America*" OR "Latin America*" OR "Central America*" OR Africa* OR
	Asia*) OR TI = (Afghan* OR Albania* OR Algeria* OR "American Samoa*"
	OR Angola* OR "Antigua and Barbuda*" OR Argentin* OR Armenia* OR
	Azerbaijan* OR Bahrain* OR Bangladesh* OR Barbados* OR Belarus* OR
	Belize* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia OR Herzegovin* OR
	"Bosnia and Herzegovina*" OR Botswana OR Batswana OR Brazil* OR
	Bulgaria* OR "Burkina*" Burma* OR Burundi* OR "Cape Verde*" OR "Cabo
	Verde*" OR Cambodia* OR Cameroon* OR "Central African Republic" OR

"Central African*" OR Chad* OR Chile* OR Chin* OR Colombia* OR Comor* OR Congo* OR "Costa Rica*" OR "Côte d'Ivo*" OR "Cote d'Ivo*" OR Ivorian* OR Croatia* OR Cuba* OR "Czech" OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR "Arab Rep*" OR "El Salvador*" OR "Equatorial Guinea*" OR Eritrea* OR Estonia* OR eSwatini OR IiSwati OR Ethiopia* OR Fiji* OR Gabon* OR The Gambia* OR Gambia* OR Georgia* OR Ghana* OR Grenad* OR Guatemala* OR Guinea* OR "Guinea-Bissau*" OR "Guinea Bissau*" OR Guyan* OR Haiti* OR Hondur* OR Hungar* OR India* OR Indonesia* OR Iran* OR "Islamic Rep*" OR Iraq* OR "Isle of Man*" OR Jamaica* OR Jordan* OR Kazakhstan* OR Kenya* OR Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR Latvia* OR Leban* OR Lesotho* OR Liberia* OR Libya* OR Lithuania* OR Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR Malt* OR "Marshall Island" OR Marshallese* OR Mauritania* OR Mauriti* OR Mayotte* OR Mexic* OR Micronesia* OR Moldova* OR Mongolia* OR Montenegr* OR Morocc* OR Mozambi* OR Myanmar* OR Namibia* OR Nauru* OR Nepal* OR Nicaragua* OR Niger* OR Nigeria* OR Macedonia* "Mariana Island*" OR Oman* OR Pakistan* OR Palau* OR Panama* OR "Papua New Guinea*" OR "New Guinea*" OR Paraguay* OR Peru* OR Philippin* OR Poland* OR Polish OR "Puerto Ric*" OR Romania* OR Russia* OR Rwanda* OR Samoa* OR "São Tomé and Principe*" OR "Sao Tome*" OR "Saudi Arabia*" OR Senegal* OR Serbia* OR "Serbia and Montenegr*" OR Seychell* OR "Sierra Leone*" OR Slovak* OR "Solomon Island*" OR Somali* OR "South Africa*" OR "South Sudan*" OR "Sri Lanka*" OR "Kitts and Nevis" OR Kittitian* OR Nevisian* OR "St Lucia*" OR "Saint Lucia*" OR "Vincent and the Grenadines" OR Vincentian* OR Sudan* OR Suriname* OR "Syrian Arab Rep*" OR Tajik* OR Tanzania* OR Thai* OR Timor* OR Leste* OR Togo* OR Tonga* OR Trinidad* OR Tobago* OR Tunisia* OR Turk* OR Turkmen* OR Tuvalu* OR Uganda* OR Ukrain* OR Uruguay* OR USSR* OR Uzbek* OR Vanuatu OR Ni-Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*" OR Gaza* OR "Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*) OR TS = (Afghan* OR Albania* OR Algeria* OR "American Samoa*" OR Angola* OR "Antigua and Barbuda*" OR Argentin* OR Armenia* OR Azerbaijan* OR Bahrain* OR Bangladesh* OR Barbados* OR Belarus* OR Belize* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia OR Herzegovin* OR "Bosnia and Herzegovina*" OR Botswana OR Batswana OR Brazil* OR Bulgaria* OR "Burkina*" Burma* OR Burundi* OR "Cape Verde*" OR "Cabo Verde*" OR Cambodia* OR Cameroon* OR "Central African Republic" OR "Central African*" OR Chad* OR Chile* OR Chin* OR Colombia* OR Comor* OR Congo* OR "Costa Rica*" OR "Côte d'Ivo*" OR "Cote d'Ivo*" OR Ivorian* OR Croatia* OR Cuba* OR "Czech" OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR "Arab Rep*" OR "El Salvador*" OR "Equatorial Guinea*" OR Eritrea* OR Estonia* OR eSwatini OR IiSwati OR Ethiopia* OR Fiji* OR Gabon* OR The Gambia* OR Gambia* OR Georgia* OR Ghana* OR Grenad* OR Guatemala* OR Guinea* OR "Guinea-Bissau*" OR "Guinea Bissau*" OR Guyan* OR Haiti* OR Hondur* OR Hungar* OR India* OR Indonesia* OR Iran* OR "Islamic Rep*" OR Iraq* OR "Isle of Man*" OR Jamaica* OR Jordan* OR Kazakhstan* OR Kenya* OR Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR Latvia* OR Leban* OR Lesotho* OR Liberia* OR Libya* OR Lithuania* OR Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR Malt* OR "Marshall Island" OR Marshallese* OR Mauritania* OR Mauriti* OR Mayotte* OR Mexic* OR Micronesia* OR Moldova* OR Mongolia* OR Montenegr* OR Morocc* OR Mozambi* OR Myanmar* OR Namibia* OR Nauru* OR Nepal* OR Nicaragua* OR Niger* OR Nigeria* OR Macedonia* "Mariana Island*" OR

	Oman* OR Pakistan* OR Palau* OR Panama* OR "Papua New Guinea*" OR
	"New Guinea*" OR Paraguay* OR Peru* OR Philippin* OR Poland* OR
	Polish OR "Puerto Ric*" OR Romania* OR Russia* OR Rwanda* OR Samoa*
	OR "São Tomé and Principe*" OR "Sao Tome*" OR "Saudi Arabia*" OR
	Senegal* OR Serbia* OR "Serbia and Montenegr*" OR Seychell* OR "Sierra
	Leone*" OR Slovak* OR "Solomon Island*" OR Somali* OR "South Africa*"
	OR "South Sudan*" OR "Sri Lanka*" OR "Kitts and Nevis" OR Kittitian* OR
	Nevisian* OR "St Lucia*" OR "Saint Lucia*" OR "Vincent and the
	Grenadines" OR Vincentian* OR Sudan* OR Suriname* OR "Syrian Arab
	Rep*" OR Tajik* OR Tanzania* OR Thai* OR Timor* OR Leste* OR Togo*
	OR Tonga* OR Trinidad* OR Tobago* OR Tunisia* OR Turk* OR Turkmen*
	OR Tuvalu* OR Uganda* OR Ukrain* OR Uruguay* OR USSR* OR Uzbek*
	OR Vanuatu OR Ni-Vanuatu OR Venezuela* OR Vietnam* OR "West Bank*"
C - 1 - 1 C	OR Gaza* OR "Yemen*" OR Yugoslav* OR Zambia* OR Zimbabwe*)
Cash transfer	TI = (longitud* OR social NEAR/1 (assistance OR polic* OR welfare* OR
	protection) OR "poverty alleviation" OR "poverty reduction" OR (family
	NEAR/1 (polic* OR welfare)) OR (public NEAR/1 (assistance OR polic*)) OR
	"cash transfer" OR (conditional OR unconditional) NEAR/1 ("cash transfer")
	OR conditional OR unconditional OR "maternal welfare" OR "financial
	support" OR "experimental social security" OR "poverty reduction scheme" OR
	(financial OR cash OR pay* OR monetary OR money) NEAR/1(transfer* OR
	measure* OR incentive* OR allowance* OR exclu* OR reform* OR gain* OR
	credit* OR benefit*)) OR TS = (longitud* OR social NEAR/1 (assistance OR
	polic* OR welfare* OR protection) OR "poverty alleviation" OR "poverty
	reduction" OR (family NEAR/1 (polic* OR welfare)) OR (public NEAR/1
	(assistance OR polic*)) OR "cash transfer" OR (conditional OR unconditional)
	NEAR/1 ("cash transfer") OR conditional OR unconditional OR "maternal
	welfare" OR "financial support" OR "experimental social security" OR
	"poverty reduction scheme" OR (financial OR cash OR pay* OR monetary OR
	money) NEAR/1(transfer* OR measure* OR incentive* OR allowance* OR
Managari 1 a a 141a	exclu* OR reform* OR gain* OR credit* OR benefit*))
Mental health	TI = (mental NEAR/1 (health OR disorder* OR illness* OR problem*) OR
	"behaviour disorder*" OR "psychiatric mental disorder*" OR "psychiatric
	diagnos*" OR depression OR suicid* OR anxiety OR "personality disorder*"
	OR bipolar OR schizophrenia OR "mood disorder*" OR "eating disorder*" OR
	alcoholism OR "drinking behavi*" OR "drug taking" OR addiction OR
	"addictive behavi*" OR "positive mental health" OR wellbeing OR well-being
	OR self-esteem OR "self esteem" OR confidence) OR TS = (mental NEAR/1
	(health OR disorder* OR illness* OR problem*) OR "behaviour disorder*" OR
	"psychiatric mental disorder*" OR "psychiatric diagnos*" OR depression OR
	suicid* OR anxiety OR "personality disorder*" OR bipolar OR schizophrenia
	OR "mood disorder*" OR "eating disorder*" OR alcoholism OR "drinking
	behavi*" OR "drug taking" OR addiction OR "addictive behavi*" OR "positive
	mental health" OR wellbeing OR well-being OR self-esteem OR "self esteem"
	OR confidence)
Controlled	TI = (longitud* OR random* OR placebo* OR ((single OR double OR triple
design	OR treble) NEAR/1 (blind*)) OR single-blind* OR double-blind* OR
acsign	"controlled before" OR "before and after" OR "repeat* measure*" OR
	"randomized* control* trial*" OR RCT* OR trial OR "follow-up assessment*"
	OR "follow up assessment*" OR "follow-up stud*" OR "follow up stud*" OR
	"secondary analys*" OR randomiz* OR ((intervention* OR treatment) NEAR/1
	(evaluat* OR effect* OR outcome* OR stud*)) OR "evaluat* stud*" OR
	"cohort stud*" OR "compar* group*" OR "compar* stud*" OR "control
	group*") OR TS = (longitud* OR random* OR placebo* OR (single OR double

OR triple OR treble) NEAR/1 (blind*) OR single-blind* OR double-blind* OR "controlled before" OR "before and after" OR "repeat* measure*" OR "randomized* control* trial*" OR "RCT*" OR trial OR "follow-up assessment*" OR "follow up assessment*" OR "follow-up stud*" OR "follow up stud*" OR "secondary analys*" OR randomiz* OR ((intervention* OR treatment) NEAR/1 (evaluat* OR effect* OR outcome* OR stud*)) OR "evaluat* stud*" OR "cohort stud*" OR "compar* group*" OR "compar* stud*" OR "control group*")

Google Scholar

In addition, we did a specific structured search of Google Scholar over the period between 2020 and 2000. Our search terms could appear anywhere in article, potentially therefore looking for these terms in the full text of reports. We broke our search down into 5 year time frames, and for each time frame looked at the first 500 records retrieved. All results were sorted by relevance. This meant that we for each search strategy we looked at 2000 records, e.g. the first 500 from 2000 to 2004, 2005 to 2009, 2010 to 2015, 2016-2020. In total we examined 5664 records for the four searches, but many of the articles we considered would have appeared in multiple searches. So the number of unique records examined will be lower. DMD and ALP both screened all records although we did this on slightly different days so the set of records might have varied slightly. In all cases as true double screening was not practical we included records where at least one reviewer had indicated inclusion.

The following limited searches were used in the advanced search function in Google Scholar: Cash Transfer* AND Mental Health and Adolesce* (2060 FOR 2015 – 2020, 845 FOR 2010-2014, 193 FOR 2005-2009 – 62 FOR 2000-2004)

Cash Transfer* AND Mental Health and Youth* (3,100 FOR 2015- 2020, 1320 FOR 2010 – 2014, 355 FOR 2005-2009 – 131 FOR 2000-2004)

Cash Transfer* AND Mental Health and Child* 3,570 FOR 2015 – 2020, 1,520 FOR 2010 – 2014, 453 FOR 2005-2009 – 155 FOR 2000-2004)

Cash Transfer* AND Mental Health and Teenage* (2,190 FOR 2015 – 2020, 909 FOR 2010 – 2014, 233 FOR 2005-2009 – 82 FOR 2000-2004)

EconPapers

We also conducted structured searches through the EconPapers database that catalogues journal articles and working papers. A number of different searches were run and 1,675 records were examined. The number of records screened with each search is listed below:

Cash Transfer(s) AND Mental in Freetext [47]
Social Assistance and Mental [32]
Social Assistance and RCT [6]
Social Policy AND Mental [88]
Mental Health and RCT [23]
Cash Transfer and Depression [19]
Social Polic* and Mental Health [62]
"social Polic* and Mental Health [50]
"social protection" AND "mental" [20]
"poverty" AND mental [517]
Transfers AND mental [305]
Mone* AND mental [390]
Cash AND mental [120]

Details of data extraction

Study eligibility: Data required to assess eligibility according to inclusion criteria.

Study details: Study authors, publication date, objectives, country, number of participants, designs and methods.

Intervention details: Including group names and intervention arms, (as well as who received the intervention and control). Where available, we also extracted details on context and implementation. This included the design of the intervention, the cost of the intervention, the duration, its generosity (e.g. assessed by the percentage contribution of an average income from the intervention to the national average total income), population coverage and who received the money (e.g. men or women).

Participant details: Sex, age, ethnicity, follow up times.

Outcomes: Mental health (i.e. self-report measures or diagnosis of positive and negative mental health outcomes), who completed the measure (child, caregiver, clinician), length of follow up.

Results: Including overall results of intervention, and effect on mental health outcomes.

Potential confounders: These included key sociodemographic characteristics of participants, including education, poverty (measured using the outcomes included in the study, such as household education, income, employment, health, access to public utilities, material possessions and housing conditions or multidimensional poverty index), social status, immigration status, ethnicity, gender, gender identity, geographic residency, labour force participation, place of residency, sexual orientation, socioeconomic status, social status and religious affiliation.