







# Strengthening the Evidence in Exercise Sciences Initiative (The SEES Initiative):

a prospective project based on openness, surveillance, and feedback

Slides & Materials



osf.io/ntw7d

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#### Conflicts of interests

- UFRGS / HCPA
- I have delivered paid courses of systematic review with meta-analysis (SRMA)

### "We're standing on the shoulders of giants"



Accessed from http://www.consort-statement.org/about-consort/the-consort-group

PLOS MEDICINE

## Epidemiology and Reporting Characteristics of Systematic Reviews

David Moher<sup>1,2,3\*</sup>, Jennifer Tetzlaff<sup>1</sup>, Andrea C. Tricco<sup>1,4</sup>, Margaret Sampson<sup>1</sup>, Douglas G. Altman<sup>5</sup>



RESEARCH ARTICLE

Epidemiology and Reporting Characteristics of Systematic Reviews of Biomedical Research: A Cross-Sectional Study

Matthew J. Page<sup>1,2</sup>, Larissa Shamseer<sup>3,4</sup>, Douglas G. Altman<sup>5</sup>, Jennifer Tetzlaff<sup>3</sup>, Margaret Sampson<sup>6</sup>, Andrea C. Tricco<sup>7,3</sup>, Ferrán Catalá-López<sup>3,5</sup>, Lun Li<sup>10</sup>, Emma K. Reid<sup>11</sup>, Rafael Sarkis-Onofre<sup>12</sup>, David Moher<sup>3,4</sup>



#### RESEARCH

The quality of reports of randomised trials in 2000 and 2006: comparative study of articles indexed in PubMed

Sally Hopewell, senior research fellow, Susan Dutton, senior medical statistician, An-Wen Chan, assistant professor, Altman, director

"There is a wealth of evidence that key information is commonly missing from published reports of trials."

Douglas Altman. Trials, 2015, 16:53

## Epidemiology and Reporting Characteristics of Systematic Reviews

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#### RESEARCH

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### We need to urgently prioritise implementation

### The SEES Initiative

#### Vision

Learning, monitoring and promoting recommended practices is as important as the recommendation itself.

#### Design

Collaborative nonprofit initiative for assessment of published research and dissemination of recommended practices.

#### **Targeted public**

Researchers and journal editors in the field of exercise science.

#### **Benchmarks**

**COMPare Trials; Curate Science; Reforms in Psychology.** 

### The SEES Initiative: what, how and why

### Systematic surveillance of published evidence

Monthly searches in previously selected journals

9 field-journals +

5 general medicine

2018 Overview

lively

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Monthly searches in previously selected journals



30+ items assessed for SRMAs and RCTs

9 field-journals

5 general medicine

2018 Overview

PRISMA, ROBIS and AMSTAR-2

CONSORT and TIDieR

lively

implementable and scalable

### The SEES Initiative: what, how and why

### Systematic surveillance of published evidence

Monthly searches in previously selected journals



30+ items assessed for SRMAs and RCTs



Dynamic and open strategy for dissemination

9 field-journals

5 general medicine

2018 Overview

PRISMA, ROBIS and AMSTAR-2

CONSORT and TIDieR



Email to authors and editors

Website and OSF

lively

implementable and scalable

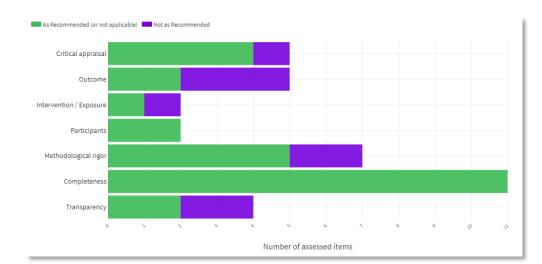
feedback & openness

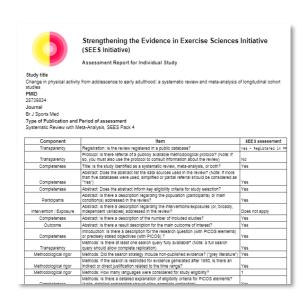
### Our outputs

#### Table of studies (monthly packs)

Search									
PMID	Title	Overall balance	Transparency	Completeness	Methodological rigor	Participants	Intervention / Exposure	Outcome	Critical appraisal
28739834	Change in physical activity from adolescence to early adulthood: a systematic review and meta-analysis of longitudinal cohort studies	!	Average	High	Average	Adequate	Incomplete	Low	High

#### Study level





### Are we working on the right problem?

#### Research: increasing value, reducing waste 5



# Reducing waste from incomplete or unusable reports of biomedical research

Paul Glasziou, Douglas G Altman, Patrick Bossuyt, Isabelle Boutron, Mike Clarke, Steven Julious, Susan Michie, David Moher, Elizabeth Wager

#### Recommendations

- 1 Funders and research institutions must shift research regulations and rewards to align with better and more complete reporting
  - Monitoring—when assessing research (or researchers), funders and research institutions should consider the accessibility of research protocols, study materials, study data, and their use by others

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Slides, SEES Protocol & Materials



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www.sees-initiative.org

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