Summary
Social and psychological interventions are often complex. Understanding randomised controlled trials (RCTs) of these complex interventions requires a detailed description of the interventions tested and the methods used to evaluate them. However, RCT reports often omit, or inadequately report, this information. Incomplete and inaccurate reporting hinders the optimal use of research, wastes resources and fails to meet ethical obligations to research participants and consumers. In this paper, we explain how reporting guidelines have improved the quality of reports in medicine, and describe the ongoing development of a new reporting guideline for RCTs: CONSORT-SPI (an extension for social and psychological interventions). We invite readers to participate in the project by visiting our website, in order to help us reach the best-informed consensus on these guidelines (http://tinyurl.com/CONSORT-study).

Declaration of interest
None.

Social and psychological interventions aim to improve physical health, mental health, and associated social outcomes. They are often complex and typically involve multiple, interacting intervention components (for example several behaviour change techniques) that may act and target outcomes at several levels (for example individual, family, community). Moreover, these interventions may be contextually dependent on the hard-to-control environments in which they are delivered (for example healthcare settings, correctional facilities). The functions and processes of these interventions may be designed to accommodate particular individuals or contexts, taking on different forms, while still aiming to achieve the same objective.

Complex interventions are common in public health, psychology, education, social work, criminology and related disciplines. For example, multisystemic therapy is an intensive intervention for juvenile offenders. Based on social ecological and family systems theories, multisystemic therapy providers target a variety of individual, family, school, peer, neighbourhood and community influences on psychosocial and behavioural problems. Treatment teams of professional therapists and case-workers work with individuals, their families and their peer groups to provide tailored services. These services may be delivered in homes, social care and community settings. Other examples of social and psychological interventions may be found in reviews by the Cochrane Collaboration (for example the Developmental, Psychosocial and Learning Problems Group; the Cochrane Public Health Group) and the Campbell Collaboration.

To understand their effects and to keep services up to date, academics, policy makers, journalists, clinicians and consumers rely on research reports of intervention studies in scientific journals. Such reports should explain the methods, including the design, delivery, uptake and context of interventions, as well as subsequent results. Accurate, complete and transparent reporting is essential for readers to make best use of new evidence, to achieve returns on research investment, to meet ethical obligations to research participants and consumers of interventions, and to minimise waste in research. However, randomised controlled trials (RCTs) are often poorly reported within and across disciplines including criminology, social work, education, psychology and public health. Biomedical researchers have developed guidelines to improve the reporting of RCTs of health-related interventions. However, many social and behavioural scientists have not fully adopted these guidelines, which may not be wholly adequate for social and psychological interventions in their current form. Because of the unique features of these interventions, updated reporting guidance is needed.

This article describes the development of a reporting guideline that aims to improve the quality of reports of RCTs of social and psychological interventions. We explain how reporting guidelines have improved the quality of reports in medicine, and why guidelines have not yet improved the quality of reports in other disciplines. We then introduce a plan to develop a new reporting guideline for RCTs – CONSORT-SPI (an extension for social and psychological interventions) – that will be written using best practices for guideline development and dissemination. Wide stakeholder involvement and consensus are needed to create a useful, acceptable and evidence-based guideline, so we hope to recruit stakeholders from multiple disciplines and professions. Randomised trials are not the only rigorous method for evaluating interventions; many alternatives exist when RCTs are not possible or appropriate because of scientific, practical and ethical concerns. Nonetheless, RCTs are important to policy makers, practitioners, scientists and service users, as they are generally considered the most valid and reliable research method for estimating the effectiveness of interventions. Moreover, many of the issues faced in reporting RCTs also relate to other evaluation designs. As a result, this project will focus on standards for RCTs, which could then also inform the development of future guidelines for other evaluation designs.

Impact of CONSORT guidelines
Reporting guidelines list (in the form of a checklist) the minimum information required to understand the methods and results of studies. They do not prescribe research conduct, but facilitate the writing of transparent reports by authors and appraisal of reports by research consumers. For example, the Consolidated Standards of Reporting Trials (CONSORT) Statement 2010 is an evidence-based guideline; to identify items, the developers reviewed evidence of trial design and conduct that could contribute to bias. Using consensus methods, they developed a
checklist of 25 items and a flow diagram. The reporting of thousands of medical experiments has been improved by CONSORT. It has been endorsed by over 600 journals, and it is supported by the Institute of Educational Sciences.

The need for a new reporting guideline

Despite the impact of CONSORT guidelines in other disciplines, social and psychological interventions remain poorly reported. Information about masking, sequence generation and allocation concealment is rarely reported. Few social and psychological journals ask authors to follow a reporting guideline in their Instructions to Authors. Editors and researchers may consider existing guidelines insufficient for social and psychological intervention trials; although obviously appropriate for drug trials, existing guidelines do not address the complexities inherent in the evaluation of social and psychological research. Given that CONSORT is the most rigorously developed guideline for reporting RCTs, and it has remained more prominent that any other guideline for 15 years, for greatest impact any further reporting guidelines related to RCTs should be developed in collaboration with the CONSORT Group.

Limitations of CONSORT guidelines for social and psychological interventions

Researchers and journal editors in the social and behavioural sciences are generally aware of CONSORT but often object that it is not fully appropriate for social and psychological interventions. As a result, uptake of CONSORT guidelines in these disciplines is low. Although some criticisms are as a result of inaccurate perceptions about common features of RCTs across disciplines, many relate to real limitations for social and psychological interventions. For example, CONSORT is most relevant to RCTs in medical disciplines; it was developed by biostatisticians and medical researchers with minimal input from experts in other disciplines. Journal editors, as well as social and behavioural science researchers, believe there is a need to include appropriate stakeholders in developing a new, targeted guideline to improve uptake in their disciplines. The CONSORT Group has produced extensions of the original CONSORT statement relevant to social and psychological interventions, such as additional checklists for cluster, non-pharmacological, pragmatic and quality-of-life RCTs. These extensions provide important insights, but complex social and psychological interventions, for example, include multiple, interacting components at several levels, with various outcomes require use of several extensions at once, creating a barrier to guideline uptake; increasing intervention complexity also gives rise to new issues that are not included in existing guidelines. Therefore, simply disseminating CONSORT guidelines as they stand is insufficient, as this would not address the need for editors and authors to ‘buy-in’ to this process. To improve uptake in these disciplines, CONSORT guidelines need to be extended to specifically address the important features of social and psychological interventions.

Limitations of existing social and psychological reporting guidelines

Social and behavioural scientists have developed other reporting guidelines, including the Workgroup for Intervention Development and Evaluation Research (WIDER) Recommendations for behavioural change interventions, the American Educational Research Association’s (AERA) Standards for Reporting Research, the REPOSE guidelines for primary research in education and the Journal Article Reporting Standards (JARS) of the American Psychological Association (APA). Although they address issues not covered by the CONSORT statement and its extensions, these guidelines (except for JARS) do not provide specific guidance for RCTs. Moreover, compared with the CONSORT statement and its official extensions, guidelines in the social and behavioural sciences have not consistently followed optimal techniques for guideline development and dissemination that are recommended by international leaders in the advancement of reporting guidelines, such as the use of systematic literature reviews and formal consensus methods to select reporting standards. Researchers in public health, psychology, education, social work and criminology have noted that these guidelines could be more ‘user-friendly’, and dissemination could benefit from up-to-date knowledge transfer techniques.

For example, JARS – a notable and valuable guideline for empirical psychological research – is endorsed by few journals outside of the APA, whereas CONSORT is endorsed by hundreds of journals internationally. According to ISI Web of Knowledge and Google Scholar citations, JARS is cited approximately a dozen times annually, whereas CONSORT guidelines are cited hundreds of times per year. Moreover, the APA commissioned a select group of APA journal editors and reviewers to develop JARS, and the group based most of their work on existent CONSORT guidelines. By comparison, official CONSORT extensions have been developed using rigorous consensus methods, have involved various international stakeholders in guideline development and dissemination, and update content on the most recent scientific literature. Nonetheless, no current CONSORT guideline adequately addresses the unique features of social and psychological interventions. This new CONSORT extension will incorporate lessons from previous extensions, reporting guidelines and the research literature to aid the critical appraisal, replication and uptake of this research (see online supplement).

Aspects of internal validity

Internal validity is the extent to which the results of a study may be influenced by bias. Like other study designs, the validity of RCTs depends on high-quality execution. Poorly conducted RCTs can produce more biased results than well-conducted RCTs and well-conducted non-randomised studies. For example, evidence indicates that RCTs that do not adequately conceal the randomisation sequence can exaggerate effect estimates by up to 30% and low-quality reports of these RCTs are associated with effect estimates exaggerated by up to 35%. Social and psychological intervention RCTs are susceptible to these risks of bias as well.

Poor reporting of current CONSORT items

Some aspects of internal validity, although included in CONSORT, remain poorly reported – even in the least complex social and psychological intervention studies. Reports of RCTs should describe procedures for minimising selection bias, but reports often omit information about random sequence generation and allocation concealment and psychological journals report methods of sequence generation less frequently than medical journals. A review of educational reports found no studies that adequately reported allocation concealment and reports in criminology often lack information about randomisation procedures. In addition, RCTs of social and psychological interventions may use non-traditional randomisation techniques,
such as stepped-wedge or natural allocation, which need to be thoroughly described. Also, reports of social and psychological intervention trials often fail to include details about trial registration, protocols and adverse events, which may include important negative consequences at individual, familial and community levels.

Possible amendments to CONSORT items

Other aspects of CONSORT may require greater emphasis or modification for RCTs of social and psychological interventions. In developing this CONSORT extension, we expect to identify new items and to adapt existing items that relate to the internal validity. These may include items discussed during the development of previous CONSORT extensions or other guidelines, as well as items suggested by participants in this project. For example, it may not be possible to mask participants and providers of interventions, but masking of outcome assessors is often possible but rarely reported, and few studies explain whether masking was maintained or how lack of masking was handled. In social and psychological intervention studies, outcome measures are often subjective, variables may relate to latent constructs, and information may come from multiple sources (for example participants, providers). Although an issue in other areas of research, the influence on RCT results of the quality of subjective outcome measures in social and psychological intervention research has long been highlighted given their prevalence in research in these disciplines. Descriptions of the validity, reliability and psychometric properties of such measures are therefore particularly useful for social and psychological intervention trials, especially when they are not widely available or discussed in the research literature. Moreover, multiple measures may be analysed in several ways, so authors need to transparently report which procedures were performed and to explain their rationale.

Aspects of external validity

External validity is the extent to which a study’s results are applicable in other settings or populations. Currently, given that RCTs are primarily designed to increase the internal validity of study findings, the CONSORT Statement gives relatively little attention to external validity. Although high internal validity is an important precondition for any discussion of an RCT’s external validity, updating the CONSORT Statement to include more information about external validity is critical for the relevance and uptake of a CONSORT extension for social and psychological interventions. These interventions may be influenced by context, as different underlying social, institutional, psychological and physical structures may yield different causal and probabilistic relations between interventions and observed outcomes. Contextual information is necessary to compare the effectiveness of an interventions across time and place. Lack of information relevant to external validity may prevent practitioners or policy makers from using evidence appropriately to inform decision-making, yet existing guidelines do not adequately explain how authors should describe (a) how interventions work, (b) for whom, and (c) under what conditions.

Details of the intervention and comparator

It is useful for authors to explain the key components of interventions, how those components could be delivered, and how they relate to the outcomes selected. At present, authors can follow current standards for reporting interventions without providing adequate details about complex interventions. Many reports neither contain sufficient information about the interventions tested nor reference treatment manuals. Providing logic models – as described in the Medical Research Council Framework for Complex Interventions – or presenting theories of change can help elucidate links in causal chains that can be tested, identify important mediators and moderators and facilitate syntheses in reviews. Moreover, interventions are rarely implemented exactly as designed, and complex interventions may be designed to be implemented with some flexibility, in order to accommodate differences across participants, so it is important to report how interventions were actually delivered by providers and actually received by participants. Particularly for social and psychological interventions, the integrity of implementing the intended functions and processes of the intervention are essential to understand. As RCTs of a particular intervention can yield different relative effects depending on the nature of the control groups, information about delivery and uptake should be provided for all trial arms.

Participant characteristics

Reports should describe recruitment processes and representativeness of samples. Participants in RCTs of social and psychological interventions are often recruited outside of routine practice settings via processes that differ from routine services. An intervention that works for one group of people may not work for people living in different cultures or physical spaces, or it may not work for people with slightly different problems and comorbidities. Enrolling in an RCT can be a complex process that affects the measured and unmeasured characteristics of participants, and recruitment may differ from how users normally access interventions. Well-described RCT reports will include the characteristics of all participants (volunteers, those who enrolled and those who completed) in sufficient detail for readers to assess the comparability of the study sample to populations and in everyday services.

Contextual influences

Given that these interventions often occur in social environments, reports should describe factors of the RCT context that are believed to support, attenuate or frustrate observed effects. Interventions may differ across groups of different social or socioeconomic positions, and equity considerations should be addressed explicitly. Several aspects of setting and implementation may be important to consider, such as administrative support, staff training and supervision, organisational resources, the wider service system and concurrent political or social events. Reporting process evaluations may help understand mechanisms and outcomes.

Developing a new CONSORT extension

This new reporting guideline for RCTs of social and psychological interventions will be an official extension of the CONSORT Statement. Optimally, it will help improve the reporting of these studies. Like other official CONSORT extensions, this guideline will be integrated with the CONSORT Statement and previous extensions, and updates of the CONSORT Statement may incorporate references to this extension.

Guideline developers

The project is being led by an international collaboration of researchers, methodologists, guideline developers, funders, service
Consensus methods

We will use formal consensus techniques to reduce bias in group decision-making and to promote widespread guideline uptake and knowledge translation activities on project completion. As indicated by previous research and the development of existing CONSORT guidelines, these methods are the most appropriate and successful ways to synthesise expertise and research evidence for our purposes, and they are beneficial to use in combination.11

Following a rigorous review of existing guidelines and current reporting quality, we will conduct a Delphi process to identify a prioritised list of reporting items to consider for the extension. That is, we will invite a group of experts to answer questions about reporting items and to suggest further questions. We will circulate their feedback to the group and ask a second round of questions. The Delphi process will capture a variety of international perspectives and allow participants to share their views anonymously. Following the Delphi process, we will host a consensus meeting to review the findings and to generate a list of minimal reporting standards, mirroring the development of previous CONSORT guidelines.10,18,19

Project outputs

Together, participants in this process will create a guideline consisting of a checklist of reporting items and a flow chart for reporting social and psychological intervention RCTs. In addition, we will develop an explanation and elaboration document to explain the scientific rationale for each recommendation and to provide examples of clear reporting; a similar document was developed by the CONSORT group to help disseminate a better understanding for each included checklist item. This document will help persuade editors, authors and funders of the importance of the guideline. It will be a useful pedagogical tool, helping students and researchers understand the methods for conducting RCTs of social and psychological interventions, and it will help authors meet the guideline requirements.1

Stakeholder participation and uptake

The success of this project depends on widespread involvement and agreement among key international stakeholders in research, policy and practice. For example, previous developers have obtained guideline endorsement by journal editors who require authors and peer reviewers to use the guideline during manuscript submission and who must enforce journal article word limits.11 Many journal editors have already agreed to participate, and we hope other researchers and stakeholders will volunteer their time and expertise.

Conclusions

Reporting guidelines help us use scarce resources efficiently and ethically. Randomised controlled trials are expensive, and the public have a right to expect returns on their investments through transparent, usable reports. When RCT reports cannot be used (for whatever reason), resources are wasted. Participants contribute their time and put themselves at risk of harm to generate evidence that will help others, and researchers should disseminate that information effectively. Policy makers benefit from research when developing effective, affordable standards of practice and choosing which programmes and services to fund. Administrators and managers are required to make contextually appropriate decisions. Transparent reporting of primary studies is essential for their inclusion in systematic reviews that inform these activities. For example, there is the need to determine whether primary studies are comparable, examine biases within included studies, assess the generalisability of results, and implement effective interventions. Finally, we hope this guideline will reduce the effort and time required for authors to write reports of RCTs.

Randomised controlled trials are not the only valid method for evaluating interventions, nor are they the only type of research that would benefit from better reporting. Colleagues have identified the importance of reporting standards for other types of research, including observational, quasi-experimental and qualitative studies. This guideline is the first step towards improving reports of many designs for evaluating social and psychological interventions, which we hope will be addressed by this and future projects. We invite stakeholders from disciplines that frequently research these interventions to join this important effort and participate in guideline development by visiting our website, where they can find more information about the project, updates on its progress and sign up to be involved (http://tinyurl.com/CONSORT-study).

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References


Earlier this year, Clarke and colleagues published an admirable report of a randomised trial.\(^1\) It evaluated cognitive analytic therapy (CAT) for personality disorder compared with treatment as usual. The study included 99 participants, and the report includes a compelling account of the intervention and its outcomes. This online supplement describes ways in which their article complies with CONSORT guidelines,\(^1\) and we also use their article as an example to highlight details that are often absent in trial reports but improve the application and understanding of their results. Working with a group of stakeholders to develop CONSORT-SPI, we hope to reach a widespread consensus about how such information should be reported in the future.

Following current guidelines, Clarke and colleagues identify the study as a randomised trial in the title (Item 1a) and provide a structured summary of trial design, method, results and conclusions (Item 1b). Our review found that only 20% of trials in leading social and psychological journals were identified as randomised trials in the title, and Clarke et al’s report is more likely to be identified by reviewers and policy makers because it complies with this reporting standard.

The main text is also an example of good reporting overall. In the introduction, the authors provide the scientific background and study objectives (Item 2). The method section includes key features of design (Item 3), detailed eligibility criteria for participants (Item 4a), the location of the study (Item 4b) and staffing for the control group (Item 5). Following the CONSORT extension for non-pharmacological interventions,\(^1\) the authors describe the intervention, including: format, staffing, intended duration, intended fidelity and frequency (using the Competence measure). In Clarke et al, Table 1 shows characteristics of each group (Item 15), the number of participants included in each analysis (Item 16) and results (Item 17). The authors also report sensitivity analyses and describe mechanisms of change (Item 18).

To include a study in a systematic review, it is necessary to assess its quality. This report includes most of the information required to complete the Cochrane Risk of Bias Tool or a similar measure (Table DS1). The authors describe the prespecified outcome measures (Item 6a), as well as the addition of two measures after randomisation (Item 6b). Randomisation (Item 8), allocation concealment (Item 9) and recruitment (Item 10) are all described well. It is clear that outcome assessors were unaware of treatment assignment (Item 11a), although the authors did not specifically describe the similarity of interventions (Item 11b).

Several aspects of the study could be reported more comprehensively to fully comply with existing guidelines. Although included in the text, the abstract does not include information about setting, masking procedures, numbers randomised and effect sizes, which are recommended in the CONSORT extension for abstracts.\(^2\) The text includes details of trial registration (Item 23), but not the location of a full trial protocol (Item 24). The flow chart reports the number of participants assigned, receiving treatment and analysed for the primary outcome (Item 13a), but it does not include reasons for drop out (Item 13b).

In addition to areas covered in existing reporting guidelines, we believe the utility of this report would be improved by the inclusion of more information about key features of social and psychological interventions, areas that CONSORT-SPI will address. The report already includes a strong discussion section with details of methodological strengths and limitations (Item 20), generalisability (Item 21) and the relationship between this study and overall evidence in the area (Item 22). Given the complex nature of this intervention, it could also be useful to include further information about: the components of CAT and how they should be delivered, an explicit theory of change linking the mechanisms of the intervention to the targeted outcomes within this context, further details about the actual delivery and uptake of the intervention (for example individual tailoring, resources utilised, proscribed activities), and specific details about the delivery and uptake of interventions by participants in the control group. The authors reported that the trial occurred in a specialist personality disorder clinic in a public health setting in Dorset, UK, but the report does not describe the setting sufficiently for all readers to assess external validity of the trial; for example, a reader in another country or in the future might wonder about the nature and quality of the ‘treatment as usual’ in the control group. Although aspects of the recruitment process were reported, the actual period of recruitment and any incentives for participants were not described – these details might help readers understand the nature of this population. Furthermore, the article did not make any mention of relevant concurrent events, service environment characteristics or aspects of the delivering organisation that might influence interpretations of the study findings. These could include availability of alternative treatments outside the trial context, economic or policy changes that influence the quality of services, provider or participant preferences for different types of treatment or service, or compatibility of the clinic’s organisation with the intervention.

### Table DS1 Cochrane risk of bias tool for Clarke et al’s study

<table>
<thead>
<tr>
<th>Bias</th>
<th>Our judgement</th>
<th>Support for judgement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Random sequence generation (selection bias)</td>
<td>Low risk</td>
<td>‘The random sequence was computer generated’</td>
</tr>
<tr>
<td>Allocation concealment (selection bias)</td>
<td>Low risk</td>
<td>‘Treatment allocation concealment was achieved using a telephone-based system of randomisation, administered by the Dorset Research and Development Support Unit’</td>
</tr>
<tr>
<td>Masking (performance bias and detection bias)</td>
<td>Low risk; high risk for outcome assessment; high risk for participants and providers</td>
<td>‘best endeavours were used to ensure that assessors were masked to treatment allocation (e.g. participants were asked not to mention any information that could allow assessors to guess their treatment condition)’</td>
</tr>
<tr>
<td>Incomplete outcome data (attrition bias)</td>
<td>High risk</td>
<td>20% or more attrition in each condition with no explanation as to why participants could not be followed up. Only included data from participants who provided it for pre and post utilisation costs</td>
</tr>
<tr>
<td>Selective reporting (reporting bias)</td>
<td>Low risk</td>
<td>All outcomes reported except post-intervention healthcare utilisation costs</td>
</tr>
</tbody>
</table>
We commend Clarke and colleagues for publishing an excellent report in a leading journal. Their work demonstrates that reports of social and psychological interventions can easily adhere to reporting standards in existing guidelines, and improved adherence to these standards could further improve the quality and utility of these reports. However, a report of a social or psychological intervention that fully adheres to the CONSORT Statement may still omit information that could help readers understand the internal and external validity of a study. A consensus process is needed to identify and to disseminate reporting standards for research in this field.

Additional reference

Developing a reporting guideline for social and psychological intervention trials
Evan Mayo-Wilson, Paul Montgomery, Sally Hopewell, Geraldine Macdonald, David Moher and Sean Grant
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Supplementary Material
Supplementary material can be found at: http://bjp.rcpsych.org/content/suppl/2013/08/28/bjp.bp.112.123745.DC1

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