

Promoting good reporting practice for reliable and usable research papers: The EQUATOR Network, reporting guidelines and other initiatives



Caroline Struthers
June 2015, WCRI Rio

NDORMS

NUFFIELD DEPARTMENT OF
ORTHOPAEDICS, RHEUMATOLOGY
AND MUSCULOSKELETAL SCIENCES



Disclosure

- Education and Training Manager, UK EQUATOR Centre
- EQUATOR is funded by grants from the UK NIHR, MRC, CSO, and PAHO
- My salary is paid from MRC EQUATOR programme grant
- No paid consultancy for industry
- Member of Cochrane Consumer Network Executive Group and funded to attend international Cochrane Meetings to promote consumer involvement in Cochrane



Ashraf Nabhan



Caroline Struthers I seriously think there should be a prize for this achievement for all researchers with a clean green sweep in a Cochrane review 😊. Congrats Ashraf Nabhan!
November 12, 2014 at 9:11am · Like · 👍 3



Ashraf Nabhan Thanks dear Caroline and the prize should go to EQUATOR too, the reason behind this clean green sweep 😊
November 12, 2014 at 12:42pm · Edited · Unlike · 👍 1

Passos 2012



Keeping track

- Trials registers and results databases
- Threaded publication linking records, protocols, data and publications
- Auditing adherence

ClinicalTrials.gov
A service of the U.S. National Institutes of Health

ClinicalTrials.gov is a registry and results database clinical studies of human participants conducted at clinical studies and about this site, including relevant

Find Studies ▾ About Clinical Studies ▾ Submit Studies ▾ Resources ▾ About This Site ▾

ClinicalTrials.gov currently lists **153,617 studies** with locations in all 50 states and in **185 countries**.

14th April 2015: The WHO issues public statement calling for the disclosure of results from clinical trials for medical products, whatever the result.

- Learn about clinical studies
- Learn more...
- About the results database
- Learn more...
- FDAAA 801 Requirements
- Learn more...



OpenTrials

All the Data, on All the Trials, Linked

Improving conduct and reporting



Enhancing the **QUALITY** and **Transparency** Of health Research



Visit the EQUATOR
Spanish Website

- Home
- Library
- Toolkits
- Courses & events
- News
- Blog
- About us
- Contact

Essential resources for writing and publishing health research



Library for health research reporting

The Library contains a comprehensive searchable database of reporting guidelines and also links to other resources relevant to research reporting.



Search for reporting guidelines



Not sure which reporting guideline to use?



Reporting guidelines under development



Visit the library for more resources



Reporting guidelines for main study types

| | | | |
|---|-------------------------|----------------------------|-----------------------|
| Randomised trials | CONSORT | Extensions | Other |
| Observational studies | STROBE | Extensions | Other |
| Systematic reviews | PRISMA | Extensions | Other |
| Case reports | CARE | | Other |
| Qualitative research | SRQR | COREQ | Other |
| Diagnostic / prognostic studies | STARD | TRIPOD | Other |
| Quality improvement studies | SQUIRE | | Other |
| Economic evaluations | CHEERS | | Other |
| Animal pre-clinical studies | ARRIVE | | Other |
| Study protocols | SPIRIT | PRISMA-P | Other |

[See all 256 reporting guidelines](#)



[Give a talk about research publication and reporting guidelines – slides available here](#)



Toolkits

The EQUATOR Network works to improve the reliability and value of medical research literature by promoting transparent and accurate reporting of research studies.

Our Toolkits support different user groups, including:

Authors

EQUATOR highlights

3/03/2015 - [Unique new EQUATOR course for health researchers](#)



UK EQUATOR Centre Publication School, 6th-10th July 2015, St Anne's College, Oxford UK Fit for purpose: The secrets of success in writing, publishing, and disseminating research articles It is a truth universally acknowledged that a large number of published

News

[BioMed Central to publish new journal: Research Integrity and Peer Review](#)
2/04/2015

[DIET@NET partnership on a quest to improve the quality and comparability of dietary data in epidemiological and clinical studies](#)
18/03/2015

[Fit for purpose? The case for structured reporting of methods and results in research articles](#)

In the beginning there was...



CONSORT

TRANSPARENT REPORTING of TRIALS

Lista de informações CONSORT 2010 para incluir no relatório de um estudo randomizado

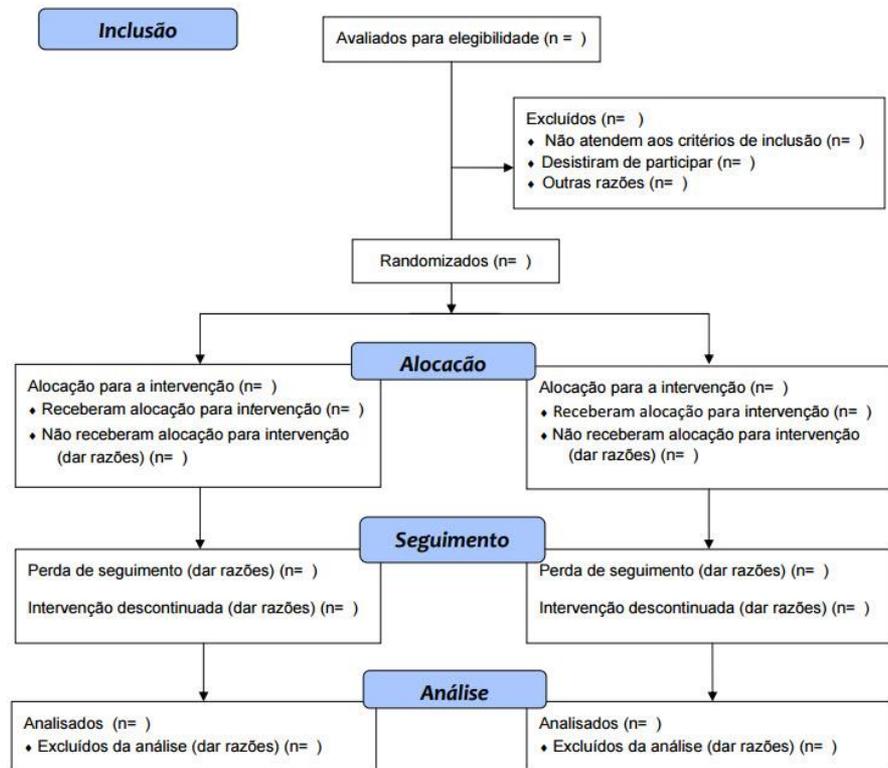
| Seção/Tópico | Item No | Itens da Lista | Relatado na pg No |
|--|---------|--|-------------------|
| Título e Resumo | | | |
| | 1a | Identificar no título como um estudo clínico randomizado | _____ |
| | 1b | Resumo estruturado de um desenho de estudo, métodos, resultados e conclusões para orientação específica, consulte CONSORT para resumos | _____ |
| Introdução | | | |
| Fundamentação e objetivos | | | |
| | 2a | Fundamentação científica e explicação do raciocínio | _____ |
| | 2b | Objetivos específicos ou hipóteses | _____ |
| Métodos | | | |
| Desenho do estudo | | | |
| | 3a | Descrição do estudo clínico (como paralelo, factorial) incluindo a taxa de alocação | _____ |
| | 3b | Alterações importantes nos métodos após ter iniciado o estudo clínico (como critérios de elegibilidade), com as razões | _____ |
| Participantes | | | |
| | 4a | Critérios de elegibilidade para participantes | _____ |
| | 4b | Informações e locais de onde foram coletados os dados | _____ |
| Intervenções | | | |
| | 5 | As intervenções de cada grupo com detalhes suficientes que permitam a replicação, incluindo como e quando eles foram realmente administrados | _____ |
| Desfechos | | | |
| | 6a | Medidas completamente pré-especificadas definidas de desfechos primários e secundários, incluindo como e quando elas foram avaliadas | _____ |
| | 6b | Quaisquer alterações nos desfechos após o estudo clínico ter sido iniciado, com as razões | _____ |
| Tamanho da amostra | | | |
| | 7a | Como foi determinado o tamanho da amostra | _____ |
| | 7b | Quando aplicável, deve haver uma explicação de qualquer análise de interim e diretrizes de encerramento | _____ |
| Randomização: | | | |
| Seqüência geração | | | |
| | 8a | Método utilizado para geração de seqüência randomizada de alocação | _____ |
| | 8b | Tipos de randomização, detalhes de qualquer restrição (tais como randomização por blocos e tamanho do bloco) | _____ |
| Alocação mecanismo de ocultação | | | |
| | 9 | Mecanismo utilizado para implementar a seqüência de alocação randomizada (como recipientes numerados seqüencialmente), descrevendo os passos seguidos para a ocultação da seqüência até as intervenções serem atribuídas | _____ |

Lista de informações CONSORT 2010

Página



Fluxograma CONSORT 2010



The EQUATOR Network

- Launched in June 2008
- Primary goal: to improve reliability and value of medical research literature by promoting good reporting of research which is

Accurate
Complete
Transparent



- Primary focus: leading and supporting initiatives to facilitate the use of Reporting Guidelines
- Supports researchers, editors, peer reviewers (everyone involved in health research and its publication) in responsible publication of research

Finding the right reporting guidelines



Reporting guidelines for main study types

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| Economic evaluations | CHEERS | |
| Animal pre-clinical studies | ARRIVE | |
| Study protocols | SPEAR | |



271 published reporting guidelines (including extensions)

Over 1000 visitors per day to the website

Search for reporting guidelines



Browse for reporting guidelines by selecting one or more of these drop-downs:

Study type

Please select... ▼

and

Clinical area

Please select... ▼

and

Section of report

Please select... ▼

Or search with free text

patient involvement

Search Reporting Guidelines

[Start again](#) | [Help](#)

EQUATOR courses and events

2015 REWARD | EQUATOR Conference

Increasing value and reducing waste in biomedical research

Confirmed speakers:

Prof Doug Altman | Prof Rustam Al-Shahi Salman
 Sir Iain Chalmers | Dr An-Wen Chan | Prof Paul Glasziou
 Dr Trish Groves | Prof John Ioannidis | Prof Frank Miedema
 Dr David Moher | Prof Andrew Morris | Dr Janet Wisely



Including the EQUATOR Annual Lecture presented by Dr Luis Gabriel Cuervo
 Launched by Jamie Hepburn, Minister for Sport Health Improvement and Mental Health, The Scottish Government

We invite health research scientists and clinicians, journal editors and peer reviewers, publishers, regulators, research funders and other professionals involved in research education, research governance and the publication of medical research.

Conference focus

- Findings and recommendations from The REduce research Waste And Reward Diligence (REWARD) group's Increasing Value, Reducing Waste series published in *The Lancet* in 2014
- Progress made by researchers, funders, regulators, publishers, industry, and research users against the REWARD recommendations
- Perspectives of key players involved in initiatives to improve research
- Development and endorsement of a consensus statement
- Action plan for accelerating progress against the REWARD recommendations

28-30 September 2015

John McIntyre Centre
 18 Holyrood Park Road,
 Edinburgh, EH16 5AY

Abstract deadline: 31 May
 Early bird registration 'til 5 July

With thanks to our supporters:



REWARD <http://researchwaste.net/research-waste-equator-conference/>



UK EQUATOR Centre

Publication School

6-10 July 2015
 St Anne's College, Oxford

The secrets of success in writing and publishing research articles

Week-long residential course in heart of beautiful and historic Oxford

Features lectures and many practical sessions including:

- Writing the key sections of your research article
- Effective use of Reporting Guidelines including, CONSORT, STROBE and PRISMA
- Targeting the right journal for your article
- Peer review
- Communication with the public and the media

Course tutors include:

Dr Elizabeth Wager, Dr Iveta Simera, and Professor Doug Altman

Book direct via



For more details about the course see the EQUATOR website

www.equator-network.org
 caroline.struthers@csm.ox.ac.uk



The EQUATOR Network | Enhancing the QUALITY and Transparency Of health Research
www.equator-network.org

EQUATOR toolkits



Authors

Information and resources for authors



Editors

Information and resources for editors and peer reviewers



Developers

Information and resources for guideline developers



Librarians

Information and resources for librarians



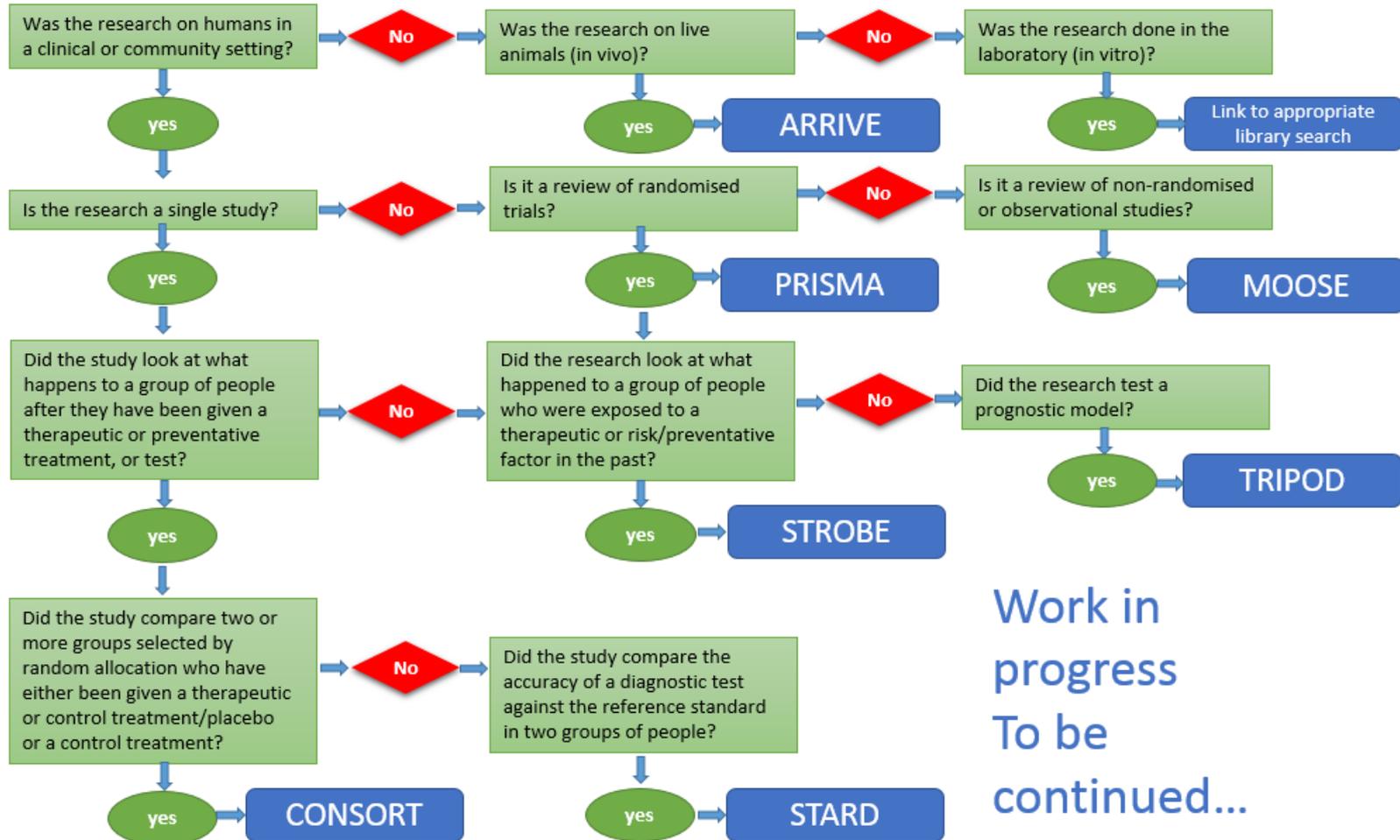
Teachers

Information and resources for teachers

EQUATOR campaigns

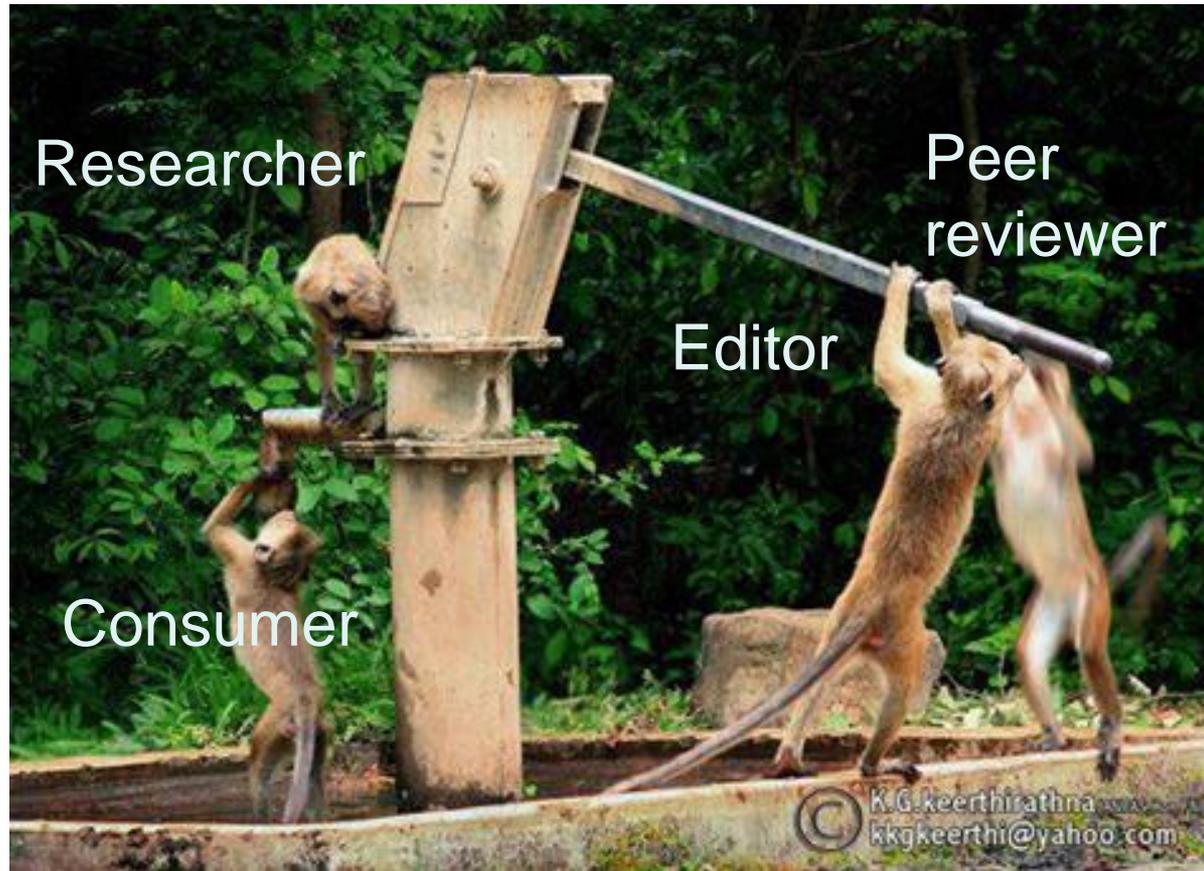
GoodRepos ✓ **ts**

EQUATOR tools

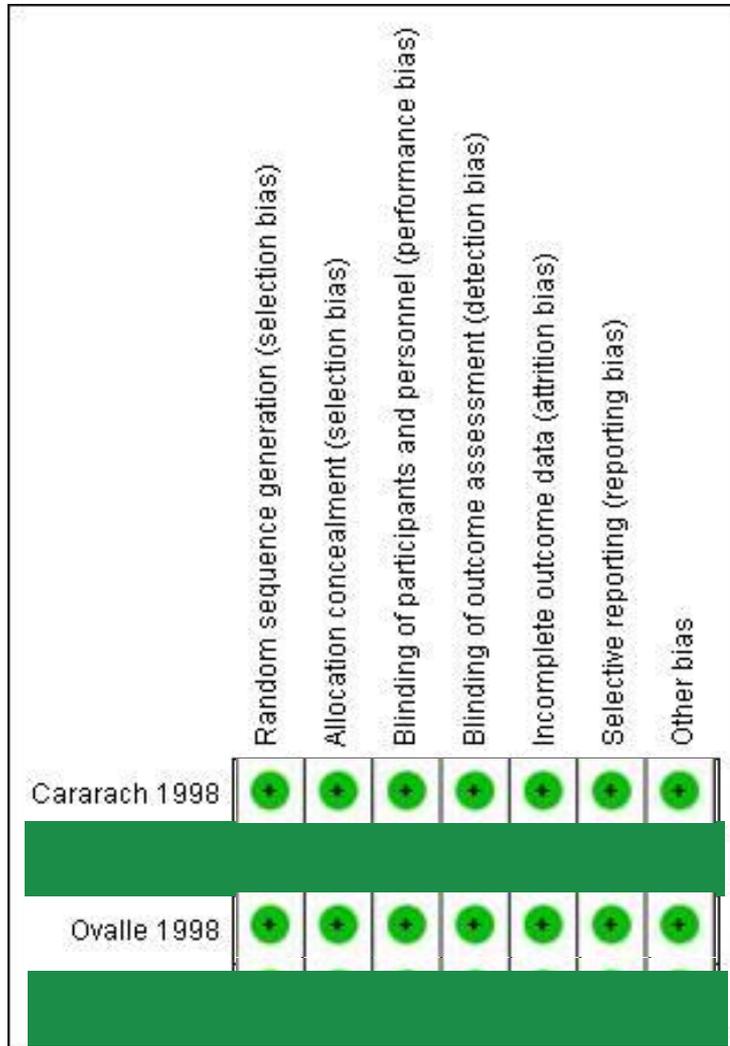


Work in progress
To be continued...

Research publication is a team effort



Measuring impact



Cochrane Review 2014 (four trials)

Because we do not know enough about side-effects and because we did not find strong evidence of benefit from antibiotics, they should not be routinely used for pregnant women with ruptured membranes prior to labour at term, unless a woman shows signs of infection.

Cochrane Review 2002 (two trials)

The review of trials found that routine antibiotics for term PROM reduced the risk of infection of the uterus for the pregnant woman.

Obrigado

