STARE-HI - Statement on Reporting of Evaluation Studies in Health Informatics

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Introduction

Evidence-based application of technologies, methods, and interventions is recognised as good practice and ethically important in all aspects of health care [1]: the technologies, methods, and interventions have to be proven to be safe, effective, and the most appropriate compared with other methods and alternative solutions.

Given the essential role of information technology (IT) systems on the delivery of modern health care, and the dependence of health professionals and organizations on them, it is imperative that they are thoroughly assessed through robust evaluations as with any other form of health process or technology. This principle is advocated and elaborated in the Declaration of Innsbruck [2].

In the past decades it has been demonstrated that IT systems can not only be beneficial, but also can have unintended, potentially detrimental effects as documented by [3, 4], just like other interventions in (social) environments as extensively described in [5]. It is imperative to monitor IT system implementations and their effects during the whole life cycle of the system. Unintended and intended consequences as well as the socio-technical circumstances under which these occur are important to report since they provide insight that can inform system developers and implementations of similar systems elsewhere. Although there might be pressure to suppress bad news, there are several overriding imperatives for reporting unintended consequences [6]. Also assessment of the development and implementation process itself provides indications on what is good practice and hence contributes to successful Health Informatics applications [7].

When it comes to decisions how best (if at all) to use IT systems for a particular task in the health care delivery process, objective appraisal of opportunities and options requires access to available evidence. Part of this evidence can be found in the scientific literature. Besides the fact that the volume and coverage of evaluation studies in the literature is small given the importance and impact of Health Informatics on modern health care practice and delivery [8], the evidence that is available is to some extent difficult to appreciate due to poor reporting practice [9].

There is growing published evidence of the impact of Health Informatics2 on
health care [10], and, increasingly, reviews appear that summarize the available evidence in the form of a narrative review, a systematic review, or a formal meta-analysis (e.g. [11]). However, the wide variety in the kinds of IT systems and their application domains as well as the various kinds of outcome measures have limited the generalisability of findings, and thus have hampered meta-analysis, as reported for example by [11]. Other studies too have shown that publications on the evaluation of IT interventions in health care have several shortcomings that severely hamper the proper appraisal of these publications, see the review in [12]). p. 243-323.

During a specially convened expert workshop on Health Informatics evaluation - HISeVAL - sponsored by the European Science Foundation and held in Innsbruck [2], the concern was raised that without proper guidelines for the design, planning, execution, and reporting of evaluation studies in Health Informatics, it would be difficult to build up a proper evidence base that can be used to make informed decisions regarding IT interventions in health care.

In other domains of medicine, these problems have also been identified. Work done in the early 1990s lead to the publication of the CONSORT statement in 1996 [13]. The CONSORT statement provides guidelines for the publication of randomized controlled clinical trials (RCTs). This statement has been adopted by many medical journals. Later this statement was revised [14] and has been extended to cover specific kinds of RCT designs such as cluster RCTs [15] or RCTs assessing nonpharmacologic treatments [16] and has been shortened for reporting RCTs in journal and conference abstracts [17]. Several other guidelines have been developed following the approach of the CONSORT statement; for example the QUOROM statement for reporting of meta-analyses [18], STARD for reporting of diagnostic studies [19] and STROBE for observational studies [20]. An overview of the various guidelines has been published in [21]. Such an overview is also available at the EQUATOR-network website [22].

CONSORT has proven its value over time. Studies have demonstrated that there is more quality in the reporting of controlled studies after the introduction of the CONSORT statement [23, 24]. Guidelines for good reporting of studies are likely to have an influence on the quality of the studies themselves as well, because of the requirement for a clear demonstration of sound scientific methodology.

Health Informatics is a significant area of health systems investment, and potentially affects every professional and patient. It is therefore evident that Health Informatics should adopt similar robust guidelines as to build a more solid evidence base. Health Informatics applications potentially have effects on health care organizations, health care delivery and outcomes, therefore a Health Informatics application may not directly affect the medical condition of the patient – as drugs do – but it will generally have an indirect effect by assisting the care givers in their decisions and their patient management. The study designs that are covered by CONSORT and other reporting guidelines are not always the most appropriate in Health Informatics evaluation research [2, 25, 26]. Other study designs, both qualitative and quantitative ones, are frequently used.

These observations have led us to the development of guidelines for reporting of evaluation studies in Health Informatics, which build upon work of others, yet also take into account some specific issues that are often central to Health Informatics evaluation studies. They are intended to be applicable for a spectrum of quantitative and qualitative study designs as found in Health Informatics research.

Objectives

The objective of STARE-HI (STAtement on the Reporting of Evaluation studies in Health Informatics) is to provide guidelines for writing evaluation reports in Health Informatics which can be reliably interpreted by subsequent readers; and by doing this to improve the quality of published evaluation studies in Health Informatics; and thus to improve the evidence base of Health Informatics.

These objectives are achieved by presenting guidelines for reporting, which are formatted as a checklist with enough detail to guide authors without making reporting too complex.

This paper describes the procedure followed to come to these guidelines. It gives in tabular form the issues that should be included in a report of an evaluation of an IT intervention in health care. Next, the various items are discussed in more detail. A description of the rationale of each item and examples will be published in a subsequent separate paper.

Method

An initial set of items was drafted by the editorial team (represented by the authors of this paper) based on discussions at the HISeVAL workshop and on their experience with assessing the quality of papers for either a review or a meta-analysis or as part of the editorial process as reviewers and editors. The CONSORT statement [13, 27], criteria for reviewers of biomedical informatics manuscripts [28], the QUOROM statement [18], the STARD statement [19] and other more general recommendations on publication quality such as [29] were used as further reference material.

For each item, a brief description was made. Preliminary versions of the list of items and their descriptions were presented to and discussed with colleagues world-wide at workshops at Medinfo2004, MIE2005, MIE2006, AMIA 2006, and AMIA2007.

The list of items and the descriptions was refined by the editorial team based on the comments and suggestions received. The resulting draft was then published...
on the website of the EFMI-working group on evaluation (EFMI-WG EVAL), and all members of that working group were informed of the call for comments at the end of 2006. These comments were assessed by the editorial team and incorporated in the draft document. In spring 2007, a second draft of STARE-HI was put on the website of EFMI-WG EVAL, and potential authors were invited to use and validate STARE-HI. This version of STARE-HI was also used in a pilot study to assess the quality of reporting of evaluation studies in a selected group of Medical Informatics journals in one particular year [30]. Both the usage of the draft of STARE-HI and this assessment study provided feedback on various aspects of STARE-HI.

All received comments have been taken into account leading to a final draft of STARE-HI. This final draft was once again made available through the EFMI-WG EVAL website and distributed among members of the AMIA Working Group on Evaluation for a final round of comments, which have been included in the guidelines as presented here.

**STARE-HI Recommendations**

The scope of STARE-HI is to provide guidelines for the reporting of evaluations in Health Informatics, independent of the evaluation method used. Therefore, these guidelines have a general character, with a main focus on the description of the context in which the study took place, the description of the methodology, general recommendations for the reporting of results, and the structuring of the discussion. In cases where a study design has been selected for which already a more specific guideline exists (e.g. a randomized trial), STARE-HI should be used in a way which is complementary to the more specific guideline.

We consider the Health Informatics application as the object of evaluation. This assessment can cover the technical artefact (or system) as such including its functionality, but also the effect the artefact has on the surrounding organizational environment, the working procedures and social and psychological issues, as well as its effect on patients’ health and outcomes. STARE-HI is not primarily developed for assessing information resources that are made available through IT, for example patient guides on the Internet, or for studies on general attitudes of health care providers and patients toward the use of IT in health care.

In Table 1, we list the preferred structure of a publication on an evaluation study. In the next section, we then describe the items in more detail. For the rationale and for examples of good practice, we refer to a subsequent paper that is being developed.

The reader should be aware that STARE-HI is intended as a guideline, not a rigid structural standard. We do recognise that the order of items and the detail to which the various items may be described in a report or paper may depend on the audience, the type of paper, the available space, and the type of study. The target reader must also be aware of the more detailed instructions of the respective scientific journal that may affect the order of the sections and impose restrictions on their length. In addition, not all issues presented may be of relevance for a report for a particular study.

**Description of Items**

1. **Title**

   The title should give a clear indication of the type of system evaluated, the study question and the study design. The use of the term “evaluation” (or “assessment” or “study”) preceded by a specification of the type of study in the title helps to detect evaluation studies (e.g. “Evaluation of the effect of a CPOE system on medication errors: a retrospective record analysis”).

2. **Abstract**

   The abstract should preferably be structured and must clearly describe the objective, setting, participants, measures, study design, major results, and conclusions. In case there are major limi-
tions in the study, these should be mentioned as well [31]. Structured abstracts are already mandatory for the International Journal of Medical Informatics, Methods of Information in Medicine, JAMIA for their research papers, and most medical journals. A given scientific journal may have detailed guidelines for organization of the abstract.

3. Keywords

To secure proper indexing in, for example, Medline it is essential to provide good keywords. Among the keywords should be “evaluation” and keywords describing the type of system evaluated (e.g. EHR, LIS, telemedicine), the setting (e.g. primary care, secondary care), the outcome measures, the study design (e.g. RCT, before-and-after, field study). It is advised to use MESH terms as provided by [32] whenever possible since that will enhance retrievability of the paper in searches.

4. Introduction

The introduction should provide the reader with the background for the rest of the paper. Hence, it should address the following issues:

4.1 Scientific Background

The scientific background is a description of what is already known about the (type of) system that is object of study. We use the term system in a broad sense. It does not necessarily refer to a complete system, but can be restricted to a certain functionality of a larger system, or the usage of a more general application in a specific domain or for a specific purpose, etc. The term covers both hardware and software systems, functionalities and algorithms, and the organizational and social environment where relevant.

4.2 Rationale for the Study

Describes briefly the motivation for the study: what are the specific reasons to perform the study (scientific interest, justification for expenditure, insight into problems, addressing open research questions)? Is the study part of a larger research, development or implementation project? From which stakeholder viewpoint (if any) is the study performed? If possible, it should also be mentioned what influence the findings of the study may have.

5. Objectives of the Study

The specific study questions and hypotheses must be described as concisely as possible. It should then be stated where appropriate whether any formal permission was obtained for example from institutional review boards (IRBs), ethics committees, staff committees, and the like.1,4

5. Study Context

Information on study context is important for the later assessment of generalisability of results. Clearly, giving all details on the context is not feasible—the authors of an evaluation paper have to decide to which extent information is needed to secure the validity and generalisability of the paper.

5.1 Organizational Setting

This should describe the health organization(s) where the system is being evaluated, including its geographical location and preferably its name. It should indicate what kind of health care facility it is (primary, secondary, tertiary care, home care, etc). In case the whole organization is not involved, it should be made clear which departments have been involved in the evaluation (e.g. a 12-beds intensive care unit of a 320-beds urban referral hospital.).

5.2 System Details and System in Use

The system description must permit the reader to understand how the system works (or is intended to work). The authors may refer to a technical description provided elsewhere, and this may reduce the technical description, but sufficient detail is still needed for the evaluation study report to be self-contained. Systems details should comprise the aim of the IT system (e.g. laboratory system, administrative system, nursing documentation system, CPOE system), type of system (home-grown, open source or commercial system), the type of information that is managed by the system (e.g. drug orders, nursing care plans), and the clinical or other tasks supported by the system (e.g. ordering processes, nursing documentation processes).

The description should also include information on (1) how wide-spread the system is used in the facility in which the system is evaluated, for how long and for what purpose and (2) number and professions of the users of the system in that facility.

Any additional information to detail relevant aspects of the context in which the study was conducted should be mentioned (e.g. customization of software, user training, additional attention to the study, system only implemented shortly before the evaluation).

6. Methods

This section of a paper describes in sufficient detail the study design and the
methods used in the study. STARE-HI contains items which have been dealt with in more detail in guidelines for medical studies; where appropriate we will refer to these.

6.1 Study Design
This describes the overall study design and the motivation for choosing it. The description of study design comprises the type of study, for instance observational study (case study), quasi-experimental study (e.g. before-after, with or without control; interrupted time-series with or without on–off-design), or experimental study (RCT). For an RCT, the authors should follow the CONSORT guidelines for all parts of Section 6. In case of non-RCT, the taxonomy presented in (33) can be used to describe the type of study. It should also be specified whether it is a laboratory study, simulation, or actual field study. If applicable, state reasons for choice of level of observation/participation (patients, professionals, clinics, hospitals, etc.).

Throughout the description of the study design, the authors must show their awareness of specific and potential study design biases (for this purpose see the review of biases in [12], p. 257-289 and in [34], p. 209-215) by making a statement on their potential impact and how that is handled.

6.2 Theoretical Background of the Study
Where appropriate, state the theories – with sufficient references – on which the study is based, which guided the selection of the measurement instruments used and which form the basis for interpretation of the results (e.g. the user acceptance model that guided a quantitative survey or the organizational theories that guided a qualitative study).

6.3 Participants
Describe the methods of selection of participating users, patients, units, hospitals, etc., including - if applicable - inclusion and exclusion criteria for each type of participant in a study. In case of a controlled trial, it should be specified how participants were allocated to intervention and control groups (randomization or other approaches - refer to CONSORT for more details [14, 16]). State the basis of sample size calculations if applicable (power calculations).

6.4 Study Flow
Give sufficient details on date of beginning and end of the overall study and any study periods; give clear description and date of intervention (in experimental studies). In case of a study in which several methods have been used, specify when each method was used for which group. A flow diagram should be used to summarize the experimental study designs (like the RCT flowchart as required in CONSORT [13]). For observational studies, use a diagram showing study activities over time. In each case, indicate time line and mark any important dates such as beginning of study, intervention, end of study, where appropriate compared to development milestones of the system (place/phase in life cycle).

6.5 Outcome Measures
Clearly state outcome measures or other evaluation variables of interest that were used in the study. Define a sufficient detail the key concepts in the study such as medication error or user satisfaction. In open qualitative studies, no pre-defined outcome measure can be defined; however, when certain aspects are more in the focus of the researcher than others, these can be stated here (see also section 6.2).

6.6 Methods for Data Acquisition and Measurement
This section should provide sufficient detail such that others are able to duplicate the study or to use some of the methods for other studies.

All relevant aspects of applied methods (e.g. questionnaire, interview, observation, log file analysis, chart review) should be described. Examples of aspects are location and setting of data collection, number and type of interviews, type and duration of observations, whether data collection was retrospective or prospective, professional background of the interviewers, blinding of observer and/or participants and/or analysts, etc. It should also be identified which outcome measures are covered by each of the selected methods.

For every measurement or observation, information on their validation has to be given, with references to earlier work where necessary (e.g. was there a pre-test with assessment of inter-rater reliability? Was the questionnaire previously validated?). Newly designed measurement tools should be described in more detail, full disclosure of such tools should be given in the appendices or as supplementary material.

6.7 Methods for Data Analysis
This section describes the methods used for data analysis. The selection of those methods depends on data acquisition methods and study questions. When several methods are used, combine the description of data acquisition and data analysis for each method.

For quantitative data, state the statistical techniques that have been used for analysis. For the analysis of qualitative data, indicate the analysis methods in detail. For all data analysis methods, indicate any software product used.

Triangulation may be used to combine data from various sources [35, 36]. When triangulation is used, it should be specified what kind of triangulation was applied (methods, measures, data, investigator or theory triangulation), and how the data were combined.

Throughout the description of the data acquisition and data analysis, the authors must show their awareness of specific and potential data analysis biases (for more information, see [12], p. 290-313 and [34] p. 209-215).
7. Results
The result section presents mainly the data obtained from applying the methods as described in Section 6. Depending on the type of study, the organization and naming of sections may be done in a different way. The interpretation and discussion of the results should be left to the discussion section.

Sections 7.2 and 7.4 are of special importance for but not limited to qualitative studies, as one of their objectives is to obtain new insight in, for example social and organizational aspects of Health Informatics applications.

7.1 Demographic and Other Study Coverage Data
Give basic numbers on the size of the study, for example number of users observed/interviewed, documents or medical records analysed, distribution and return rate of questionnaires, number of observation days, pages of transcripts analysed, etc.

When the study measures are related to persons, baseline demographic data and/or (clinical) characteristics of study participants (users, patients, and units) should be given, such as age groups, professions, usage patterns, patients’ diagnostic scores, etc. In particular in qualitative studies the characteristics and qualities of the participants may be of more importance than sheer numbers. Information on number and type of drop-outs should be added as well with identification of reasons. Where appropriate, baseline data must be given for relevant groups separately (e.g. for control and intervention groups in trials, or for different professions or age groups when that is relevant).

7.2 Unexpected Events During the Study
Any event that may have influenced study design and/or results has to be described (e.g. deviations from timeline, system updates during the study, staff changes, educational interventions, system failure, high drop-out rate in one group and changes in management or organizational strategy during the study period). If possible, these events should be related to the timeline of the study. The authors should indicate to what extent these unexpected events might influence (bias) the study findings.

7.3 Study Findings and Outcome Data
This is the major section, presenting the results of the study. For each study question, outcome variable and evaluation criterion, sufficient data should be presented.

Quantitative data may be presented as text. Quotations from participants should be used to illustrate major points. These quotes should be anonymous, but have an indication of the type of person being quoted (e.g. Nurse 3).

Quantitative data can be presented in tables and figures. Typically, each table, figure, etc., should be referenced in the text. The most important or relevant results should be emphasised here, and special notion should be given to unexpected or striking results such as differences between groups. Absolute numbers should always be provided; not only relative numbers.

7.4 Unexpected Observations
Any unintended (positive or negative) side-effects of the system that were not in the focus of the study but that seem remarkable should be reported here. This could be, for example, the observation of bottlenecks in the clinical workflow after system implementation, severe organizational problems that seem related to the system, or persistent unsolicited responses on a specific effect of a system during a qualitative study that focussed on other aspects. Here the authors may report about the difference between the intended use as described in section 5.2 and the observed actual use.

7.5 Results in Relation to Other Studies
Make clear what exactly is novel about your results. Describe to what extent the results are in agreement with findings of others.

8. Discussion
The discussion should be a critical interpretation and assessment of the study results and the study itself in view of the study questions. We suggest authors should make the discussion structured with the following clear subheadings [37].

8.1 Answer to Study Questions
Interpret the data and answer your study question(s). Whereas in Section 7 the results are presented in detail, in this part of the report the answers to the study questions are in focus. Make explicit reference to the specific study questions either by restating them or by other cross-reference mechanisms.

8.2 Strengths and Weaknesses of the Study
This section contains a critical discussion of the methods used. Describe the strong and weak points of the study, for example concerning the study design, comparability of intervention and control group with respect to baseline data, study execution, confounders, internal and external validity of findings, completeness of acquired data, drop-out of participants, representativeness of the participants, low or high response rates, etc. Refer here also to the information presented in Section 7.2. Discuss any biases that could be present and that would influence the findings of the study or the interpretation of the data.

8.3 Results in Relation to Other Studies
Make clear what exactly is novel about your results. Describe to what extent the results are in agreement with findings of others.

The difference with section 7.2 is that unexpected events may influence the findings (and may have caused changes of the study protocol), while unexpected observations relate to issues that arose during the study that could lead to additional insights, further recommendations, potential explanations for the findings or future research topics.
and in this light provide information about the comparability with the study setting. When there is disagreement with findings of others, discuss possible reasons.

8.4 Meaning and Generalisability of the Study

Describe the meaning of the study findings, both for the various stakeholders in the study, for other institutions and for Health Informatics in general. In this context, discuss the generalisability/applicability of the study for other organizations. Refer here also to the information given in Section 5.1 and 5.2, and in 8.2.

8.5 Unanswered and New Questions

Discuss whether the study has shed new light on an issue and/or has raised new questions. Describe what research should/could be performed in the future to further improve our knowledge about the system and its effects. Refer here also to the information presented in Section 7.4.

9. Conclusion

The conclusion summarizes the main findings, discusses the impact of the findings and how they relate back to the big picture described in the Section 1, gives recommendations by the authors and provides a short outlook for future research.

10. Authors’ Contribution

An increasing number of journals require making the contributions of the authors to a paper explicit or at least to make clear that each author qualifies for authorship[29]. It is recommendable to make that information part of the paper and not only in the covering letter while submitting the manuscript.

11. Competing Interests

A statement of the interests, financial or otherwise, the authors may have with respect to subject of study and which may – but not necessarily have – influenced the design of the study and/or the interpretation of the results [29]. This information should also make clear the relation of the study team towards the system being evaluated (developers, users, operators, internal quality assurance, external team, etc.).

12. Acknowledgements

Acknowledge any financial or other support you got when conducting the study or writing the paper [29].

13. References

References should adhere to the journal guidelines. When no strict guidelines are provided by the journal, the style recommended by the NLM is preferred [38]. The authors should include only references that are really needed for their arguments. It is improper to provide a long list of references only to demonstrate that many papers have dealt with a specific issue. Only the key papers should be included. Preferably such lists should be restricted to references the contents of which are discussed in the paper.

14. Appendices

Any supporting material should be included in appendices. This includes necessary, detailed descriptions of specific measurement methods/tools (e.g. a questionnaire), specific data analysis techniques and detailed study results. Currently, more and more journals allow such additional material being stored on the publisher’s website. This also opens up the ability to include (parts of) audio-visual and multi-dimensional material collected in the study.

Conclusion

We present STARE-HI as a guideline to report IT evaluation studies in health care with detailed recommendations for each aspect that is particularly relevant for an evaluation study.

Whether STARE-HI is feasible for the broad range of (quantitative and qualitative) Health Informatics evaluation papers can only be shown when it is used by authors and editors. We invite anybody to report their experience.
that may be incorporated in subsequent updates of STARE-HI. Subsequent more rigid evaluation studies on this question are planned.

We perceive higher quality publications of evaluation studies to be an important step towards the vision of scientifically valid evidence-based Health Informatics. Such an evidence base will help

- to demonstrate the value of Health Informatics applications,
- to assist decision makers in finding evidence on the most appropriate systems and approaches,
- to guide the field towards developments that have maximal beneficial impact on health care delivery, and
- to demonstrate that Health Informatics has a solid scientific basis and hence is a discipline that can contribute to further improvement of the quality of care.

**Authors’ Contributions**

The idea for STARE-HI was raised during the HISEVAL workshop in Innsbruck [2]. J.T. took the initiative to develop STARE-HI, he is the guarantor of the study; J.T. and E.A. drafted a first list of issues and drafted the first version of the manuscript. J.B., N.d.K., P.N., and M.R. all contributed by critically assessing the items and their descriptions in several iterations. They have made suggestions for expansion and provided various parts of the text. J.T. and E.A. integrated the various contributions and edited the final version of the manuscript. All authors have approved this final version.

**Competing Interests**

J.T. is editor of the International Journal of Medical Informatics. He was chair of the working group on Technology Assessment and Quality Development of the International Medical Informatics Association (IMIA) with J.B. as co-chair. Currently N.D.K. chairs this working group.

E.A. is chair of the Working Group on Assessment of Health Information Systems of the European Federation of Medical Informatics (EFMI). J.B. and P.N. are co-chairs of this working group.

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**Endorsements**

EFMI has formally endorsed STARE-HI in their board meeting of 30 May 2007 in Brijuni, Croatia. In November 2007, the working group on Evaluation of the American Medical Informatics Association (AMIA) endorsed STARE-HI during the AMIA 2007 Annual Meeting. The General Assembly of IMIA has adopted the STARE-HI paper as a formal IMIA document on 25 May 2008.

**References**


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